

Messages Reference



Messages Reference

te: pre using this information ices sections.	and the product it sup	ports, read the info	mation in the Safet	y and environmen	tal notices

This edition replaces GC26-7682-03 and all previous editions of GC26-7682.

About messages

Message types and organization.

Three types of messages are issued to you from the user interfaces and supporting software:

- Informational messages are identified by the letter "I" at the end of the message identifier. They provide information about activities as they take place. For instance, an informational message might report that a volume was successfully created. No user action is necessary.
- Warning messages are identified by the letter "W" at the end of the message identifier. They warn that activities might have consequences that you do not anticipate. Warning messages normally provide the opportunity to continue an activity or to cancel it.
- Error messages are identified by the letter "E" at the end of the message identifier. They indicate that an error has occurred. Refer to the explanations and recommended actions in this document to resolve the problem.

The messages in this document are grouped by the reporting interface or software:

- **Framework** message identifiers are prefixed by the letters "CMMC" and "CMUF". The framework is the basic software that supports your user interface.
- **Command-line interface** message identifiers are prefixed by the letters "CMUC"and "CMUD".
- **DS Storage manager** message identifiers are prefixed by the letters "CMUG", "CMUI", "CMUL", "CMUR"and "CMUS".
- Storage management console server message identifiers are prefixed by the letters "CMUN".

Note: OpenVMS systems display framework and command-line interface message identifiers prefixed by the letters "IBMDSCLI_".

Safety and environmental notices

This section contains information about safety notices that are used in this guide and environmental notices for this product.

Safety notices

Use this process to find information about safety notices.

To find the translated text for a danger or caution notice:

 Look for the identification number at the end of each danger notice or each caution notice. In the following examples, the numbers 1000 and 1001 are the identification numbers.

DANGER

A danger notice indicates the presence of a hazard that has the potential of causing death or serious personal injury.

1000

CAUTION:

A caution notice indicates the presence of a hazard that has the potential of causing moderate or minor personal injury.

1001

2. Find the number that matches in the *IBM TotalStorage Solutions Safety Notices* for *IBM Versatile Storage Server and IBM TotalStorage Enterprise Storage* Server, GC26-7229.

Environmental notices

This section identifies the environmental guidelines that pertain to this product.

Product recycling

This unit contains recyclable materials.

Recycle these materials at your local recycling sites. Recycle the materials according to local regulations. In some areas, IBM provides a product take-back program that ensures proper handling of the product. Contact your IBM representative for more information.

Disposing of products

This topic contains information about how to dispose of products.

This unit might contain batteries. Remove and discard these batteries, or recycle them, according to local regulations.

Conventions used in this guide

The following typefaces are used to show emphasis:

boldface

Text in **boldface** represents menu items and lowercase or mixed-case command names.

italics Text in italics is used to emphasize a word. In command syntax, it is used for variables for which you supply actual values.

monospace

Text in monospace identifies the data or commands that you type, samples of command output, or examples of program code or messages from the system.

Related information

The tables in this section list and describe the following publications:

- The publications that make up the IBM[®] TotalStorage[™] DS6000 series library
- · Other IBM publications that relate to the DS6000 series
- Non-IBM publications that relate to the DS6000 series

See "Ordering IBM publications" on page xii for information about how to order publications in the IBM TotalStorage DS6000 series publication library. See "How to send your comments" on page xiii for information about how to send comments about the publications.

DS6000 series library

These customer publications make up the DS6000 series library.

Unless otherwise noted, these publications are available in Adobe portable document format (PDF) on a compact disc (CD) that comes with the storage unit. If you need additional copies of this CD, the order number is SK2T-8803. These publications are also available as PDF files by clicking on the **Documentation link** on the following Web site:

http://www-1.ibm.com/servers/storage/support/disk/ds6800/index.html

See "Ordering IBM publications" on page xii for information about ordering these and other IBM publications.

Title	Description	Order Number
IBM® TotalStorage® DS: Command-Line Interface User's Guide	This guide describes the commands that you can use from the command-line interface (CLI) for managing your DS6000 configuration and Copy Services relationships. The CLI application provides a set of commands that you can use to write customized scripts for a host system. The scripts initiate predefined tasks in a Copy Services server application. You can use the CLI commands to indirectly control Remote Mirror and Copy and FlashCopy [®] configuration tasks within a Copy Services server group.	GC26-7681 (See Note.)
IBM TotalStorage DS6000: Host Systems Attachment Guide	This guide provides guidelines for attaching the DS6000 to your host system and for migrating to fibre-channel attachment from a small computer system interface.	GC26-7680 (See Note.)
IBM TotalStorage DS6000: Introduction and Planning Guide	This guide introduces the DS6000 product and lists the features you can order. It also provides guidelines for planning the installation and configuration of the storage unit.	GC26-7679

Title	Description	Order Number
IBM TotalStorage Multipath Subsystem Device Driver User's Guide	This publication describes how to use the IBM Subsystem Device Driver (SDD) on open-systems hosts to enhance performance and availability on the DS6000. SDD creates redundant paths for shared logical unit numbers. SDD permits applications to run without interruption when path errors occur. It balances the workload across paths, and it transparently integrates with applications.	SC30-4096
IBM TotalStorage DS Application Programming Interface Reference	This publication provides reference information for the IBM TotalStorage DS application programming interface (API) and provides instructions for installing the Common Information Model Agent, which implements the API.	GC35-0493
IBM TotalStorage DS6000 Messages Reference	This publication provides explanations of error, information, and warning messages that are issued from the DS6000 user interfaces.	GC26-7682
IBM TotalStorage DS6000 Installation, Troubleshooting, and Recovery Guide	This publication provides reference information for installing and troubleshooting the DS6000. It also discusses disaster recovery using Copy Services.	GC26-7678
IBM TotalStorage DS6000 Quick Start Card	This is a quick start guide for use in installing and configuring the DS6000 series.	GC26-7685

Note: No hardcopy book is produced for this publication. However, a PDF file is available from the following Web site: http://www-1.ibm.com/servers/storage/support/disk/ds6800/index.html

Other IBM publications

Other IBM publications contain additional information that is related to the DS product library.

The following list is divided into categories to help you find publications that are related to specific topics. Some of the publications are listed under more than one category. See "Ordering IBM publications" on page xii for information about ordering these and other IBM publications.

Title	Description	Order Number
	Data-copy services	
z/OS DFSMS Advanced Copy Services	This publication helps you understand and use IBM Advanced Copy Services functions. It describes three dynamic copy functions and several point-in-time copy functions. These functions provide backup and recovery of data if a disaster occurs to your data center. The dynamic copy functions are peer-to-peer remote copy, extended remote copy, and coupled extended remote copy. Collectively, these functions are known as remote copy. FlashCopy, SnapShot, and concurrent copy are the point-in-time copy functions.	SC35-0428
IBM Enterprise Storage Server	This publication, from the IBM International Technical Support Organization, introduces the Enterprise Storage Server and provides an understanding of its benefits. It also describes in detail the architecture, hardware, and functions, including the advanced copy functions, of the Enterprise Storage Server.	SG24-5465

Title	Description	Order Number
Implementing Copy Services 0n S/390	This publication, from the IBM International Technical Support Organization, tells you how to install, customize, and configure Copy Services on an Enterprise Storage Server that is attached to an S/390 or zSeries host system. Copy Services functions include peer-to-peer remote copy, extended remote copy, FlashCopy [®] , and concurrent copy. This publication describes the functions, prerequisites, and corequisites and describes how to implement each function into your environment.	
IBM TotalStorage ESS Implementing Copy Services in an Open Environment	This publication, from the IBM International Technical Support Organization, tells you how to install, customize, and configure Copy Services on UNIX, Windows NT®, Windows 2000, Sun Solaris, HP-UX, Tru64, OpenVMS, and iSeries host systems. The Copy Services functions that are described include peer-to-peer remote copy and FlashCopy. This publication describes the functions and shows you how to implement them into your environment. It also shows you how to implement these functions in a high-availability cluster multiprocessing environment.	SG24-5757
	Fibre channel	
Fibre Channel Connection (FICON) I/O Interface: Physical Layer	This publication provides information about the fibre-channel I/O interface. This book is also available as a PDF file from the following Web site: http://www.ibm.com/servers/resourcelink/	SA24-7172
Fibre Transport Services (FTS): Physical and Configuration Planning Guide	This publication provides information about fibre-optic and ESCON-trunking systems.	GA22-7234
IBM SAN Fibre Channel Switch: 2109 Model S08 Installation and Service Guide	This guide describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S08.	SC26-7350
IBM SAN Fibre Channel Switch: 2109 Model S08 User's Guide	This guide describes the IBM SAN Fibre Channel Switch and the IBM TotalStorage ESS Specialist. It provides information about the commands and how to manage the switch with Telnet and the Simple Network Management Protocol.	SC26-7349
IBM SAN Fibre Channel Switch: 2109 Model S16 Installation and Service Guide	This publication describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S16. It is intended for trained service representatives and service providers.	SC26-7352
IBM SAN Fibre Channel Switch: 2109 Model S16 User's Guide	This guide introduces the IBM SAN Fibre Channel Switch 2109 Model S16 and tells you how to manage and monitor the switch using zoning and how to manage the switch remotely.	SC26-7351
Implementing Fibre Channel Attachment on the ESS	This publication, from the IBM International Technical Support Organization, helps you install, tailor, and configure fibre-channel attachment of open-systems hosts to the Enterprise Storage Server. It provides you with a broad understanding of the procedures that are involved and describes the prerequisites and requirements. It also shows you how to implement fibre-channel attachment.	SG24-6113
	Open-systems hosts	

Title	Description	Order Number
ESS Solutions for Open Systems Storage: Compaq AlphaServer, HP, and Sun	This publication, from the IBM International Technical Support Organization, helps you install, tailor, and configure the Enterprise Storage Server when you attach Compaq AlphaServer (running Tru64 UNIX), HP, and Sun hosts. This book does not cover Compaq AlphaServer that is running the OpenVMS operating system. This book also focuses on the settings that are required to give optimal performance and on the settings for device driver levels. This book is for the experienced UNIX professional who has a broad understanding of storage concepts.	SG24-6119
IBM TotalStorage ESS Implementing Copy Services in an Open Environment	This publication, from the IBM International Technical Support Organization, tells you how to install, customize, and configure Copy Services on UNIX or Windows 2000 host systems. The Copy Services functions that are described include peer-to-peer remote copy and FlashCopy. This publication describes the functions and shows you how to implement them into your environment. It also shows you how to implement these functions in a high-availability cluster multiprocessing environment.	SG24-5757
Implementing Fibre Channel Attachment on the ESS	This publication, from the IBM International Technical Support Organization, helps you install, tailor, and configure fibre-channel attachment of open-systems hosts to the Enterprise Storage Server. It gives you a broad understanding of the procedures that are involved and describes the prerequisites and requirements. It also shows you how to implement fibre-channel attachment.	SG24-6113
	S/390 and zSeries hosts	
Device Support Facilities: User's Guide and Reference	This publication describes the IBM Device Support Facilities (ICKDSF) product that are used with IBM direct access storage device (DASD) subsystems. ICKDSF is a program that you can use to perform functions that are needed for the installation, the use, and the maintenance of IBM DASD. You can also use it to perform service functions, error detection, and media maintenance.	GC35-0033
z/OS Advanced Copy Services	This publication helps you understand and use IBM Advanced Copy Services functions. It describes three dynamic copy functions and several point-in-time copy functions. These functions provide backup and recovery of data if a disaster occurs to your data center. The dynamic copy functions are peer-to-peer remote copy, extended remote copy, and coupled extended remote copy. Collectively, these functions are known as remote copy. FlashCopy, SnapShot, and concurrent copy are the point-in-time copy functions.	SC35-0428
DFSMS/MVS V1: Remote Copy Guide and Reference	This publication provides guidelines for using remote copy functions with S/390 and zSeries hosts.	SC35-0169
Fibre Transport Services (FTS): Physical and Configuration Planning Guide	This publication provides information about fibre-optic and ESCON-trunking systems.	GA22-7234
Implementing ESS Copy Services on S/390	This publication, from the IBM International Technical Support Organization, tells you how to install, customize, and configure Copy Services on an Enterprise Storage Server that is attached to an S/390 or zSeries host system. Copy Services functions include peer-to-peer remote copy, extended remote copy, FlashCopy, and concurrent copy. This publication describes the functions, prerequisites, and corequisites and describes how to implement each function into your environment.	SG24-5680

Title	Description	Order Number
ES/9000, ES/3090: IOCP User Guide Volume A04	This publication describes the Input/Output Configuration Program that supports the Enterprise Systems Connection (ESCON) architecture. It describes how to define, install, and configure the channels or channel paths, control units, and I/O devices on the ES/9000 processors and the IBM ES/3090 Processor Complex.	
IOCP User's Guide, IBM e(logo)server zSeries 800 and 900	This publication describes the Input/Output Configuration Program that supports the zSeries 800 and 900 servers. This publication is available in PDF format by accessing ResourceLink at the following Web site:	
IOCP User's Guide, IBM e(logo)server zSeries	www.ibm.com/servers/resourcelink/ This publication describes the Input/Output Configuration Program that supports the zSeries server. This publication is available in PDF format by accessing ResourceLink at the following Web site: www.ibm.com/servers/resourcelink/	SB10-7037
S/390: Input/Output Configuration Program User's Guide and ESCON Channel-to-Channel Reference	This publication describes the Input/Output Configuration Program that supports ESCON architecture and the ESCON multiple image facility.	
IBM z/OS Hardware Configuration Definition User's Guide	This guide provides conceptual and procedural information to help you use the z/OS Hardware Configuration Definition (HCD) application. It also explains: • How to migrate existing IOCP/MVSCP definitions • How to use HCD to dynamically activate a new configuration • How to resolve problems in conjunction with MVS/ESA HCD	SC33-7988
OS/390: Hardware Configuration Definition User's Guide	This guide provides detailed information about the input/output definition file and about how to configure parallel access volumes. This guide discusses how to use Hardware Configuration Definition for both OS/390 [®] and z/OS V1R1.	
OS/390 V2R10.0: MVS System Messages Volume 1 (ABA - ASA)	This publication lists OS/390 MVS [™] system messages ABA to ASA.	GC28-1784
Using IBM 3390 Direct Access Storage in a VM Environment	This publication provides device-specific information for the various models of the 3390 and describes methods you can use to manage storage efficiently using the VM operating system. It provides guidance on managing system performance, availability, and space through effective use of the direct access storage subsystem.	
Using IBM 3390 Direct Access Storage in a VSE Environment	This publication helps you use the 3390 in a VSE environment. It includes planning information for adding new 3390 units and instructions for installing devices, migrating data, and performing ongoing storage management activities.	
Using IBM 3390 Direct Access Storage in an MVS Environment	This publication helps you use the 3390 in an MVS environment. It includes device-specific information for the various models of the 3390 and illustrates techniques for more efficient storage management. It also offers guidance on managing system performance, availability, and space utilization through effective use of the direct access storage subsystem.	GC26-4574
z/Architecture Principles of Operation	This publication provides a detailed definition of the z/Architecture [™] . It is written as a reference for use primarily by assembler language programmers and describes each function at the level of detail needed to prepare an assembler language program that relies on a particular function. However, anyone concerned with the functional details of z/Architecture will find this publication useful.	SA22-7832

Title	Description	Order Number
	SAN	
IBM OS/390 Hardware Configuration Definition User's Guide	This guide explains how to use the Hardware Configuration Data application to perform the following tasks: Define new hardware configurations View and modify existing hardware configurations Activate configurations Query supported hardware Maintain input/output definition files (IODFs) Compare two IODFs or compare an IODF with an actual configuration Print reports of configurations Create graphical reports of a configuration Migrate existing configuration data	SC28-1848
IBM SAN Fibre Channel Switch: 2109 Model S08 Installation and Service Guide	This guide describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S08.	SC26-7350
IBM SAN Fibre Channel Switch: 2109 Model S08 User's Guide	This guide describes the IBM SAN Fibre Channel Switch and the IBM TotalStorage ESS Specialist. It provides information about the commands and how to manage the switch with Telnet and the Simple Network Management Protocol (SNMP).	SC26-7349
IBM SAN Fibre Channel Switch: 2109 Model S16 Installation and Service Guide	This publication describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S16. It is intended for trained service representatives and service providers.	SC26-7352
IBM SAN Fibre Channel Switch: 2109 Model S16 User's Guide	This guide introduces the IBM SAN Fibre Channel Switch 2109 Model S16 and tells you how to manage and monitor the switch using zoning and how to manage the switch remotely.	SC26-7351
Implementing Fibre Channel Attachment on the ESS	This publication, from the IBM International Technical Support Organization, helps you install, tailor, and configure fibre-channel attachment of open-systems hosts to the Enterprise Storage Server. It provides you with a broad understanding of the procedures that are involved and describes the prerequisites and requirements. It also shows you how to implement fibre-channel attachment.	SG24-6113
	Storage management	
Device Support Facilities: User's Guide and Reference	This publication describes the IBM Device Support Facilities (ICKDSF) product used with IBM direct access storage device (DASD) subsystems. ICKDSF is a program that you can use to perform functions that are needed for the installation, the use, and the maintenance of IBM DASD. You can also use it to perform service functions, error detection, and media maintenance.	GC35-0033
IBM TotalStorage Solutions Handbook	This handbook, from the IBM International Technical Support Organization, helps you understand what makes up enterprise storage management. The concepts include the key technologies that you must know and the IBM subsystems, software, and solutions that are available today. It also provides guidelines for implementing various enterprise storage administration tasks so that you can establish your own enterprise storage management environment.	SG24-5250

Ordering IBM publications

This section tells you how to order copies of IBM publications and how to set up a profile to receive notifications about new or changed publications.

IBM publications center

The publications center is a worldwide central repository for IBM product publications and marketing material.

The IBM publications center offers customized search functions to help you find the publications that you need. Some publications are available for you to view or download free of charge. You can also order publications. The publications center displays prices in your local currency. You can access the IBM publications center through the following Web site:

http://www.ibm.com/shop/publications/order

Publications notification system

The IBM publications center Web site offers you a notification system for IBM publications.

If you register, you can create your own profile of publications that interest you. The publications notification system sends you a daily e-mail that contains information about new or revised publications that are based on your profile.

If you want to subscribe, you can access the publications notification system from the IBM publications center at the following Web site:

http://www.ibm.com/shop/publications/order

Web sites

The following Web sites provide information about the IBM TotalStorage DS6000 series and other IBM storage products.

Type of Storage Information	Web Site
Concurrent Copy for S/390 and zSeries host systems	http://www.storage.ibm.com/software/sms/sdm/
Copy Services command-line interface (CLI)	http://www-1.ibm.com/servers/storage/support/software/cscli.html
DS6000 series publications	http://www-1.ibm.com/servers/storage/support/disk/ds6800/index.html
	Click Documentation.
FlashCopy for S/390 and zSeries host systems	http://www.storage.ibm.com/software/sms/sdm/
Host system models, operating systems, and adapters that the storage unit supports	http://www.ibm.com/servers/storage/disk/ds6000/interop.html Click Interoperability matrix.
IBM Disk Storage Feature Activation (DSFA)	http://www.ibm.com/storage/dsfa
IBM storage products	http://www.storage.ibm.com/
IBM TotalStorage DS6000 series	http://www-1.ibm.com/servers/storage/disk/ds6000
IBM version of the Java (JRE) that is often required for IBM products	http://www-106.ibm.com/developerworks/java/jdk/

Type of Storage Information	Web Site	
Multiple Device Manager (MDM)	http://www.ibm.com/servers/storage/support/	
	Click Storage Virtualization.	
Remote Mirror and Copy (formerly PPRC) for S/390 and zSeries host systems	http://www.storage.ibm.com/software/sms/sdm/	
SAN fibre channel switches	http://www.ibm.com/storage/fcswitch/	
Storage Area Network Gateway and Router	http://www-1.ibm.com/servers/storage/support/san/index.html	
Subsystem Device Driver (SDD)	http://www-1.ibm.com/servers/storage/support/software/sdd.html	
z/OS Global Mirror (formerly XRC) for S/390 and zSeries host systems	http://www.storage.ibm.com/software/sms/sdm/	

How to send your comments

Your feedback is important to help us provide the highest quality information. If you have any comments about this information or any other DS6000 series documentation, you can submit them in the following ways:

e-mail

Submit your comments electronically to the following e-mail address: starpubs@us.ibm.com

Be sure to include the name and order number of the book and, if applicable, the specific location of the text you are commenting on, such as a page number or table number.

Mail

Fill out the Readers' Comments form (RCF) at the back of this book. Return it by mail or give it to an IBM representative. If the RCF has been removed, you can address your comments to:

International Business Machines Corporation RCF Processing Department Department 61C 9032 South Rita Road TUCSON AZ 85775-4401

Summary of Changes for GC26-7682-04 IBM TotalStorage DS6000

This document contains terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change. This summary of changes describes new functions that have been added to this release.

New Information

The following messages have been added in this edition.

Table 1. Command-line interface messages

- CMUC00216I
- CMUD00017E
- CMUC00217E
- CMUC00218E
- CMUC00219E
- CMUC00220E

Table 2. DS Storage Manager messages

- CMUG00134E
- CMUI0073E
- CMUG00135E
- CMUI0074E
- CMUG00136E
- CMUI0075E
- CMUG00137E
- CMUI0076E
- CMUG00138E
- CMUG00139E
- CMUG00140E

Table 3. Storage management console server messages

- CMUN02389ECMUN02390E
- CMUN02398E
- CMUN02406E
- CMUN02434E

- CMUN02391E
- CMUN02399ECMUN02400E
- CMUN02427ECMUN02428E
- CMUN02435ECMUN02436E

- CMUN02392ECMUN02393E
- CMUN02401E
- CMUN02429E
- CMUN02437ECMUN02438E

- CMUN02394E
- CMUN02403E

CMUN02402E

- CMUN02430ECMUN02431E
- CMUN02439E

- CMUN02395ECMUN02396E
- CMUN02404ECMUN02405E
- CMUN02432ECMUN02433E
- CMUN03119ECMUN80025E

CMUN02397E

Changed Information

The following messages have been changed in this edition.

Table 4. Command-line interface messages

CMUC00172I

Table 5. DS Storage Manager messages

- CMUR00001W
- CMUR00002W
- CMUR00003W
- CMUS00030W

Table 6. Storage management console server messages

 CMUN02137E 	 CMUN03051E 	 CMUN03087E 	 CMUN06019E
 CMUN02149E 	 CMUN03052E 	 CMUN03088E 	• CMUN06020E
 CMUN02208E 	 CMUN03065E 	 CMUN06001E 	 CMUN06021E
 CMUN02337E 	 CMUN03066E 	 CMUN06004E 	 CMUN06022E
 CMUN02387E 	 CMUN03067E 	 CMUN06006E 	 CMUN06024E
 CMUN03030E 	 CMUN03070E 	 CMUN06015E 	 CMUN06026E
 CMUN03032E 	 CMUN03078E 	 CMUN06016E 	 CMUN06028E
 CMUN03038E 	 CMUN03079E 	 CMUN06017E 	 CMUN06029E
 CMUN03048E 	 CMUN03083E 	 CMUN06018E 	 CMUN06030E

Deleted Information

No messages have been deleted in this edition.

Moved Information

The following messages have been moved in this edition.

Table 7. Moved messages

Original message identifer	New message identifier
CMUN01003E	CMUN02407E
CMUN01004E	CMUN02408E
CMUN01005E	CMUN02409E
CMUN01006E	CMUN02410E
CMUN01007E	CMUN02411E
CMUN01008E	CMUN02412E
CMUN01009E	CMUN02413E
CMUN01010E	CMUN02414E
CMUN01011E	CMUN02415E
CMUN01013E	CMUN02416E
CMUN01014E	CMUN02417E
CMUN01015E	CMUN02418E
CMUN01016E	CMUN02419E
CMUN01017E	CMUN02420E
CMUN01018E	CMUN02421E
CMUN01019E	CMUN02422E
CMUN01020E	CMUN02423E
CMUN01021E	CMUN02424E

Table 7. Moved messages (continued)

Original message identifer	New message identifier
CMUN01022E	CMUN02425E
CMUN01023E	CMUN02426E
CMUS00030E	CMUS00030W

Chapter 1. Framework messages

Framework messages

These messages are issued by the user interface framework.

CMMCl9001E Command command_name resulted in an internal server error (error number return_code). View the log file for details.

Explanation

An unexpected value was returned for this command.

Action

Run the command again. If the problem persists, contact your service representative.

CMMC190021 Command command name halted.

Explanation

The command **command_name** was unexpectedly halted.

Action

Perform the following actions to resolve the problem.

- 1. View the cluster log to determine if other errors might be causing this error.
- 2. Run the command again.
- 3. If the problem persists, contact your service representative.

CMMCI9003W No object name instances found in the system.

Explanation

You attempted to list all instances of **object_name**. No instances were found.

Action

No action is required.

CMMCl9004E Cannot modify object_type object_name because it does not exist.

Explanation

You are attempting to modify the attributes for the **object_type** named **object_name**, but **object_name** does not exist.

Action

Make sure that the object with the attributes that you are modifying exists.

CMMCI9005I There is nothing to modify.

Explanation

You are attempting to modify the attributes for an object, but the values that you specified are already defined for that object.

Action

If you must modify the attributes for an object, run the command again. Ensure that you are specifying different attribute values.

CMMCI9006E No class_type instances object_name found that match criteria: criteria.

Explanation

You are attempting to list all occurrences of an object, but no instances of the object that meet your search criteria were found.

Action

If the search criteria that you specified was correct, no action is required. Otherwise, attempt to list all occurrences of the object again by specifying different search criteria.

CMMCI9007E object_type object_name does not exist.

Explanation

You are attempting to run a command on an object that does not exist.

Action

Ensure that you are running this command on an existing object.

CMMCI9008I Unsupported command command_name completed successfully. Explanation

The command **command_name** is not a supported command. However, the command did complete successfully.

Action

No action is required.

CMMCl9009E The unsupported $command_name$ command failed with a value $return_code$

Explanation

The command **command_name** is not a supported command. The command did not complete successfully.

Make sure that you are running only supported commands.

CMMCI9010E The command did not complete successfully.

Explanation

The command did not complete successfully.

Action

Verify that you are using the correct syntax. Then run the command again.

CMMCI9013E Command: command_name was not found.

Explanation

You attempted to run a command that does not exist.

Action

Make sure that you run valid administrative command-line interface commands. Enter "help" for a list of available commands.

CMMCI9014E The parameter -parameter_name is not valid.

Explanation

You attempted to run a command, but the parameter that you specified is not valid.

Action

Run the command again, specifying valid parameters. Enter "help command_name" for a list of valid parameters.

CMMCI9015E The value value for parameter -parameter_name is not formatted correctly.

Explanation

The parameter that you specified is not formatted correctly.

Action

Run the command again, specifying parameter values that are formatted correctly. Enter "help **command_name**" for a list of valid parameters.

CMMCI9016E Missing parameter name after -.

Explanation

You specified a dash, but you did not specify a parameter name after the dash.

Run the command again using correct parameters. Enter "help **command_name**" for a list of valid parameters.

CMMCI9017E Parameter parameter_name is already specified. Explanation

You are attempting to specify the same parameter twice on a single command.

Action

Run the command again, specifying the parameter only once. Enter "help **command name**" for a list of valid parameters.

CMMCI9018E Parameter parameter_name is missing a required value. Explanation

The parameter **parameter_name** requires a value.

Action

Run the command again, specifying valid values for all parameters. Enter "help **command_name**" for a list of valid parameters and values.

CMMCI9019E The value for parameter_name: value is not valid. Explanation

The value that you specified for the listed parameter name is not valid.

Action

Run the command again, specifying valid values for all parameters. Enter "help command_name" for a list of valid parameters and values.

CMMCI9021E Command command_name is not formatted correctly. Explanation

The command that you specified is not formatted correctly.

Action

Run the command again, making sure that it is formatted correctly. Enter "help command_name" for the correct format.

CMMCI9022E Missing required parameter: parameter_name. Explanation

The parameter **parameter_name** is required.

Run the command again, specifying all required parameters. Enter "help **command_name**" for a list of valid parameters and values.

CMMCl9023E parameter_name is mutually exclusive of parameter_name

Explanation

You specified two parameters that cannot be used together. You cannot specify both parameters on a single command.

Action

Run the command again, specifying only one of the parameters.

CMMCl9024E value exceeds the maximum allowable value of maximum value for the parameter command name

Explanation

The value that you specified is greater than the maximum value that is allowed for this parameter.

Action

Run the command again, specifying valid values for all parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCl9025E value does not meet the minimum allowable value of minimum_value for the parameter parameter_name

Explanation

The value that you specified is less than the minimum value that is allowed for this parameter.

Action

Run the command again, specifying valid values for all parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9026E Unmatched character_value characters.

Explanation

There are unmatched **character_value** characters in the command that you specified.

Action

Run the command again, making sure that you specify matching **character_value** characters, such as matching quotation marks. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCl9027E Invalid value for parameter_name. The length exceeds maximum_length characters.

Explanation

The length of the value that you specified for this parameter exceeds the maximum length for this value.

Action

Run the command again, making sure that the length of the value that you specify for this parameter is not greater than the maximum length. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9028E The value value specified for parameter parameter_value is not valid.

Explanation

The value that you specified for this parameter is not valid for this parameter.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCI9029E object type object name does not exist.

Explanation

You specified the object **object_type** with the name **object_name**, but it does not exist.

Action

Run the command again, making sure that you specify an existing object. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCl9030E Value value cannot be accepted with any other value for the -parameter_name parameter.

Explanation

You specified multiple values for the parameter **parameter_name**. However, if you specify the parameter value of **value**, it must be the only value that is specified for this parameter.

Action

Run the command again, making sure that you specify valid parameter values. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCI9031E The help page for command command name does not exist. **Explanation**

You requested help for the command command name, but no help exists for this command.

Action

Make sure that you are requesting help for a valid command. Enter "help" for a list of available commands.

CMMCl9032E You must specify parameter parameter_name if you **specify parameter** parameter name

Explanation

If you specify one of these parameters on a command, you must specify both parameters.

Action

Run the command again, making sure that you specify both parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9033E File file name does not exist.

Explanation

The file name that you specified does not exist.

Action

Run the command again, making sure that you specify a valid file name.

CMMCI9034E Parameter parameter name cannot be used in the same command as parameter parameter name.

Explanation

These two parameters cannot be used together. You cannot specify both of them in the same command.

Action

Run the command again, making sure that you specify only one of these parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9035E object type object name already exists.

Explanation

You are attempting to create an object of type object_type by the name object_name, but it already exists.

Make sure that this is the object that you are trying to create. If so, no action is required. If not, run the command again using a new object name.

CMMCI9036E The value value for parameter -parameter_name is already specified.

Explanation

You are attempting to specify the same parameter twice in a single command.

Action

Run the command again, specifying the parameter only once. Enter "help **command name**" for a list of valid parameters.

CMMCI9037E Multiple targets not allowed for command command_name Explanation

You cannot specify multiple targets for this command.

Action

Run the command again, specifying a single target. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCl9038E You cannot specify multiple values when using the $parameter_name$ parameter.

Explanation

You specified multiple values for the parameter **parameter_name**. You can specify only a single value for this parameter.

Action

Run the command again, making sure that you specify valid parameter values. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCl9039E The value value for parameter_name is not valid. It contains unsupported characters.

Explanation

You specified a value for this parameter that contains unsupported characters.

Action

Run the command again, making sure that you specify valid parameter values. Enter "help **command_name**" for a list of valid parameters and parameter values.

CMMCI9040E The value value for the parameter parameter name is not valid. It contains unsupported characters.

Explanation

You specified an object name that contains unsupported characters.

Action

Run the command again, making sure that you specify a valid object name. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9041E The value for parameter name is not valid. You must specify either value1 or value2.

Explanation

You specified a value for this parameter that is not valid. You must specify either value1 or value2.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help command name" for a list of valid parameters and parameter values.

CMMCI9042E The value for the parameter -parameter_name cannot contain a value.

Explanation

You specified a value for this parameter that is not valid.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMCI9043E Number of entries (entries) is exceeded for the -parameter name parameter.

Explanation

You specified too many values for this parameter.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help command name" for a list of valid parameters and parameter values.

CMMCI9044E Entry entry value exceeds the length limit (entry limit) for one item for the -parameter name parameter. **Explanation**

The length of the value that you specified for this parameter is too long.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help command name" for a list of valid parameters and parameter values.

CMMCI9045E The value for -parameter name must be operator the current setting of value.

Explanation

The value that you specified for the listed operator is not valid. The operator explains how value must be changed.

Action

Run the command again, making sure that you specify valid values for all parameters. Enter "help command_name" for a list of valid parameters and parameter values.

CMMC19046E Unrecognized syntax error in command command name **Explanation**

There is a syntax error in the command that you specified.

Action

Run the command again, making sure that you use a valid syntax. Enter "help command name" for the syntax to use.

CMMCI9047E Cannot run command name as a command within the application name application. Tip: Enter "help command name" for more information.

Explanation

You cannot specify the command **command name** within this application.

Action

Enter "help **command name**" for more information about using this command.

CMMCl9048E The date provided: date_value is invalid. Tip: Correct format for the date field is YYYY-MM-DD

Explanation

The value that you entered for the date specifier is invalid.

Action

The format of the date field is YYYY-MM-DD. Check that the value that you entered follows this format and is a valid date.

CMMCl9049E You must specify one flag from the following group when issuing this command: $param_group$.

Explanation

It is required that one of the parameters that is specified in the grouping is provided for this command.

Action

Restate the command with the correct list of required parameters.

CMMCI9050E The "-" option is not valid in interactive mode. Tip: If you intended to use this as a value substitution indicator, you must enter the value.

Explanation

Using the operator to instruct the process to read from stdin while in interactive mode is illegal.

Action

Do not use the stdin read operator. Provide the actual value instead.

CMUF00000E You must enter a user name.

Explanation

You must enter a user name to log into the DS Storage Manager.

Action

Enter a user name, and then resubmit the task.

CMUF00001E You must enter a password.

Explanation

You must enter a password to log into the DS Storage Manager.

Enter a password, and then resubmit the task.

CMUF00002E You must enter a user name and a password.

Explanation

You must enter a user name and a password to log into the DS Storage Manager.

Action

Enter a user name and a password, and then resubmit the task.

CMUF00003E An unexpected error has occurred.

Explanation

An unexpected runtime error has occurred.

Action

Resubmit the task. If the problem persists, contact IBM technical support for assistance.

Chapter 2. DS command-line interface messages

DS CLI messages

These messages are issued by the DS command-line interface.

$\textbf{CMUC000001} \ \textit{COMMAND_INFO} \ \textbf{Extent pool} \ \textit{VALUE_0} \ \textbf{successfully created}.$

Explanation

The extent pool has been created successfully.

Action

None.

CMUC00001I $COMMAND_INFO$ Extent pool $VALUE_\theta$ successfully modified.

Explanation

The extent pool has been modified successfully.

Action

None.

CMUC00002W COMMAND_INFO Are you sure you want to delete extent pool EXTENT POOL ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the extent pool.

Action

Enter Y to delete the extent pool. Enter N to cancel the operation.

CMUC00003I $COMMAND_INFO$ Extent pool $VALUE_\theta$ successfully deleted.

Explanation

The extent pool has been deleted successfully.

Action

None.

CMUC00004I COMMAND_INFO Array VALUE_0 successfully created.

Explanation

The array has been created successfully.

None.

CMUC00005W COMMAND_INFO Are you sure you want to delete array ARRAY ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the array.

Action

Enter \mathbf{Y} to delete the array. Enter \mathbf{N} to cancel the operation.

CMUC000061 COMMAND_INFO Array VALUE_0 successfully deleted.

Explanation

The array has been deleted successfully.

Action

None.

CMUC000071 COMMAND_INFO Rank VALUE_0 successfully created.

Explanation

The rank has been created successfully.

Action

None.

CMUC000081 COMMAND_INFO Rank VALUE_0 successfully modified.

Explanation

The rank has been modified successfully.

Action

None.

CMUC00009W COMMAND_INFO Are you sure you want to delete rank RANK_ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the rank.

Action

Enter Y to delete the rank. Enter N to cancel the operation.

CMUC00010I $COMMAND_INFO$ Rank $VALUE_O$ successfully deleted. NOTE: The rank might still be visible to queries until reformatting completes.

Explanation

The rank has been deleted successfully. However, device reformatting can take up to several hours to complete, depending on the size of the devices. The rank might still be visible in queries until reformatting completes.

Action

None.

CMUC000111 COMMAND INFO I/O Port VALUE 0 successfully configured.

Explanation

The I/O port has been configured successfully.

Action

None.

CMUC00012I *COMMAND_INFO* Host connection *VALUE_0* successfully created.

Explanation

The host connection has been created successfully.

Action

None.

CMUC00013I $COMMAND_INFO$ Host connection $VALUE_O$ successfully modified.

Explanation

The host connection has been modified successfully.

Action

None.

CMUC00014W COMMAND_INFO Are you sure you want to delete host connection HOST CONNECT ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the host connection.

Enter **Y** to delete the host connection. Enter **N** to cancel the operation.

CMUC00015I COMMAND_INFO Host connection VALUE_0 successfully deleted.

Explanation

The host connection has been deleted successfully.

Action

None.

CMUC00016I COMMAND_INFO Port group number PORT_GROUP successfully modified.

Explanation

The port group has been modified successfully.

Action

None.

CMUC00017I COMMAND INFO LCU VALUE 0 successfully created.

Explanation

The logical control unit has been created successfully.

Action

None.

CMUC00018I $COMMAND_INFO$ LCU $VALUE_\theta$ successfully modified.

Explanation

The logical control unit has been modified successfully.

Action

None.

CMUC00019W COMMAND_INFO Are you sure you want to delete LCU LCU ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the logical control unit.

Enter \mathbf{Y} to delete the logical control unit. Enter \mathbf{N} to cancel the operation.

CMUC000201 COMMAND INFO LCU VALUE 0 successfully deleted.

Explanation

The logical control unit has been deleted successfully.

Action

None.

CMUC000211 $COMMAND_INFO$ CKD Volume $VALUE_\theta$ successfully created.

Explanation

The count-key-data volume has been created successfully.

Action

None.

CMUC000221 $COMMAND_INFO$ CKD Volume $VALUE_\theta$ successfully modified.

Explanation

The count-key-data volume has been modified successfully.

Action

None.

CMUC00023W COMMAND_INFO Are you sure you want to delete CKD volume VOLUME ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the count-key-data volume.

Action

Enter Y to delete the volume. Enter N to cancel the operation.

CMUC00024I COMMAND_INFO CKD volume VALUE_0 successfully deleted.

Explanation

The count-key-data volume has been deleted successfully.

Action

CMUC000251 $COMMAND_INFO$ FB volume $VALUE_\theta$ successfully created.

Explanation

The fixed block volume has been created successfully.

Action

None.

CMUC00026 COMMAND_INFO FB volume VALUE_0 successfully modified.

Explanation

The fixed block volume has been modified successfully.

Action

None.

CMUC00027W COMMAND_INFO Are you sure you want to delete FB volume VOLUME ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the fixed block volume.

Action

Enter **Y** to delete the volume. Enter **N** to cancel the operation.

CMUC00028I $COMMAND_INFO$ FB volume $VALUE_O$ successfully deleted.

Explanation

The fixed block volume has been deleted successfully.

Action

None.

CMUC00029I $\it COMMAND_INFO$ LSS $\it VALUE_\theta$ successfully modified.

Explanation

The logical subsystem has been modified successfully.

Action

CMUC000301 COMMAND INFO Volume group VALUE θ successfully created.

Explanation

The volume group has been created successfully.

Action

None.

CMUC00031I COMMAND_INFO Volume group VALUE_0 successfully modified.

Explanation

The volume group has been modified successfully.

Action

None.

CMUC00032W COMMAND_INFO Are you sure you want to delete volume group VOLGRP ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the volume group.

Action

Enter **Y** to delete the volume group. Enter **N** to cancel the operation.

CMUC00033I $COMMAND_INFO$ Volume group $VALUE_O$ successfully deleted.

Explanation

The volume group has been deleted successfully.

Action

None.

CMUC00034W COMMAND_INFO Data can be lost. You have requested an operation that discards a portion of the volume. Are you sure that you want to delete tracks START to END on volume VOLUME_ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete pinned data.

Action

Enter \mathbf{Y} to delete the data. Enter \mathbf{N} to cancel the operation.

CMUC00035I COMMAND_INFO Pinned tracks START to END on volume VOLUME_ID successfully deleted.

Explanation

The pinned track data on the volume has been deleted successfully.

Action

None.

CMUC00036W COMMAND_INFO Are you sure you want to reset the access state for volume VOLUME ID? [y/n]:

Explanation

You are being asked to confirm that you want to restore access to the volume by resetting the volume access state.

Action

Enter Y to restore access to the volume. Enter N to cancel the operation.

CMUC00037I *COMMAND_INFO* Access state for volume *VOLUME_ID* successfully reset.

Explanation

Access to the volume has been restored successfully. The access state has been reset.

Action

None.

CMUC00038W COMMAND_INFO Are you sure you want to clear volume VOLUME_ID? [y/n]:

Explanation

You are being asked to confirm that you want to clear the Copy Services relationships for the base volume.

Action

Enter Y to clear the volume. Enter N to cancel the operation.

CMUC00039I COMMAND_INFO No FlashCopy or Remote Mirror and Copy relationships exist for volume VOLUME ID. The volume is clear.

Explanation

No Copy Services relationships can be found for this volume. No action can be taken because the volume is already clear.

Action

None.

CMUC00040I COMMAND_INFO Storage complex VALUE_0 successfully modified.

Explanation

The storage complex has been modified successfully.

Action

None.

CMUC00041 COMMAND_INFO Storage unit VALUE_0 successfully modified.

Explanation

The storage unit has been modified successfully.

Action

None.

CMUC00042I $COMMAND_INFO$ Storage image $VALUE_O$ successfully modified.

Explanation

The storage image has been modified successfully.

Action

None.

CMUC00043I COMMAND_INFO Environment variable successfully set.

Explanation

The command-line interface environment variable has been set successfully.

Action

CMUC00044E COMMAND_INFO Unknown error returned by management console server.

Explanation

The management console server reports a failure for unknown reasons.

Action

Verify that the correct versions of the management console server software and the command-line interface are installed. If the problem persists, contact IBM technical support for assistance.

CMUC00045E COMMAND_INFO ERROR_CODE Unknown error code returned by management console server.

Explanation

The management console server returns an unknown error code.

Action

Contact IBM technical support for assistance.

CMUC00046E COMMAND_INFO Failure returned by management console server.

Explanation

The management console server reports that the operation fails.

Action

Specify the command and the parameters properly, and then resubmit the command. Verify that the correct versions of the management console server software and the command-line interface are installed. If the problem persists, contact IBM technical support for assistance.

CMUC00047E COMMAND_INFO Resource VALUE_0 does not exist.

Explanation

The resource that is specified as a command parameter cannot be found.

Action

Correctly specify the resource, and then resubmit the command.

CMUC00048E COMMAND INFO Array site VALUE 0 does not exist.

Explanation

You are attempting to list, show, or create an array, but the array site that is specified as a command parameter cannot be found.

Action

Correctly specify the array site, or resubmit the command with another array site ID.

Tip: Enter "help command_name" for more information.

CMUC00049E COMMAND_INFO Array ID VALUE_0 does not exist.

Explanation

The array that is specified as a command parameter cannot be found.

Action

Correctly specify the array ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00050E COMMAND_INFO Rank ID VALUE_0 does not exist.

Explanation

You are attempting to list, show, change, or remove a rank, but the rank that is specified as a command parameter cannot be found.

Action

Correctly specify the rank ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00051E COMMAND_INFO Extent pool VALUE_0 does not exist.

Explanation

The extent pool that is specified as a command parameter cannot be found.

Action

Specify the correct extent pool ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00052E COMMAND_INFO Storage image VALUE_0 does not exist.

Explanation

The storage image that is specified as a command parameter (for example, -dev) cannot be found.

Specify a valid storage image, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00053E COMMAND_INFO I/O port VALUE_0 does not exist.

Explanation

The I/O port that is specified as a command parameter cannot be found.

Action

Specify the correct I/O port ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00054E COMMAND INFO LSS VALUE 0 does not exist.

Explanation

The logical subsystem ID that is specified as a command parameter cannot be found.

Action

Specify the correct logical subsystem ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00055E COMMAND_INFO Storage image ID VALUE_0 does not exist. Explanation

The storage image ID that is specified as a command parameter cannot be found.

Action

Specify the correct storage image ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00056E COMMAND_INFO Storage image VALUE_0 does not exist. Explanation

You attempting to list a storage image, but the storage image ID that is specified as a command parameter cannot be found.

Action

Specify the correct storage image ID, and then resubmit the command.

CMUC00057E $COMMAND_INFO$ Volume group $VALUE_\theta$ does not exist. Explanation

The volume group ID that is specified as a command parameter cannot be found.

Action

Specify the correct volume group ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00058E COMMAND_INFO Volume VALUE_0 does not exist.

Explanation

The volume ID that is specified as a command parameter cannot be found.

Action

Specify the correct volume ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00059E COMMAND_INFO Storage complex VALUE_0 does not exist. Explanation

The storage complex that is specified as a command parameter cannot be found.

Action

Specify the correct storage complex, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00060E COMMAND_INFO Enclosure VALUE_0 does not exist. Explanation

The enclosure that is specified as a command parameter cannot be found.

Action

Specify the correct enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00061E COMMAND_INFO CEC enclosure VALUE_0 does not exist. Explanation

The computer electronic complex (CEC) enclosure that is specified as a command parameter cannot be found.

Specify the correct CEC enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00062E $COMMAND_INFO$ Storage management console enclosure $VALUE \ \theta$ does not exist.

Explanation

The management console enclosure that is specified as a command parameter cannot be found.

Action

Specify the correct management console enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00063E COMMAND_INFO I/O enclosure VALUE_0 does not exist.

Explanation

The input/output (I/O) enclosure that is specified as a command parameter cannot be found.

Action

Specify the correct I/O enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00064E COMMAND_INFO Processor complex enclosure VALUE_0 does not exist.

Explanation

The processor complex enclosure that is specified as a command parameter cannot be found.

Action

Specify the correct processor complex enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00065E COMMAND_INFO Frame enclosure VALUE_0 does not exist. Explanation

The frame enclosure that is specified as a command parameter cannot be found.

Specify the correct frame enclosure, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00066E $COMMAND_INFO$ Storage enclosure $VALUE_\theta$ does not exist. Explanation

The storage enclosure that is specified as a command parameter cannot be found.

Action

Specify the correct storage enclosure, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00067E COMMAND_INFO FRU VALUE_0 does not exist.

Explanation

The field-replaceable unit (FRU) that is specified as a command parameter cannot be found.

Action

Specify the correct FRU, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00068E COMMAND_INFO Host connection VALUE_0 does not exist. Explanation

The host connection that is specified as a command parameter cannot be found.

Action

Specify the correct host connection, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00069E COMMAND_INFO Invalid storage image ID VALUE_0. Explanation

The format of the specified storage image ID is incorrect.

Action

Specify the storage image ID in the correct format, and then resubmit the command.

CMUC00070E $\it COMMAND_INFO$ Inconsistent storage image ID $\it VALUE_\theta$.

Explanation

Two or more different storage image IDs are specified in a single command.

Action

Specify only one storage image ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00071E COMMAND INFO Invalid ID VALUE O.

Explanation

The format of the specified ID is incorrect.

Action

Specify the ID in the correct format, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00072E COMMAND INFO Invalid array site ID VALUE 0.

Explanation

The format of the array site ID is incorrect.

Action

Specify the array site ID in the correct format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00073E COMMAND_INFO Invalid array ID VALUE_0.

Explanation

The format of the array ID is incorrect.

Action

Specify the array ID in the correct format, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00074E COMMAND_INFO Invalid Rank ID VALUE_0.

Explanation

The format of the rank ID is incorrect.

Specify the rank ID in the correct format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00075E COMMAND_INFO Invalid extent pool ID VALUE_0.

Explanation

The format of the extent pool ID is incorrect.

Action

Specify the extent pool ID in the correct format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00076E COMMAND_INFO Invalid address group VALUE_0.

Explanation

The format of the specified address group is incorrect.

Action

Specify the address group in the correct format, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00077E $COMMAND_INFO$ Invalid storage image ID $VALUE_O$.

Explanation

The format of the specified storage image ID is incorrect.

Action

Specify the storage image ID in the correct format, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00078E COMMAND INFO Invalid I/O port VALUE 0.

Explanation

The format of the specified input/output (I/O) port is incorrect.

Action

Specify the I/O port in the correct format, and then resubmit the command.

CMUC00079E COMMAND INFO Invalid LSS VALUE 0.

Explanation

The format of the specified logical subsystem is incorrect.

Action

Specify the logical subsystem in the correct format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00080E COMMAND_INFO Invalid storage unit ID VALUE_0.

Explanation

The format of the specified storage unit ID is incorrect.

Action

Specify the storage unit ID in the correct format, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00081E COMMAND INFO Invalid storage server ID VALUE 0.

Explanation

The format of the specified storage server ID is incorrect. Each storage image contains two storage servers: 00 and 01. You must specify a fully qualified server ID.

Example: IBM.2107-1300321/00

Action

Specify a fully qualified storage server ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00082E COMMAND_INFO Invalid volume group VALUE_0.

Explanation

The format of the specified volume group ID is incorrect.

Action

Specify the volume group in the correct format, and then resubmit the command.

CMUC00083E COMMAND_INFO Invalid volume VALUE_0.

Explanation

The format of the specified volume ID is incorrect.

Action

Specify the volume in the correct format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00084E $COMMAND_INFO$ The specified parameter $VALUE_\theta$ is out of range.

Explanation

The specified parameter value is not within acceptable limits.

Action

Specify the parameter within range, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00085E $COMMAND_INFO$ The specified parameter $VALUE_O$ is invalid.

Explanation

The specified parameter value is invalid.

Action

Specify a valid parameter value, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00086E COMMAND_INFO Invalid topology TOPOLOGY specified for I/O port PORT.

Explanation

The specified port topology is invalid.

Action

Specify a valid port topology, and then resubmit the command.

CMUC00087E $\it COMMAND_INFO$ The specified LCU $\it VALUE_0$ is invalid.

Explanation

The specified logical control unit is invalid.

Action

Specify a valid, existing logical control unit, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00088E COMMAND_INFO The specified LCU VALUE_0 already exists. Explanation

The specified logical control unit already exists. A new ID is required.

Action

Specify a logical control unit ID that is not currently in use, and then resubmit the command.

CMUC00089E $COMMAND_INFO$ The specified ID $VALUE_0$ is not an LCU. Explanation

The specified ID exists, but it is not a logical control unit. A logical control unit is required for this operation.

Action

Specify a logical control unit, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00090E $COMMAND_INFO$ The specified ID $VALUE_0$ is not an LSS. Explanation

The specified ID exists, but it is not a logical subsystem. A logical subsystem is required for this operation.

Action

Specify a logical subsystem, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00091E $COMMAND_INFO$ The specified SSID $VALUE_0$ is invalid. Explanation

The format of the specified subsystem ID is invalid.

Specify the subsystem ID in the proper format, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00092E COMMAND_INFO The specified volume ID VALUE_0 already exists.

Explanation

The specified volume exists.

Action

Use a volume ID not currently in use, and then resubmit the command.

CMUC00093E $COMMAND_INFO$ The specified volume $VALUE_\theta$ is not type CKD.

Explanation

The specified volume is a fixed block volume. The volume type must be count-key-data for this operation.

Action

Specify a count-key-data volume, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00094E $COMMAND_INFO$ The specified volume $VALUE_O$ is not of type FB.

Explanation

The specified volume is a count-key-data volume. The volume type must be fixed block for this operation.

Action

Specify a fixed block volume, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00095E COMMAND_INFO No storage image ID is specified.

Explanation

A storage image ID must be specified in your profile or by using the **-dev** flag with the command.

Specify a storage image ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00096E COMMAND_INFO No remote storage image ID is specified.

Explanation

The command requires a remote storage image ID as a parameter. No remote storage image ID is specified.

Action

Include a remote storage image ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00097E COMMAND_INFO A single storage image ID is specified. A pair of storage image IDs is required for this command.

Explanation

The command requires a pair of storage image IDs as a parameter. However, a single storage image ID is specified.

Action

Specify a pair of storage image IDs, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00098E COMMAND_INFO A pair of storage image IDs is specified. A single storage image ID is required for this command.

Explanation

The command issued requires a single storage image ID as a parameter. However, a pair of storage image IDs is specified.

Action

Specify a single storage image ID, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00099E $COMMAND_INFO$ A single subsystem ID $VALUE_0$ is specified. A pair of subsystem IDs is required for this command.

Explanation

The command requires a pair of subsystem IDs as a parameter. A subsystem ID pair consists of two subsystem IDs that are separated by a colon, with no spaces.

Specify a pair of subsystem IDs, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00100E COMMAND_INFO A pair of subsystem IDs VALUE_0 is specified. A single subsystem ID is required for this command.

Explanation

The command requires a single subsystem ID as a parameter.

Action

Specify a single subsystem ID, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00101E $COMMAND_INFO$ FlashCopy pairs $VALUE_0$ are persistent. The -wait option cannot be specified for persistent pairs.

Explanation

The FlashCopy pairs were established as persistent, with the intention of retaining the relationship after the copy completes. This definition overrides the **-wait** option.

Action

Resubmit the command without the -wait option.

Tip: Enter "help command_name" for more information.

CMUC00102E $COMMAND_INFO$ The -cp option must be used in conjunction with the -wait option.

Explanation

You must include a **-cp** flag and value when the **-wait** option is used with this command.

Action

Resubmit the command, specifying both **-cp** and **-wait** flags and values, or omit the **-wait** option.

CMUC00103E COMMAND_INFO When specifying the -range parameter, the starting and ending volume IDs must be on the same storage image.

Explanation

The **-range** parameter initiates a query that displays volume relationships that exist for source or target volumes within the specified volume ID range. The range is meaningless unless it is specified for volumes that are on the same storage image.

Action

Specify volumes on the same storage image, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00104E $COMMAND_INFO$ The specified options for this command are incompatible or invalid: VALUE O

Explanation

You are attempting to establish or change a path. Two or more of the options that have been supplied are incompatible, or at least one of the options is invalid.

Action

Specify compatible and valid options, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00105E $COMMAND_INFO$ The following parameters are incompatible: $VALUE\ \theta$.

Explanation

Two or more of the command parameters are incompatible.

Action

Specify only compatible parameters, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00106E $COMMAND_INFO$ The parameter value $VALUE_0$ is larger than the maximum allowable value: $VALUE_1$.

Explanation

The parameter that has been supplied is larger than the maximum value that is allowed.

Action

Specify a value equal to or lower than the maximum value that is allowed, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00107E $COMMAND_INFO$ The parameter value $VALUE_0$ is smaller than the minimum allowable value: $VALUE_1$.

Explanation

The parameter that has been supplied is smaller than the minimum value that is allowed.

Action

Specify a value equal to or higher than the minimum value that is allowed, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00108E COMMAND_INFO The Remote Mirror and Copy volume pair must be in full-duplex mode before the host server can read from target volumes.

Explanation

The No Target Read **-notgthread** option has been specified, and the pair is not in full-duplex mode. For the host server to read the volume, the Remote Mirror and Copy volume pair must be in full-duplex mode.

Action

Place the pair in full-duplex mode, and then resubmit the command. You can use the **-mode full** option to place the Remote Mirror and Copy volume pair in full-duplex mode.

Tip: Enter "help **command_name**" for more information.

CMUC00109E $COMMAND_INFO$ The -uconditional flag is invalid unless it is used in conjunction with the -at parameter.

Explanation

The **-uconditional** flag indicates that a source or target volume has been selected individually, and not as a pair. It is valid only if the **-at** option specifies a source or a target.

Action

Specify both **-uconditional** and **-at** flags, and then resubmit the command.

CMUC00110E COMMAND INFO No matching candidate connection found.

Explanation

The candidate Remote Mirror and Copy path between source and target ports cannot be established because one or both of the physical connections cannot be found.

Action

Specify existing source and target ports, and then resubmit the command.

Tip: Enter "help **command_name**" for more information.

CMUC00111E COMMAND_INFO One or more of the specified volumes is not within the specified LSS.

Explanation

This command requires a logical subsystem ID and one or more volume IDs. The volumes must be members of the specified logical subsystem. One or more of the volumes are not members of the specified logical subsystem.

Action

Specify only volumes within the specified logical subsystem, and then resubmit the command.

CMUC00112E $COMMAND_INFO$ Port candidate $VALUE_O$ is not available for an ESCON connection.

Explanation

You are attempting to create a path between source and target logical subsystems on an IBM model 2105 storage unit over an ESCON connection. The specified port is not available for an ESCON connection. This might be because the port does not exist, because it is not identified as an ESCON port, or because it is already in use.

Action

Use the **Isavailpprcport** command to list available ports and their types. Specify an available ESCON port, and then resubmit the command.

CMUC00113E COMMAND_INFO Record VALUE_1 already exists in password file FILE NAME.

Explanation

You are attempting to add a password record in the password file. However, the specified user name already exists in the file.

Specify a user name that is not currently in use, and then resubmit the command. If you want to change the record specified, issue the **managepwfile** command with the **-action change** flag.

CMUC00114E COMMAND_INFO Record VALUE_1 does not exist in password file FILE NAME.

Explanation

You are attempting to change or remove a record in the password file. However, the file contains no record for the specified user name and management console.

Action

Specify a valid record, and then resubmit the command. If you want to add a new record, issue the **managepwfile** command with the **-action add** flag.

CMUC00115E $COMMAND_INFO$ User account file $VALUE_\theta$ not found.

Explanation

You are attempting to change or remove a user. The specified user account file cannot be found. This might be because the file name is incorrect, or because you lack necessary permissions.

Action

Ensure that you have appropriate permissions. Specify the correct user account file name, and then resubmit the command.

CMUC00116E *COMMAND_INFO* User account file *FILE_NAME* is used for another user.

Explanation

You are attempting to create a user. The specified user account file is in use for another user. A different file name must be specified.

Action

Specify another file name, and then resubmit the command.

CMUC00117E COMMAND_INFO Unable to create password file FILE_NAME.

Explanation

You are attempting to create a password file. The system is unable to create the file. This might be because you lack necessary permissions or have exceeded a quota.

Ensure that you have appropriate file creation permissions or alter the quota, and then resubmit the command.

$\textbf{CMUC00118E} \ \textit{COMMAND_INFO} \ \textbf{Unable to update password file} \ \textit{FILE_NAME.}$

Explanation

You are attempting to update a password file. The system is unable to update the file. This might be because you lack necessary permissions or have exceeded a quota.

Action

Ensure that you have appropriate file permissions or alter the quota, and then resubmit the command.

CMUC00119E COMMAND_INFO Invalid password format.

Explanation

The format of the specified password is invalid.

- A password must be a minimum of six alphanumeric characters (a z, A Z, or 0 9) in length.
- A password must contain at least one numeric character (0 9).
- · The initial character of the password cannot be numeric.
- · Passwords are case-sensitive.

Action

Use an appropriately formatted password, and then resubmit the command.

CMUC00120E COMMAND_INFO Invalid password.

Explanation

The specified password is incorrect.

Action

Use the correct password, and then resubmit the command.

CMUC00121E *COMMAND_INFO* **Invalid account file** *VALUE_0* **for user** *USERNAME*.

Explanation

You are attempting to change or remove a user. The user and account file name do not match.

Use the correct user name and account file name combination, and then resubmit the command.

CMUC00122E COMMAND_INFO Invalid admin user.

Explanation

You are attempting to show a user. Your user name is not a member of the admin group, and lacks sufficient privileges to use this command.

Action

Resubmit the command as a user who is a member of the admin group.

CMUC00123E COMMAND_INFO Unable to create user account USERNAME.

Explanation

You are attempting to create a new user on the management console server. The task fails.

Action

Ensure that the management console server is available and that you have proper privileges to create a user account. You must be a member of the admin group to use this command. Resubmit the command.

CMUC00124E COMMAND_INFO Unable to assign user USERNAME to group GROUP.

Explanation

You are attempting to create a new user on the management console server. The user cannot be assigned to the specified group.

Action

Ensure that the group exists. If the problem persists, contact IBM technical support for assistance.

CMUC00125E COMMAND_INFO Unable to modify user group to NEW_GROUP.

Explanation

You are attempting to change a user's group to a new group. The user's group cannot be modified to the specified group.

Action

Ensure that the group exists. If the problem persists, contact IBM technical support for assistance.

CMUC00126E COMMAND INFO Unable to modify password.

Explanation

You are attempting to change a user's password. The password cannot be changed to the specified password.

- A password must be a minimum of six alphanumeric characters (a z, A Z, or 0 - 9) in length.
- A password must contain at least one numeric character (0 9).
- · The initial character of the password cannot be numeric.
- · Passwords are case-sensitive.

Action

Correctly specify the new password. If the problem persists, contact IBM technical support for assistance.

CMUC00127E COMMAND INFO Unable to delete user account USERNAME on the management console server.

Explanation

You are attempting to delete a user on the management console server. The task fails.

Action

Ensure that you have appropriate privileges. You must be a member of the admin group to use this command. If the problem persists, contact IBM technical support for assistance.

CMUC00128E COMMAND INFO Unable to find a Remote Mirror and Copy path for the specified logical subsystems.

Explanation

The paths cannot be deleted for the specified logical subsystems. No paths can be found.

Action

Ensure that the correct logical subsystems are specified, and then resubmit the task.

CMUC00129E COMMAND INFO All source volumes must be within the same logical subsystem.

Explanation

The -srcss flag is specified with the command. This flag requires that all source volumes are contained within the same logical subsystem. Not all of the source volumes specified are contained within the same logical subsystem.

Specify source volumes that are all contained within the same logical subsystem, and then resubmit the command. Issue separate commands for volumes that are contained within different logical subsystems.

CMUC00130E COMMAND_INFO All target volumes must be within the same logical subsystem.

Explanation

The **-tgtss** flag is specified with the command. This flag requires that all target volumes are contained within the same logical subsystem. Not all of the target volumes specified are contained within the same logical subsystem.

Action

Specify target volumes that are all contained within the same logical subsystem, and then resubmit the command. Issue separate commands for volumes that are contained within different logical subsystems.

CMUC00131E COMMAND_INFO Operation failure

Explanation

The **Ishostvol** command fails for one of the following reasons:

- The CLI installation did not complete successfully.
- A platform-dependent external command is being invoked unsuccessfully.
- · You lack sufficient privileges.

Action

Check the CLI installation log for errors and reinstall if necessary. Ensure that you have the appropriate privileges to perform the task. If the problem persists, contact IBM technical support for assistance.

$\textbf{CMUC00132E} \ \textit{COMMAND_INFO} \ \textbf{Command interrupted.} \ \textbf{Resubmit the command.}$

Explanation

The **Ishostvol** command was interrupted for an unknown reason.

Action

Resubmit the command. If the problem persists, contact IBM technical support for assistance.

CMUC00133I COMMAND INFO User USERNAME successfully created.

Explanation

The user has been created successfully.

None.

CMUC00134I COMMAND_INFO User USERNAME successfully modified.

Explanation

The user has been modified successfully.

Action

None.

CMUC00135W COMMAND_INFO Are you sure you want to delete user USERNAME? [y/n]:

Explanation

You are being asked to confirm that you want to delete the user.

Action

Enter Y to delete the user. Enter N to cancel the operation.

CMUC00136I COMMAND_INFO User USERNAME successfully deleted.

Explanation

The user has been deleted successfully.

Action

None.

CMUC00137I $COMMAND_INFO$ FlashCopy pair $VALUE_0$ successfully created.

Explanation

The FlashCopy pair has been created successfully.

Action

None.

CMUC00138I COMMAND_INFO Background copy for FlashCopy pair VALUE_0 successful.

Explanation

The command has been invoked with the **-wait** flag. The background copy for the specified pair ran successfully.

None.

CMUC00139E COMMAND_INFO FlashCopy pair VALUE_0 cannot be created.

Explanation

The FlashCopy pair cannot be created.

Action

Contact IBM technical support for assistance.

CMUC001401 COMMAND_INFO FlashCopy pair VALUE_0 successfully removed.

Explanation

The command has been invoked without the **-cp** flag. The specified FlashCopy pair has been removed successfully.

Action

None.

CMUC00141I $COMMAND_INFO$ Background copy for FlashCopy pair $VALUE_O$ ended successfully. Relationship successfully removed.

Explanation

The command has been invoked with the **-cp** and **-wait** flags. The background copy for the specified pair ended successfully, and the relationship has been removed.

Action

None.

CMUC00142I $COMMAND_INFO$ Background copy process for FlashCopy pair $PAIR_ID$ successfully started. The relationship will be removed when the copy ends.

Explanation

The **-cp** flag has been used, and the FlashCopy pair is not persistent. The background copy process for the FlashCopy pair has started successfully. The FlashCopy volume pair relationship will be withdrawn when the copy process completes.

Action

CMUC00143I $COMMAND_INFO$ Background copy process for FlashCopy pair $PAIR_ID$ successfully started. The persistent relationship will not be removed.

Explanation

The **-cp** flag has been used, and the FlashCopy pair is persistent. The background copy process for the FlashCopy pair has started successfully. The FlashCopy volume pair relationship will continue when the copy process completes.

Action

None.

CMUC00144W COMMAND_INFO Are you sure you want to remove the FlashCopy pair PAIR_ID? [y/n]:

Explanation

You are being asked to confirm that you want to remove the FlashCopy pair that is specified in the rmflash command.

Action

Enter Y to delete the pair. Enter N to cancel the operation.

CMUC00145 COMMAND_INFO Session SESSION_ID opened successfully.

Explanation

The Global Mirror session has opened successfully.

Action

None.

CMUC001461 COMMAND_INFO Session SESSION_ID closed successfully.

Explanation

The Global Mirror session has closed successfully.

Action

None.

CMUC00147 COMMAND_INFO Session SESSION_ID successfully modified.

Explanation

The Global Mirror session has been modified successfully.

None.

CMUC00148W COMMAND_INFO Are you sure you want to close session SESSION ID? [y/n]:

Explanation

You are being asked to confirm that you want to close the session that you specified.

Action

Enter **Y** to close the session. Enter **N** to cancel the operation.

CMUC00149I COMMAND_INFO Remote Mirror and Copy path TARGET_LSS successfully established.

Explanation

The Remote Mirror and Copy path between source and target logical subsystems has been established successfully.

Action

None.

CMUC00150I COMMAND_INFO Remote Mirror and Copy path VALUE_0 successfully removed.

Explanation

The Remote Mirror and Copy path between source and target logical subsystems has been removed successfully.

Action

None.

CMUC00151I $COMMAND_INFO$ Remote Mirror and Copy path $VALUE_O$ successfully modified.

Explanation

The Remote Mirror and Copy path between source and target logical subsystems has been modified successfully.

Action

CMUC00152W COMMAND_INFO Are you sure you want to remove the Remote Mirror and Copy path PATH ID? [y/n]:

Explanation

You are being asked to confirm that you want to remove the Remote Mirror and Copy path that you specified.

Action

Enter **Y** to remove the path. Enter **N** to cancel the operation.

CMUC00153I $COMMAND_INFO$ Remote Mirror and Copy volume pair relationship $VALUE\ \theta$ successfully created.

Explanation

The Remote Mirror and Copy volume pair relationship has been created successfully.

Action

None.

CMUC00154I COMMAND_INFO Remote Mirror and Copy volume pair VALUE_0 relationship successfully created and in full-duplex state.

Explanation

The command has been invoked with the **-wait** flag. The Remote Mirror and Copy volume pair relationship has been created successfully and is now in full-duplex state.

Action

None.

CMUC001551 COMMAND_INFO Remote Mirror and Copy volume pair VALUE_0 relationship successfully withdrawn.

Explanation

The Remote Mirror and Copy source and target pair relationship has been withdrawn successfully.

Action

CMUC00156I COMMAND_INFO Remote Mirror and Copy volume pair VALUE_0 relationship successfully modified.

Explanation

The Remote Mirror and Copy source and target volume pair relationship has been modified successfully.

Action

None.

CMUC00157I $COMMAND_INFO$ Remote Mirror and Copy volume pair $VALUE_O$ relationship successfully paused.

Explanation

The Remote Mirror and Copy source and target volume pair relationship has paused successfully.

Action

None.

CMUC00158I *COMMAND_INFO* Remote Mirror and Copy volume pair *VALUE_0* relationship successfully resumed. This message is being returned before the copy completes.

Explanation

The Remote Mirror and Copy source and target volume pair relationship has resumed successfully. An asynchronous copy from source to target began, but this message is being returned before the copy completes.

Action

None.

CMUC00159I *COMMAND_INFO* Remote Mirror and Copy volume pair *VALUE_0* relationship successfully resumed and completed. All data has been copied to the target. The relationship is now in full-duplex mode.

Explanation

The Remote Mirror and Copy source and target volume pair relationship resumed successfully and completed. The **-wait** flag was specified when the command was issued, and the command has now completed successfully.

Action

CMUC00160W COMMAND_INFO Are you sure you want to delete the Remote Mirror and Copy volume pair relationship PAIR_ID? [y/n]:

Explanation

You are being asked to confirm that you want to delete the Remote Mirror and Copy volume pair relationship that you specified.

Action

Enter \mathbf{Y} to delete the Remote Mirror and Copy volume pair relationship. Enter \mathbf{N} to cancel the operation.

CMUC00161W $COMMAND_INFO$ Remote Mirror and Copy consistency group VALUE O successfully created.

Explanation

The Remote Mirror and Copy consistency group was created successfully.

Action

None.

CMUC00162I *COMMAND_INFO* **Global** Mirror for session *SESSION_ID* successfully started.

Explanation

Global Mirror for the session started successfully.

Action

None.

CMUC00163I COMMAND_INFO Global Mirror for session SESSION_ID successfully paused.

Explanation

Global Mirror for the session has paused successfully.

Action

None.

CMUC00164I COMMAND_INFO Global Mirror for session SESSION_ID successfully resumed.

Explanation

Global Mirror for the session has resumed successfully.

None.

CMUC00165I COMMAND_INFO Global Mirror for session SESSION_ID successfully stopped.

Explanation

Global Mirror for the session has been stopped successfully.

Action

None.

CMUC00166W COMMAND_INFO Are you sure you want to stop the Global Mirror session SESSION_ID? [y/n]:

Explanation

You are being asked to confirm that you want to stop the specified Global Mirror session.

Action

Enter Y to stop the Global Mirror session. Enter N to cancel the operation.

CMUC00167I COMMAND_INFO FlashCopy volume pair PAIR_ID successfully made revertible.

Explanation

The FlashCopy volume pair that is part of an Global Mirror relationship has been modified to **revertible**. The source data can now be **committed** to the target, or the source data can be **reverted** to the data image that is currently on the target.

Action

None.

CMUC00168I COMMAND_INFO FlashCopy volume pair PAIR_ID successfully resynchronized.

Explanation

Incremental changes to the FlashCopy source volume data have been written successfully to the target volume.

Action

CMUC00169I COMMAND_INFO FlashCopy volume pair PAIR_ID successfully reversed.

Explanation

The original FlashCopy source volume has been made the target volume. The original FlashCopy target volume has been made the source volume. Any uncommitted incremental changes to the original source volume data have been overwritten with older data from the new source volume.

Action

None.

CMUC00170I COMMAND_INFO FlashCopy volume pair PAIR_ID successfully committed.

Explanation

Changes to the FlashCopy source volume data have been committed to the target volume.

Action

None.

CMUC00171I COMMAND_INFO FlashCopy volume pair PAIR_ID successfully reverted.

Explanation

All new writes to the source volume since the last time source data was committed to the target volume have been discarded.

Action

None.

CMUC00172I $COMMAND_INFO$ FlashCopy consistency group for logical subsystem $PAIR_ID$ successfully reset.

Explanation

A **mkflash** -freeze or **resyncflash** -freeze command has been invoked previously against this consistency group. The **unfreezeflash** command successfully reset the consistency group.

Action

CMUC00173I *COMMAND_INFO* Remote FlashCopy volume pair *PAIR_ID* successfully created. Use the lsremoteflash command to determine copy completion.

Explanation

The remote FlashCopy relationship has been created and started successfully, but this message is being returned before the copy completes. Use the **Isremoteflash** command to determine if the copy has completed.

Action

None.

CMUC00174I COMMAND_INFO Remote FlashCopy pair PAIR_ID successfully made revertible.

Explanation

The remote FlashCopy volume pair has been modified to **revertible**. The source data can now be **committed** to the target, or the source data can be **reverted** to the data image that is currently on the target.

Action

None.

CMUC00175I *COMMAND_INFO* Remote FlashCopy volume pair *PAIR_ID* successfully resynchronized. Use the lsremoteflash command to determine copy completion.

Explanation

The remote FlashCopy relationship resynchronization operation started successfully, but this message is being returned before the copy completes. Use the **Isremoteflash** command to determine if the copy has completed.

Action

None.

CMUC00176I *COMMAND_INFO* Remote FlashCopy volume pair *PAIR_ID* successfully committed.

Explanation

The remote FlashCopy relationship has been committed. The target data is an identical image of the source data at the time the commit command was issued.

Action

None.

CMUC001771 COMMAND INFO Remote FlashCopy volume pair PAIR ID successfully reverted.

Explanation

All new writes to the source volume since the last time data was committed to the target volume are being discarded.

Action

None.

CMUC001781 COMMAND INFO Remote FlashCopy volume pair PAIR ID successfully reversed.

Explanation

The original remote FlashCopy source volume has been made the target volume. The original remote FlashCopy target volume has been made the source volume. Any uncommitted incremental changes to the original source volume data are being overwritten with older data from the new source volume.

Action

None.

CMUC00179I COMMAND INFO Are you sure you want to remove the remote FlashCopy pair PAIR ID? [y/n]:

Explanation

You are being asked to confirm that you want to remove the remote FlashCopy pair relationship.

Action

Enter Y to delete the remote FlashCopy volume pair relationship. Enter N to cancel the operation.

CMUC001801 COMMAND INFO Removal of the remote FlashCopy volume pair PAIR ID has been initiated successfully. Use the Isremoteflash command to determine when the relationship is deleted.

Explanation

The deletion of the remote FlashCopy relationship has been started, but this message is being returned before the process completes. You must use the Isremoteflash command to determine if the removal has completed.

Action

None.

CMUC00181E COMMAND_INFO A user name must be specified.

Explanation

This command requires a user name. You can specify the user name with the **-user** command-line flag or in the password file.

Action

Specify a valid user name, and then resubmit the command.

Tip: Enter "help command_name" for more information.

CMUC00182E COMMAND_INFO No management console IP address is specified.

Explanation

No command can be issued until you have specified the IP address of the management console. This IP address establishes communication between the command-line interface client and the management console server.

Action

Specify a valid IP address for the management console, and then resubmit the command. Specify the IP address in your user profile or by using appropriate options on some commands.

Tip: Enter "help **command_name**" for more information.

CMUC00183E COMMAND_INFO Invalid management console IP address: VALUE 0.

Explanation

An invalid IP address for the management console is specified in the user profile or with command flags.

Action

Specify a valid IP address for the management console, and then resubmit the command. You can specify the IP address in your user profile or by using appropriate options on some commands.

Tip: Enter "help **command_name**" for more information.

Explanation

The current CLI session is either in interactive mode or script mode, and the command specifies a new management console server address. The command is

rejected because changing the management console server connection is not permitted.

Action

Open a different session to issue commands to the new management console server.

CMUC00185E Unable to access CLI user profile file FILE_NAME. Explanation

The CLI is unable to read your user profile for one of the following reasons:

- · The file does not exist.
- · The file is in the wrong location.
- · The file is corrupted.
- · You lack sufficient privileges on the profile directory or file.

Action

Ensure that the file exists in the proper location, and that you have access privileges.

CMUC00186E User profile file FILE_NAME. not found. Explanation

The specified profile file cannot be found.

Action

Ensure that the file exists in the proper location.

CMUC00187E Unable to access CLI user password file FILE_NAME. Explanation

The CLI is unable to find your user password file for one of the following reasons:

- · The file does not exist.
- · The file is in the wrong location.
- · The file is improperly named.
- · You lack sufficient privileges on the password directory or file.

Action

Ensure that the file exists in the proper location, and that you have access privileges.

CMUC00188E Unable to read CLI user password file FILE_NAME. Explanation

The CLI is unable to read your user password file for one of the following reasons:

- · The file does not exist.
- · The file is in the wrong location.
- · The file is improperly named.
- · The file is corrupted.
- · You lack sufficient privileges on the password directory or file.

Action

Ensure that the file exists in the proper location, and that you have access privileges.

CMUC00189E Internal error: VALUE 0.

Explanation

The CLI reports an internal error.

Action

Contact IBM technical support for assistance.

CMUC00190E VALUE_0: Authentication failure: invalid password Explanation

Authentication fails because the password is incorrect.

Action

Provide a valid password, and then resubmit the task.

CMUC00191E VALUE_0: Authentication failure: invalid user name Explanation

Authentication fails because the specified user account does not exist.

Action

Provide a valid user name, and then resubmit the task.

CMUC00192E $VALUE_\theta$: Authentication failure: the user account is locked.

Explanation

Authentication fails because the specified user account has been locked by the system administrator or because the wrong password was entered three times in

succession. Your system administrator can unlock the account with the **chuser** command.

Action

Contact your system administrator.

CMUC00193E VALUE_0: Authentication failure: unable to access account database.

Explanation

Authentication fails because the user account database cannot be accessed. The system administrator might be performing maintenance or other activities.

Action

Contact your system administrator.

CMUC00194E $VALUE_\theta$: Authentication failure: unable to authenticate on Enterprise Storage Server.

Explanation

You are attempting to authenticate on an Enterprise Storage Server (2105). Authentication fails for an unknown reason. Additional information is unavailable from the ESS.

Action

Ensure that you are providing the correct user name and password for the ESS. Contact your system administrator. If the problem persists, contact IBM technical support for assistance.

CMUC001951 COMMAND INFO Security properties successfully set.

Explanation

The security properties have been set successfully.

Action

None.

CMUC00196I *COMMAND_INFO* Remote Mirror and Copy pair *PAIR_ID* successfully reversed.

Explanation

The source and target volume have been reversed. The secondary volume at the recovery site is now the primary volume.

None.

CMUC00197I COMMAND_INFO Remote Mirror and Copy pair PAIR_ID successfully failed back.

Explanation

The source and target volumes have been resynchronized. The data at the production site and recovery site are now identical.

Action

None.

CMUC00198I *COMMAND_INFO* Remote Mirror and Copy pair *PAIR_ID* successfully thawed.

Explanation

All queued write operations to the source volume are written. The **Queue Full** condition for the primary volume is reset.

Action

None.

CMUC00199I COMMAND_INFO License Machine Code successfully applied to storage image STORAGE IMAGE ID.

Explanation

The License Machine Code has been applied successfully to the storage image.

Action

None.

CMUC00200E COMMAND_INFO This commmand is not supported for machine type TYPE.

Explanation

The command is not supported on the type of machine that is currently connected to the command-line interface. For example, you might be issuing a machine type 2107 command to a storage unit that is machine type 2105.

Action

Tip: Enter "help **command_name**" for more information.

CMUC00201E $VALUE_\theta$: Authentication failure: Your password has expired. Change your password with the chuser command.

Explanation

Authentication fails because your password has expired. You must change your password with the **chuser** command before you can issue any other commands.

Action

Change your password using the chuser command.

CMUC002021 COMMAND_INFO Remote Mirror and Copy ESCON path TARGET_LSS successfully created.

Explanation

The Remote Mirror and Copy ESCON path has been created successfully.

Action

None.

CMUC00203E COMMAND_INFO Invalid pair. Each source volume must have a matching target volume.

Explanation

The number of specified source volumes does not equal the number of specified target volumes.

Action

Enter complete source_volume:target_volume pairs, and then resubmit the task.

CMUC00204I COMMAND_INFO Password file FILE_NAME successfully created.

Explanation

The command to create a password file completed successfully.

Action

Update the **pwfile** entry in your profile to indicate this password file name.

CMUC002051 COMMAND_INFO Password file FILE_NAME successfully created.

Explanation

The command succeeded and a new password file was created.

Set the appropriate access control level for the new password file.

CMUC00206I COMMAND_INFO Record VALUE_1 successfully added to password file FILE NAME.

Explanation

The specified record has been added to the password file.

Action

None.

CMUC00207I $\it COMMAND_INFO$ Record $\it VALUE_1$ successfully changed in password file $\it FILE_NAME$.

Explanation

The specified record has been changed in the password file.

Action

None.

CMUC002081 COMMAND_INFO Record VALUE_1 successfully removed from password file FILE NAME.

Explanation

The specified record has been removed from the password file.

Action

None.

CMUC00209E COMMAND_INFO Unable to open password file FILE_NAME for write access.

Explanation

You are attempting to update the specified password file. However, you do not have permission to write to the file.

Action

Ask your system administrator to grant you write permissions to the file, and then resubmit the command.

CMUC00210E Password file FILE NAME is not formatted corrrectly. **Explanation**

You are attempting to authenticate, but the specified password file is not valid. Either this file is corrupted or it is not the correct file.

Action

Specify a correctly formatted password file, and then resubmit the task.

CMUC00211E COMMAND INFO The specified capacity CAPACITY is not valid for type TYPE.

Explanation

The value that you specified with the -cap flag is not valid for the type that you specified with the -type flag. Refer to the IBM TotalStorage DS Command-Line Interface User's Guide for a description of valid capacities.

Action

Specify a capacity that is valid for the type that is specified, and then resubmit the task.

CMUC00212I COMMAND INFO completed successfully.

Explanation

The command completed successfully.

Action

None.

CMUC00213E COMMAND INFO Unable to read License Machine Code activation codes file

Explanation

The file containing License Machine Code activation codes for this storage image cannot be read. The file that you specify must be an xml formatted file that you have obtained from an authorized IBM source.

Action

Resubmit the task. If the problem persists, specify a different file.

CMUC00214E COMMAND_INFO File FILE contains no License Machine Code for storage image STORAGE IMAGE ID.

Explanation

The specified file does not contain License Machine Code activation codes for this storage image. The file that you specify must be an xml formatted file that you have obtained from an authorized IBM source, and it must contain activation codes that are designated for this storage image.

Action

Specify the correct file and then resubmit the task.

CMUC00215E COMMAND_INFO Incorrectly formatted License Machine Code activation codes file

Explanation

The file containing License Machine Code activation codes for this storage image is not the correct format. The file that you specify must be an xml formatted file that you have obtained from an authorized IBM source.

Action

Specify the correct file and then resubmit the task.

CMUC00216I COMMAND_INFO CKD alias volume VOLUME successfully created.

Explanation

The CKD alias volume was created successfully.

Action

None.

CMUC00217E COMMAND_INFO The specified logical subsystem number for volume VOLUME is not valid.

Explanation

The specified logical subsystem number contains characters that are not valid or is not an existing logical subsystem.

Action

Specify a valid logical subsystem number for the volume, and then resubmit the task.

CMUC00218E COMMAND_INFO The specified logical control unit number for volume VOLUME is not valid. Either you specified this volume explicitly or you specified it implicitly by parameter values.

Explanation

The specified logical control unit number contains characters that are not valid or is not an existing logical control unit.

Action

Specify a valid logical control unit number for the volume, and then resubmit the task.

CMUC00219E COMMAND_INFO Connection failure: The specified storage management console peers are not valid.

Explanation

The storage management console peers that are specified either as input, as command options, or in a profile file are not valid. The IP addresses might not be correct, or the storage management consoles might not be configured as peers.

Action

Specify valid peers, and then resubmit the task.

CMUC00220E COMMAND_INFO Connection failure: VALUE_0

Explanation

Connection to the specified storage management consoles failed.

Action

Ensure that the storage management console IP addresses are correct, that a network connection to the storage management consoles exists, and that the storage management consoles are available. Then resubmit the task.

CMUC00219X COMMAND INFO

Explanation

Action

CMUD00000l COMMAND_INFO Storage complex setting for storage image STORAGE_IMAGE_ID successfully modified.

Explanation

The storage complex settings have been successfully modified.

None.

CMUD00001I COMMAND_INFO Contact information for storage image STORAGE IMAGE ID successfully modified.

Explanation

Contact information for the specified storage image has been set successfully.

Action

None.

CMUD00002I COMMAND_INFO SNMP settings for storage image STORAGE_IMAGE_ID successfully modified.

Explanation

The SNMP setting for the specified storage image has been set successfully.

Action

None.

CMUD00003I COMMAND_INFO SMTP settings for storage image STORAGE_IMAGE_ID successfully modified.

Explanation

The SMTP settings for the specified storage image have been set successfully.

Action

None.

CMUD00004l COMMAND_INFO SIM settings for storage image STORAGE_IMAGE_ID successfully modified.

Explanation

Service Information Messages for zSeries for the specified storage image have been set successfully.

Action

None.

CMUD000051 COMMAND INFO Dial Home settings for storage image STORAGE IMAGE ID successfully modified.

Explanation

The Dial Home setting for the specified storage image has been set successfully.

Action

None.

CMUD000061 COMMAND INFO State Save successfully offloaded from STORAGE IMAGE ID to the management node.

Explanation

The State Save has been successfully offloaded from the specified storage image to the management node.

Action

None.

CMUD000071 COMMAND INFO PE packages for storage image STORAGE IMAGE ID successfully generated.

Explanation

PE package for the specified storage image has been successfully generated.

Action

None.

CMUD000081 COMMAND INFO Problem PROBLEM ID was successfully closed.

Explanation

The problem that you selected to close has been closed successfully.

Action

None.

CMUD00009W COMMAND INFO Are you sure you want to close problem PROBLEM ID ? [y/n]:

Explanation

Enter \mathbf{Y} to close the specified problem. Enter \mathbf{N} to not close the problem.

Enter Y to close the specified problem. Enter N to not close the problem.

CMUD00010I *COMMAND_INFO* Test problem record *VALUE_0* successfully created.

Explanation

The command successfully completed and created a test problem record.

Action

None.

CMUD00011E COMMAND_INFO The state, STATE, is invalid for the country, COUNTRY.

Explanation

When you are defining contact information, you must enter a valid state for the country in the address information.

Action

Redefine the state to match a valid state for the selected country.

CMUD00012E COMMAND_INFO No state save can be found on storage image STORAGE_IMAGE_ID.

Explanation

No state save can be found. This might be because no state save has been generated, because no state save has been generated since the last offload command was issued, or because an internal error has occurred.

Action

Verify that a state save should have been generated. If so, contact IBM technical support for assistance.

CMUD00013I COMMAND_INFO The following files have been copied from storage image STORAGE IMAGE ID: FILES.

Explanation

The files listed were copied, and the command completed successfully.

Action

None.

CMUD00014I COMMAND_INFO The following files have been sent to IBM: FILES.

Explanation

The listed files were transferred successfully to IBM.

Action

None.

CMUD00015E COMMAND_INFO Country COUNTRY is not a valid country.

Explanation

The specified country is not valid. See the **IBM TotalStorage DS Command-Line Interface User's Guide** for a list of valid countries.

Action

Specify a valid country and then resubmit the task.

CMUD00016E COMMAND_INFO Contact information must be provided. Run the setcontactinfo command with the following flags: FLAGS.

Explanation

Either you issued the **setdialhome -action enable** command before you entered all the information that is required, or you issued the **setcontactinfo** command without all the required flags.

Your company name, machine location, ship to country, and contact primary phone is required.

Action

Run the **setcontactinfo** command with the required flags.

CMUD00017E $COMMAND_INFO$ The -FLAG is not supported for machine type -MACHINE TYPE.

Explanation

The specified flag is not supported when you issue commands to storage units that are this machine type.

Action

Remove the flag and resubmit the task.

Chapter 3. DS Storage Manager messages

Graphical user interface messages

These messages are issued by the DS Storage Manager.

CMUG00000E Select an array from the table or create a new array. Explanation

To create a rank on an array, you must first select the array from the table of available arrays or create a new array.

Action

Select an array from the table of available arrays or create a new array by selecting the **Create new array** button.

CMUG00001E Select an extent pool from the table or create a new extent pool.

Explanation

You must associate the rank with an extent pool by selecting an extent pool from the table.

Action

Select an extent pool from the extent pool list or create a new extent pool by selecting the **Create new extent pool** button.

CMUG00002W The following volumes have storage configured on the ranks: $VALUE_0$. These volumes are deleted as part of the rank deletion process. Select Continue to delete the ranks and volumes. Select Cancel to cancel the operation.

Explanation

Deleting the ranks also deletes the volumes configured on the ranks.

Action

Select **Continue** to delete the ranks and volumes that are listed in the message. Select **Cancel** to cancel the operation.

CMUG00003W This operation removes ranks from the extent pools. Select OK to remove the ranks. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to remove the ranks from their extent pools.

Action

Select **OK** to remove the ranks from the extent pools. Select **Cancel** to cancel the operation.

CMUG00004W This operation deletes the selected ranks. Select OK to delete the ranks. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected unassigned ranks.

Action

Select **OK** to delete the ranks. Select **Cancel** to cancel the operation.

CMUG00005E Select at least one ID from the table of available LCU IDs.

Explanation

To create a logical control unit (LCU), you must select at least one ID from the table of available IDs.

Action

Select at least one LCU ID from the table of available LCU IDs.

CMUG00006W This operation deletes the selected LCUs. Select Continue to delete the LCUs. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the logical control units (LCUs) that you have selected.

Action

Select **Continue** to delete the LCUs. Select **Cancel** to cancel the operation.

CMUG00007W The following volumes have storage configured on the selected LCUs: $VALUE_0$. These volumes are deleted as part of the LCU deletion process. Select Continue to delete the LCUs. Select Cancel to cancel the operation.

Explanation

Deleting the logical control units (LCUs) deletes the volumes that are configured on the LCUs.

Action

Select **Continue** to delete the LCUs and volumes that are listed in the message. Select **Cancel** to cancel the operation.

CMUG00008E An SSID is required.

Explanation

To continue, you must enter a unique logical subsystem identifier (SSID) for the logical control units being created.

Action

Enter an SSID.

CMUG00009E An SSID must be a 4 hexadecimal digit non zero number. Explanation

The logical subsystem ID must be 4 hexadecimal digits long, in the range (0001 - FFFF).

Action

Enter a non zero 4 hexadecimal digit SSID in the correct format: (0 - 9, A - F). Example: 01AF.

CMUG00010E The SSID is not unique.

Explanation

The logical subsystem identifier (SSID) must be unique.

Action

Enter a unique SSID.

CMUG00011E Consistency group timeout required

Explanation

When you define or modify logical control units, you must enter a value in the consistency group timeout field.

Enter a positive integer value in the field.

CMUG00012E Consistency group timeout: A positive integer value is required.

Explanation

When you define or modify logical control units, you must enter a positive integer value in the consistency group timeout field. The field contains an invalid value.

Action

Enter a positive integer value in the field.

CMUG00013E Select at least one LCU.

Explanation

When you are defining volume characteristics, you must select at least one logical control unit from the selection box.

Action

Select at least one LCU from the selection box.

CMUG00014W This operation deletes volumes. Select OK to delete the volumes. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the volumes that you have selected.

Action

Select **OK** to delete the volumes. Select **Cancel** to cancel the operation.

CMUG00015E You must select an extent pool from which to create these volumes.

Explanation

You must select an extent pool from which the volumes are created.

Action

Select an extent pool from the table.

CMUG00016E VALUE 0 must be between VALUE 1 and VALUE 2.

Explanation

The entered value must be within the specified range that is provided in the message.

Action

Enter a value within the specified range.

CMUG00017E You must enter an alphabetic prefix or a numeric suffix. You may enter both.

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. If you enter a prefix only, all the volumes that you create will have the same nickname. If you enter a suffix only, the volumes that you create will be identified by a sequence of numerical volume nicknames. If you enter both a prefix and a suffix, the volume nicknames will all have the same prefix, and have numerically increasing suffixes.

Action

Enter a prefix, a suffix, or both.

CMUG00018E The value that you enter for a suffix must be a number.

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. If you enter a prefix only, all the volumes that you create will have the same nickname. If you enter a suffix only, the volumes that you create will be identified by a sequence of numerical volume nicknames. If you enter both a prefix and a suffix, the volume nicknames will all have the same prefix, and have numerically increasing suffixes.

Action

Enter a numerical value for the suffix.

CMUG00019E Volume nicknames must be unique within a storage image. Do you want VALUE 1 increased sequentially and concatenated to VALUE 0?

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. You are being asked to confirm that you want sequentially increasing suffixes appended to the prefix to create volume nicknames, starting with the value that you entered.

Select **OK** to use the prefix and number combination to create volume nicknames with sequentially increasing numbers. Select Cancel to enter names manually.

CMUG00020E Too few volume addresses are available to create the volumes specified. Select additional logical subsystems.

Explanation

You have checked the select LSS check box in the wizard, but either no logical subsystems are selected, or not enough logical subsystems are selected to provide valid addresses for the volumes that are being created.

Action

Select one or more logical subsystems from the list.

CMUG00021E Multiple volume creation is not permitted with automatic nickname sequence generation disabled.

Explanation

You have disabled automatic nickname sequence generation by unchecking the check box, but are creating more than one volume. This is not permitted.

Action

Create only one volume, or enable automatic nickname sequence generation by checking the check box.

CMUG00022E Select a volume group.

Explanation

You are defining volume characteristics in the wizard. The select volume groups check box has been checked, but no volume groups are selected.

Action

Select a volume group or uncheck the check box.

CMUG00023E You must select one volume to complete the operation. **Explanation**

Selecting a single volume is required for this operation. A volume is not selected, or multiple volumes are selected.

Action

Select a single volume.

CMUG00024E You must select at least one volume to complete the operation.

Explanation

Selecting one or more volumes is required for this operation. No volume is selected.

Action

Select at least one volume.

CMUG00025W Volumes will be deleted. Select OK to delete the volumes. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected volumes.

Action

Select **OK** to delete the volumes. Select **Cancel** to cancel the operation.

CMUG00026E You must select one extent pool.

Explanation

You must select an extent pool to continue. No extent pool is selected.

Action

Select an extent pool.

CMUG00027E VALUE 0 must be between VALUE 1 and VALUE 2.

Explanation

The entered value must be within the specified range in the message.

Action

Enter a value within the specified range.

CMUG00028E The ratio of alias volumes to base volumes must be expressible in whole numbers. Fractional ratios are not permitted.

Explanation

You can specify more aliases than base volumes, or you can specify more base volumes than aliases. In either case, the larger number must be evenly divisible by the smaller number, with no remainder.

You can assign 4 aliases to 1 base volume. The ratio is 4:1. You can assign 1 alias to 3 base volumes. The ratio is 1:3. You cannot assign 2 aliases to 5 base volumes. The ratio is 1:2.5.

Specify numbers of aliases and base volumes such that the larger number is evenly divisible by the smaller number.

CMUG00029E The number of table selections does not agree with the number entered in the text box.

Explanation

You must select the same number of volumes from the table as you indicated in the text box.

Action

Select the same number of volumes from the table, or change the number in the text box.

CMUG00030E No base volumes have been specified.

Explanation

To add aliases, the number of base volumes must be greater than zero.

Action

Specify at least one base volume, and then resubmit the task.

CMUG00031E The selected extent pool is too small. No volumes can be created.

Explanation

The size of the selected extent pool is smaller than the smallest possible volume size. No volumes can be created.

Action

Increase the size of the extent pool, select a larger extent pool, or specify a smaller volume size.

CMUG00032E All of the selected volumes must be of the same data type.

Explanation

All of the volumes in a volume group must be of the same data type. Not all of the selected volumes are of the same data type.

Action

Select volumes that are all of the same data type, and then resubmit the task.

CMUG00033E The specified combination of volume quantity and size exceeds the available space in the extent pool.

Explanation

The requested storage space exceeds the available storage space in the extent pool.

Action

Specify fewer volumes or a smaller volume size such that the requested space is less than or equal to the available space in the extent pool.

CMUG00034E Volume nicknames must be unique within a storage image. Do you want VALUE 1 increased sequentially and concatenated to VALUE 0?

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. You are being asked to confirm that you want sequentially increasing suffixes appended to the prefix to create volume nicknames, starting with the value that you entered.

Action

Select **OK** to use the prefix and number combination to create volume nicknames with sequentially increasing numbers. Select Cancel to enter names manually.

CMUG00035E Multiple volume creation is not permitted with automatic nickname sequence generation disabled.

Explanation

You have disabled automatic nickname sequence generation by unchecking the check box, but are creating more than one volume. This is not permitted.

Action

Create only one volume, or enable automatic nickname sequence generation by checking the check box.

CMUG00036E The value you enter for a suffix must be a number. **Explanation**

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. If you enter a prefix only, all the volumes that you create will have the same nickname. If you enter a suffix only, the volumes that you create will be identified by a sequence of numerical volume nicknames. If you enter both a prefix and a suffix, the volume nicknames will all have the same prefix, and have numerically increasing suffixes.

Enter a numerical value for the suffix.

CMUG00037E You must enter an alphabetic prefix or a numeric suffix. You may enter both.

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix followed by a number that increases sequentially. If you enter a prefix only, all the volumes you create will have the same nickname. If you enter a suffix only, the volumes you create will be identified by a sequence of numerical volume nicknames. If you enter both a prefix and a suffix, the volume nicknames will all have the same prefix, and have numerically increasing suffixes.

Action

Enter a prefix, a suffix, or both.

CMUG00038W Extent pools will be deleted. Select OK to delete the extent pools. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected extent pools.

Action

Select **OK** to delete the extent pools. Select **Cancel** to cancel the operation.

CMUG00039W The extent pools have volumes configured in them. These volumes will be deleted as part of the extent pool deletion process: VALUE O. Select Continue to delete the extent pools and volumes that are listed. Select Cancel to cancel the operation.

Explanation

Deleting the selected extent pools also deletes the volumes that are configured in the extent pools.

Action

Select Continue to delete the extent pools and volumes that are listed in the message. Select **Cancel** to cancel the operation.

CMUG00040E Nicknames must be no more than 16 characters long. **Explanation**

The entered nickname is longer than the allowed maximum length.

Enter a nickname 16 characters or shorter in length.

CMUG00041E The requested storage is not available. Only $VALUE_0$ GB is available.

Explanation

More storage space than the amount that is available has been requested.

Action

Enter an amount less than or equal to the amount available.

CMUG00042E No storage is available for this configuration. Explanation

You are attempting to define an extent pool, but no storage space is available.

Action

Add more storage to the storage image, or free storage space that is currently in use.

CMUG00044E Select a rank from the table or create a new rank. Explanation

You must choose at least one rank to assign to the extent pool. No rank is selected from the table.

Action

Select a rank from the available ranks table or select the **Create new ranks** button to create a rank.

CMUG00045E The number entered must be a percentage, entered as an integer between 0 and 100.

Explanation

Reserve storage must be entered as a percentage of total extent pool storage.

Action

Enter an integer between 0 and 100.

CMUG00046E The threshold amount is not available. Only $VALUE_\theta$ GB is available.

Explanation

You are requesting a threshold amount greater than the available amount.

Action

Enter an amount less than or equal to the available amount.

CMUG00047E Select an array site.

Explanation

When you create custom arrays, you must select at least one array site.

Action

Select at least one array site for the custom array.

CMUG00048E You must enter a number less than or equal to $VALUE_\theta$. Explanation

You have requested more arrays than can be created for the RAID type.

Action

Enter a number less than or equal to the number that is supplied in the message.

CMUG00049W The selected arrays and their associated ranks will be deleted. Select OK to delete the arrays and their associated ranks. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the arrays that you have selected. Any ranks built upon these arrays will be deleted also.

Action

Select \mathbf{OK} to delete the arrays and their associated ranks. Select \mathbf{Cancel} to cancel the operation.

CMUG00050W The following volumes have storage configured on the arrays: $VALUE_{-}\theta$. These volumes will be deleted as part of the array deletion process. Select Continue to delete the arrays and volumes. Select Cancel to cancel the operation.

Explanation

Deleting the arrays also deletes the volumes that are configured on the arrays.

Select **Continue** to delete the arrays and volumes that are listed in the message. Select **Cancel** to cancel the operation.

CMUG00051E Array creation is not possible. No array sites are available on the storage image.

Explanation

Arrays are created on array sites. You have selected the **Create arrays automatically** radio button, but the necessary resources are not available on the storage image.

Action

Add one or more array sites to the storage image, and then resubmit the task.

CMUG00052E A nickname is required.

Explanation

A nickname is required to continue the wizard.

Action

Enter a nickname.

CMUG00053E Select at least one volume.

Explanation

To continue, at least one volume must be selected from the table.

Action

Select one or more volumes from the table.

CMUG00054W The selected volume groups will be deleted. Select OK to delete the volume groups. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the volume groups that you have selected.

Action

Select **OK** to delete the volume groups. Select **Cancel** to cancel the operation.

CMUG00055E Select one or more host types.

Explanation

To create a volume group, you must select one or more host types that can be attached to the volume group. As you select types, the list of available types is automatically narrowed to a set of compatible host types.

Action

Select one or more host types from the list of available host types.

CMUG00056E A host nickname is required.

Explanation

A nickname for the host is necessary to complete this operation.

Action

Enter a host nickname.

CMUG00057E A host type is required to create a new host. Select a host type.

Explanation

A host type is required to create a new host. No host type is selected.

Action

Select a type from the list of host systems.

CMUG00058E The port quantity is required. Enter the quantity of ports for this type.

Explanation

To properly define host ports, you must identify the quantity of each type of port. No quantity is entered.

Action

Enter a quantity.

CMUG00059E The port type is required. Select a port type.

Explanation

To properly define host ports, you must identify the type of each port. No type is selected from the list.

Action

Select a type from the drop-down list.

CMUG00060E Select WWPNs for all the ports.

Explanation

For communication and security purposes, each host port is identified by its worldwide unique port name (WWPN). A list of names is provided in the drop-down box. You must identify each port in this host attachment by selecting a name from the list or manually entering a WWPN.

Action

To identify each port, select a WWPN from the list, or manually enter a WWPN.

CMUG00061E Select a host attachment identifier to connect to the storage image ports.

Explanation

To complete the link between host ports and storage image ports, you must associate a host attachment identifier with the storage image.

Action

Select a host attachment identifier from the table.

CMUG00062E At least one host port must be defined for this host system before data can be saved.

Explanation

As part of the process of creating a host system, you must define at least one port for that host.

Action

Define at least one host port before saving the host system data.

CMUG00063E At least one storage image must be selected for attachment to the newly defined host port.

Explanation

The newly defined SCSI host port is not attached to a storage image. You must select at least one storage image for attachment before the host data can be saved.

Action

Select a storage image to which the host port can be attached.

CMUG00064E A host nickname is required.

Explanation

You must identify the host system by supplying a host nickname before modifications can be performed.

Action

Enter a host nickname.

CMUG00065E The port quantity is required. Provide the number of ports for this host attachment.

Explanation

You are modifying a host attachment, but no quantity is entered.

Action

Enter the number of ports for this port type in the quantity field.

CMUG00066E The port type is required. Select a port type. **Explanation**

You are modifying a host attachment, but no port type is selected.

Action

Select the type of the ports for the attachment for the drop-down list.

CMUG00067E Select the WWPNs for all the ports for this host attachment.

Explanation

For communication and security purposes, each host port is identified by its worldwide unique port name (WWPN). A list of names is provided in the drop-down box. You must identify each port in this host attachment by selecting a name from the list or manually entering a WWPN.

Action

To identify each port, select a WWPN from the list, or manually enter a WWPN.

CMUG00068E Select a host attachment identifier to connect to the storage image ports.

Explanation

To complete the link between host ports and storage image ports, you must associate a host attachment identifier with the storage image.

Select a host attachment identifier from the table.

CMUG00069W These hosts will be deleted: $VALUE_\theta$. Select Continue to delete the hosts. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the hosts that you have selected.

Action

Select **Continue** to delete the hosts. Select **Cancel** to cancel the operation.

CMUG00070W The selected host attachment ports will be deleted. Select Continue to delete the host attachment ports. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the host attachment ports that you have selected.

Action

Select **Continue** to delete the host attachment ports. Select **Cancel** to cancel the operation.

CMUG00071E Select one or more of the choices below.

Explanation

You are in the process of importing data about a storage complex, and you are being asked to identify which type of data to import:

- · General storage complex settings.
- · All storage unit physical configurations.
- · All storage unit logical configurations.
- · All host attachments for the storage units.

You must select at least one of the check boxes to continue.

Action

Select one or more of the check boxes.

CMUG00072W The selected storage complexes will be deleted. Select OK to delete the storage complexes. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to remove the storage complexes that you have selected from the list.

Action

Select **OK** to delete the storage complexes. Select **Cancel** to cancel the operation.

CMUG00073E Storage complex authentication error.

Explanation

When you add a storage complex, its management console must be properly identified, and a valid user name and password must be supplied.

Action

Specify the correct management console IP address, user name, and password.

CMUG00074W You have selected a choice that initiates the power on sequence for this storage unit. Select OK to turn on power to the storage unit. Select Cancel to cancel the operation.

Explanation

If you proceed, the unit is turned on.

Action

Select **OK** to turn on the storage unit. Select **Cancel** to cancel the operation.

CMUG00075W You have selected a choice that will initiate the power off sequence for this storage unit. Select OK to turn off power to the storage unit. Select Cancel to cancel the operation.

Explanation

If you proceed, the unit is turned off.

Action

Select **OK** to turn off the storage unit. Select **Cancel** to cancel the operation.

CMUG00076W You have selected a choice that will force the offline sequence for this storage unit. Select OK to force the storage unit offline. Select Cancel to cancel the operation.

Explanation

If you proceed, the unit is forced offline.

Action

Select **OK** to force the storage unit offline. Select **Cancel** to cancel the operation.

CMUG00077W You have selected a choice that initiates the sequence to bring this storage unit online. Select OK to bring the storage unit online. Select Cancel to cancel the operation.

Explanation

If you proceed, the unit is brought online.

Action

Select **OK** to bring the storage unit online. Select **Cancel** to cancel the operation.

CMUG00078W You have selected a choice that initiates the sequence to take this storage unit offline. Select OK to take the storage unit offline. Select Cancel to cancel the operation.

Explanation

If you proceed, the unit is taken offline.

Action

Select **OK** to take the storage unit offline. Select **Cancel** to cancel the operation.

CMUG00079W Cannot perform the task. The storage unit is not online.

Explanation

You have submitted a task to a storage unit that is not online. The task cannot be performed by a system that is not online.

Action

Bring the system online, and then resubmit the task.

CMUG00080W Do you want to delete the simulated storage units STORAGE UNITS in the selected storage complexes as well? Select OK to delete the storage units. Select Continue to delete only the storage complexes. Select Cancel to cancel the operation.

Explanation

You have assigned simulated storage units to the storage complexes that you intend to delete. By selecting **OK** you will delete these storage units as well. By selecting Continue you will retain the storage units and continue to delete the storage complexes only. By selecting Cancel you will cancel the operation.

Action

Select **OK** to delete the simulated storage units. Select **Continue** to continue without deleting the storage units. Select Cancel to cancel the operation.

CMUG00081W Changing the physical configuration will clear the existing logical configuration. Select Continue to change the physical configuration of the storage unit and clear the existing logical configuration. Select Cancel to cancel the operation.

Explanation

Modifying the physical configuration of a simulated storage unit (in offline mode) makes any existing logical configuration obsolete. Any existing logical configuration is automatically deleted. By selecting Continue you will continue with the change and the logical configuration will be deleted. By selecting Cancel you will cancel the physical configuration change and retain the existing logical configuration.

Action

Select Continue to change the physical configuration and delete the logical configuration. Select Cancel to cancel the change.

CMUG00082E At least two DDM packs must be added to the Selected DDM packs table.

Explanation

You cannot continue the wizard before adding the minimum number of DDM packs to the **Selected DDM packs** table.

Action

Add at least two DDM packs to the **Selected DDM packs** table.

CMUG00083E Invalid I/O adapter quantity. The quantity must be between $VALUE_0$. and $VALUE_1$.

Explanation

An invalid adapter quantity has been specified. For any entry field, you can enter a value between 2 and 32. The total number of adapters for all fields must be less than or equal to 32.

Action

Specify a valid adapter quantity.

CMUG00084W The selected storage units will be deleted. Select OK to delete the storage units. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected storage units. By selecting **OK**, you will delete the storage units. By selecting **Cancel**, you will return to the wizard without deleting the storage units.

Action

Select **OK** to delete the storage units. Select **Cancel** to cancel the operation.

CMUG00085E Select a storage complex.

Explanation

You have elected to select a storage complex from a list of storage complexes, but no storage complex is selected.

Action

Select a storage complex from the list.

CMUG00086E Select a storage unit.

Explanation

You must select a storage unit from a list of storage units in the storage complex, but no storage unit is selected.

Action

Select a storage unit from the list.

CMUG00087E Select at least one storage image.

Explanation

You are loading a configuration to a storage unit that contains more than one storage image. You must select at least one storage image where the configuration

is to be applied from a list of the storage images on the storage unit. No storage image is selected.

Action

Select a storage image from the list.

CMUG00088E Select an xml file containing License Machine Code activation codes for this storage image.

Explanation

You have chosen to import your License Machine Code activation codes using an xml formatted file, but no file is selected.

Action

Select a file and select OK to import the activation codes. Select Cancel to cancel the operation.

CMUG00089E Incorrectly formatted License Machine Code activation codes file

Explanation

The file containing License Machine Code activation codes for this storage image is not the correct format. The file you select must be an xml formatted file that you have obtained from an authorized IBM source.

Action

Select the correct file and select **OK** to import the activation codes. Select **Cancel** to cancel the operation.

CMUG00090E Incorrect License Machine Code activation codes file **Explanation**

The selected file does not contain License Machine Code activation codes for this storage image. The file that you select must be an xml formatted file that you have obtained from an authorized IBM source, and it must contain activation codes designated for this storage image.

Action

Select the correct file and select **OK** to import the activation codes, or select Cancel to cancel the operation.

CMUG00091W The current License Machine Code activation codes will be overwritten by the codes being imported. Select Continue to overwrite the current codes with the new codes. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to overwrite the current License Machine Code activation codes with values imported from the file you selected.

Action

Select **Continue** to overwrite the current codes with the new codes. Select **Cancel** to cancel the operation.

CMUG00092W This operation applies the activation codes to the storage image. Select OK to apply the activation codes. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to apply the activation codes to the selected storage image.

Action

Select **OK** to apply the activation codes. Select **Cancel** to cancel the operation.

CMUG00093E You must add at least one host attachment to the storage image.

Explanation

Before information about your newly defined host can be saved, you must add at least one host attachment to the storage image.

Action

Add at least one host attachment, and then resubmit the task.

CMUG00094E Unable to attach host. No I/O port is selected.

Explanation

You have selected a host to attach to an I/O port, but no I/O port is selected from the table.

Action

Select an I/O port from the table of available ports, and then resubmit the task.

CMUG00095E Unable to attach host. No compatible I/O ports are available on the storage image.

Explanation

You have selected a host to attach to an I/O port, but no compatible I/O ports are available on the storage image.

Action

Add a compatible I/O port to the storage image or make an existing port available, and then resubmit the task.

CMUG00096E Model 2105 storage unit authentication error

Explanation

You are adding a model 2105 Enterprise Storage Server Copy Services domain, but the authentication information provided produced an error.

Action

Provide a valid IP address, user name, and password.

CMUG00097W This operation deletes the selected enterprise configuration. Select OK to delete the configuration. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected enterprise configuration.

Action

Select **OK** to delete the enterprise configuration. Select **Cancel** to cancel the operation.

CMUG00098W Only one enterprise configuration can be open at any time. Select OK to save the current configuration. Select Continue to continue without saving the current configuration.

Explanation

You are being asked if you want to save the current enterprise configuration before you open the selected configuration.

Action

Select **OK** to save the current enterprise configuration. Select **Continue** to continue without saving the current configuration.

CMUG00099W Select an xml file that contains an enterprise configuration.

Explanation

This process imports an enterprise configuration by reading an xml file on your file system. No xml file is selected, or the file cannot be found.

Action

Select an enterprise configuration file that is in the correct xml format, and then resubmit the task.

CMUG00100E Unable to connect to the specified storage management console.

Explanation

The DS Storage Manager is unable to connect to the specified storage management console. This might be because the specified IP address is incorrect, because the storage management console is not online, or because a network path is not available.

Action

Ensure that the specified IP address is correct, that the storage management console is available, and that the network is functioning.

CMUG00101E The IP address of management console 2 cannot be the same as the IP address of management console 1.

Explanation

You are being asked to provide the IP addresses of two different storage management consoles.

Action

Enter two distinct IP addresses, and then resubmit the task.

CMUG00102E Select unique WWPNs for ports $VALUE_\theta$.

Explanation

Host ports must have unique worldwide port names (WWPNs). The same WWPN is selected more than once.

Action

Select unique WWPNs for each port, and then resubmit the task.

CMUG00103E Enter unique WWPNs for ports VALUE_0.

Explanation

Host ports must have unique worldwide port names (WWPNs). The same WWPN is entered more than once.

Action

Enter unique WWPNs for each port, and then resubmit the task.

CMUG00104E Unable to attach host port PORT. WWPNs WWPN_IDs are being used by another host port on storage image IMAGE.

Explanation

Host ports must have unique worldwide port names (WWPNs). The specified WWPN is being used by another host port on the storage image.

Action

Select unique WWPNs for the port, and then resubmit the task.

CMUG00105W These ranks will be deleted from the selected extent pool: $VALUE_\theta$. Select Continue to delete the ranks that are listed. Select Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the ranks.

Action

Select **Continue** to delete the ranks that are listed in the message. Select **Cancel** to cancel the operation.

CMUG00106E The specified storage complex is incompatible with this DS Storage Manager software.

Explanation

If you are using the DS8000 Storage Manager, you cannot connect to a DS6000 storage complex. If you are using the DS6000 Storage Manager, you cannot connect to a DS8000 storage complex.

Action

Specify the IP address of a compatible storage complex, and then resubmit the task.

CMUG00107E A nickname must be between 1 and 16 characters long. Explanation

You must specify a nickname that is between 1 and 16 characters in length.

Action

Specify a nickname between 1 and 16 characters long, and then resubmit the task.

CMUG00108E You must select at least one array site before you can continue.

Explanation

To create an array, you must first select an array site.

Action

Select an array site from the table, and then resubmit the task.

CMUG00109E These ranks have extents in use and they cannot be removed from the extent pool: RANKS.

Explanation

A rank can be removed from an extent pool only if there are no extents on that rank in use.

Action

Specify different ranks or remove any volumes that use extents from the ranks, and then resubmit the task.

CMUG00110E The number of selections in the table must be a whole number multiple of the number of base volumes you enter. Fractional ratios are not permitted.

Explanation

The number of base volumes must be equal to the number of selections in the table, or the number of selections must be a whole number multiple of the number of base volumes.

Action

Specify a number of base volumes or select from the table such that the number of selections is evenly divisible by the number of base volumes.

CMUG00111E The nickname NICKNAME is already used for another host. Enter a unique nickname.

Explanation

The nickname that you specified is not unique. A unique nickname is required.

Action

Specify a unique nickname, and then resubmit the task.

CMUG00112E The storage complex found at the specified IP address is offline. Only online storage complexes can be added when using the Realtime Manager.

Explanation

The Realtime Manager tool cannot accept connections to offline storage complexes.

Action

Place the storage complex online or select another storage complex that is online, and then resubmit the task.

CMUG00113E The total number of aliases and bases that are to be created exceeds the number of available addresses in the selected LCUs.

Explanation

You cannot create more aliases and bases than the number of available addresses in the selected logical control units.

Action

Either reduce the number of aliases that you want to create or select more logical control units in the define volume characteristics step.

CMUG00114E The number of fibre channel port I/O adapters cannot be 1. You must have at least 2 of the same adapter if you are configuring an adapter.

Explanation

You must specify a valid number of short wave and long wave I/O adapters (2 - 32) when you are configuring the I/O adapters for a storage unit. The cumulative sum of all adapters must be greater than or equal to 2 and less than or equal to 32. You must have at least 2 of the same adapter before incrementing by one.

Action

Enter the number of short wave adapters (0, 2 - 32). Do not enter 1.

CMUG00115E Select a machine model from the list.

Explanation

The model is required.

Action

Select a model from the list, and then resubmit the task.

CMUG00116E Storage image ID has been configured on this storage management console, but it is not accessible at this time.

Explanation

The storage image may be unavailable for one of the following reasons:

- · The storage unit is powered off.
- · The network connection to the storage unit has been removed or has failed.
- The storage unit has multiple storage images, and the specified storage image has been deconfigured.

Action

Ensure that the storage unit is powered on and available, and that the storage image is still configured. If the problem persists, contact IBM technical support for assistance.

CMUG00117I The default enterprise is being opened.

Explanation

The default enterprise database is being opened to ensure that your offline configuration is stored properly.

Action

None.

CMUG00118W This operation changes the configuration of the selected I/O ports. Changing the configuration might make the ports unusable by hosts that are now attached to them. Select Continue to change the I/O port configuration. Select Cancel to cancel the operation.

Explanation

The operation that you selected changes the configuration of the selected I/O ports. If those ports have hosts that are attached to them, the hosts might not be able to access data using the ports.

Select **Continue** to reconfigure the selected I/O ports. Select **Cancel** to cancel the operation.

CMUG00119E Invalid value: $VALUE_0$ entered for $VALUE_1$. The WWPN must be a hexadecimal number between VALUE 2 and VALUE 3.

Explanation

The port specification contains an invalid value for the worldwide port name of a host port. You must enter a hexadecimal number within the specified range.

Action

Enter a valid hexadecimal number within the specified range.

CMUG00120W The following hosts are attached to incompatible ports: $VALUE_\theta$. The hosts might be unable to communicate using these ports.

Explanation

Another user might have modified the I/O port topology at the same time that you modified or created the host attachment. For example, a host port with the attachment type FCAL might be attached to I/O ports that have their topology set to FICON.

Action

Move the host cables to compatible I/O ports, or select the **Configure I/O Ports** button at the bottom of the screen and then reconfigure the I/O ports.

CMUG00121W The selected volume size is compatible with only iSeries V5R3.

Explanation

The selected volume size is compatible with only iSeries V5R3. It is not compatible with other systems.

Action

Ensure that the volume is connected to only iSeries V5R3 systems, or select another volume size.

CMUG00122E Unable to create volume. No extent pools are available.

Explanation

Either no extent pools are configured or insufficient space is available on the configured extent pools.

Configure one or more additional extent pools, and then resubmit the task.

CMUG00123E The selected storage complexes do not exist in the current configuration.

Explanation

You began to delete one or more storage complexes from an enterprise, but the enterprise configuration changed or the enterprise was closed before you completed the task for the following possible reasons:

- · The storage complexes were deleted from another session.
- The enterprise was closed and you are now configuring another enterprise.
- The network connection to the storage complexes failed.

Action

Close the current panels and reopen the enterprise. If the problem persists, contact IBM technical support for assistance.

CMUG00124E Invalid logical volume size. See the help text for this message for valid sizes.

Explanation

The specified volume size is not supported on all platforms. Supported logical volume sizes are microcode level dependent.

For DS microcode levels 5.0.3 and above:

- Supported Enterprise Storage System (ESS) logical volume sizes range from 0.1 to 982.2 decimal gigabytes (1GB = 10^9 bytes). You can calculate the exact number of 512 byte blocks as INT((INT(GBx10^9/512)+63)/64)x64. The size of the volume that is created on the ESS is identical to the size of the volume that is created on the DS.
- Supported DS logical volume sizes range from 1 to 2048 binary gigabytes (1GB = 2^30 bytes). This allocation uses the storage capacity of DS systems most efficiently.
- Supported block logical volume sizes range from 1 to 4 binary gigablocks (1 gigablock = 2^30 512-byte blocks). If a specified size matches a supported DS or ESS logical volume size, the volume is identified as a DS or ESS logical volume, even though it is created by specifying the blocks volume type.
- Supported iSeries logical volume sizes are expressed in decimal gigabytes (1GB = 10⁹ bytes):

```
A0 (8.6 GB protected)
A02 (17.5 GB protected)
A04 (70.5 GB protected)
A05 (35.1 GB protected)
A06 (141.12 GB protected)
A07 (282.25 GB protected)
A81 (8.6GB, unprotected)
A82 (17.5 GB unprotected)
A84 (70.5 GB unprotected)
A85 (35.1 GB unprotected)
A86 (141.12 GB unprotected)
A87 (282.25 GB unprotected)
```

For DS microcode levels 5.0.1 and 5.0.2, block logical volume sizes must be a multiple of 128, and ESS logical volume sizes must be in the following list:

0.1 (0.1) 0.9 (0.8) 1.7 (1.6) 2.5 (2.3) 3.3 (3.1) 3.7 (3.4) 4.5 (4.2) 5.3 (4.9) 6.1 (5.7) 7.0 (6.5) 7.8 (7.3) 8.6 (8.0) 9.4 (8.8) 10.3 (9.6) 11.1 (10.3) 11.9 (11.1) 12.7 (11.8) 13.6 (12.7) 14.4 (13.4) 15.2 (14.2) 16.0 (14.9) 16.9 (15.7) 17.7 (16.5) 18.5 (17.2) 19.3 (18.0) 20.1 (18.7) 20.9 (19.5) 21.7 (20.2) 22.5 (21.0) 23.3 (21.7) 24.1 (22.4) 24.9 (23.2) 25.7 (23.9) 26.5 (24.7) 27.3 (25.4) 28.1 (26.2) 28.9 (26.9) 29.3 (27.3) 30.1 (28.0) 30.9 (28.8) 31.7 (29.5) 32.6 (30.4) 33.4 (31.1) 34.2 (31.9) 35.0 (32.6) 35.9 (33.4) 36.7 (34.2) 37.5 (34.9) 38.3 (35.7) 39.2 (36.5) 40.0 (37.3) 40.8 (38.0) 41.6 (38.7) 42.5 (39.6) 43.3 (40.3) 44.1 (41.1) 44.9 (41.8) 45.7 (42.6) 46.5 (43.3) 47.3 (44.1)	0.2 (0.2) 1.0 (0.9) 1.8 (1.7) 2.6 (2.4) 3.4 (3.2) 4.2 (3.9) 5.0 (4.7) 5.8 (5.4) 6.7 (6.2) 7.5 (7.0) 8.3 (7.7) 9.1 (8.5) 10.0 (9.3) 10.8 (10.1) 11.6 (10.8) 12.4 (11.5) 13.3 (12.4) 14.1 (13.1) 14.9 (13.9) 15.7 (14.6) 16.6 (15.5) 17.4 (16.2) 18.2 (17.0) 19.0 (17.7) 19.4 (18.1) 20.2 (18.8) 21.0 (19.6) 21.8 (20.3) 22.6 (21.0) 23.4 (21.8) 24.2 (22.5) 25.0 (23.3) 25.8 (24.0) 26.6 (24.8) 27.4 (25.5) 28.2 (26.3) 29.0 (27.0) 29.8 (27.8) 30.6 (28.5) 31.4 (29.2) 32.3 (30.1) 33.1 (30.8) 33.9 (31.6) 34.7 (32.3) 35.6 (33.2) 36.4 (33.9) 37.2 (34.6) 38.9 (36.2) 39.7 (37.0) 40.5 (37.7) 41.3 (38.5) 42.2 (39.3) 43.0 (40.0) 43.8 (40.8) 44.6 (41.5) 45.0 (41.9) 45.8 (42.7) 46.6 (43.4)	0.3 (0.3) 1.1 (1.0) 1.9 (1.8) 2.7 (2.5) 3.5 (3.3) 4.3 (4.0) 5.1 (4.7) 5.9 (5.5) 6.8 (6.3) 7.6 (7.1) 8.4 (7.8) 9.2 (8.6) 10.1 (9.4) 10.9 (10.2) 11.7 (10.9) 12.5 (11.6) 13.4 (12.5) 14.2 (13.2) 15.0 (14.0) 15.8 (14.7) 16.7 (15.6) 17.5 (16.3) 18.3 (17.0) 19.1 (17.8) 19.9 (18.5) 20.7 (19.3) 21.5 (20.0) 22.3 (20.8) 22.7 (21.1) 23.5 (21.9) 24.3 (22.6) 25.1 (23.4) 25.9 (24.1) 26.7 (24.9) 27.5 (25.6) 28.3 (26.4) 29.1 (27.1) 29.9 (27.8) 30.7 (28.6) 31.5 (29.3) 32.4 (30.2) 33.2 (30.9) 34.0 (31.7) 34.8 (32.4) 35.7 (33.2) 36.5 (34.0) 37.3 (34.7) 38.1 (35.5) 39.0 (36.3) 39.8 (37.1) 40.6 (37.8) 41.4 (38.6) 42.3 (39.4) 43.1 (40.1) 43.9 (40.9) 44.7 (41.6) 45.5 (42.4) 46.3 (43.1) 47.1 (43.6)	0.4 (0.4) 1.2 (1.1) 2.0 (1.9) 2.8 (2.6) 3.6 (3.4) 4.4 (4.1) 5.2 (4.8) 6.0 (5.6) 6.9 (6.4) 7.7 (7.2) 8.5 (7.9) 9.3 (8.7) 10.2 (9.5) 11.0 (10.2) 11.8 (11.0) 12.6 (11.7) 13.5 (12.6) 14.3 (13.3) 15.1 (14.1) 15.9 (14.8) 16.8 (15.6) 17.6 (16.4) 18.4 (17.1) 19.2 (17.9) 20.0 (18.6) 20.8 (19.4) 21.6 (20.1) 22.4 (20.9) 23.2 (21.6) 24.0 (22.4) 24.8 (23.1) 25.6 (23.8) 26.0 (24.2) 26.8 (25.0) 27.6 (25.7) 28.4 (26.4) 29.2 (27.2) 30.0 (27.9) 30.8 (28.7) 31.6 (29.4) 32.5 (30.3) 33.3 (31.0) 34.1 (31.8) 34.9 (32.5) 35.8 (33.3) 36.6 (34.1) 37.4 (34.8) 38.2 (35.6) 39.1 (36.4) 39.9 (37.2) 40.7 (37.9) 41.5 (38.6) 42.4 (39.5) 43.2 (40.2) 44.0 (41.0) 44.8 (41.7) 45.6 (42.5) 46.4 (43.2) 47.2 (44.0) 47.2 (44.0) 47.2 (44.0)
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44.1 (41.1)	44.6 (41.5)	44.7 (41.6)	44.8 (41.7)
44.9 (41.8)	45.0 (41.9)	45.5 (42.4)	45.6 (42.5)
45.7 (42.6)	45.8 (42.7)	46.3 (43.1)	46.4 (43.2)

```
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                  53.0 (49.4)
                                    53.1 (49.5)
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                                    55.5 (51.7)
                                                      55.6
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                                    57.1 (53.2)
                                                      57.2 (53.3)
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                  57.9 (53.9)
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                                    58.8 (54.8)
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                                  209.9 (195.5)
210.1 (195.7)
                 210.6 (196.1)
                                  210.7 (196.2)
                                                   210.8 (196.3)
210.9 (196.4)
                 211.5 (197.0)
                                  211.6 (197.1)
                                                   211.7 (197.2)
211.8 (197.3)
                 212.3 (197.7)
                                  212.4 (197.8)
                                                   212.5 (197.9)
                 213.1 (198.5)
                                  213.2 (198.6)
212.6 (198.0)
                                                   213.3 (198.7)
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213.4	(198.7)	213.9	,	214.0	(199.3)	214.1	(199.4)
214.2	(199.5)		(200.0)	214.9		215.0	(200.2)
215.1	(200.3)	215.6	• •	215.7	(200.9)	215.8	(201.0)
215.9	(201.1)	216.4	. ,	216.5	(201.6)	216.6	(201.7)
216.7	(201.8)	217.2	(202.3)	217.3	(202.4)	217.4	(202.5)
217.5	(202.6)	218.1	(203.1)	218.2	(203.2)	218.3	(203.3)
218.4	(203.4)	218.9	(203.9)	219.0	(204.0)	219.1	(204.1)
219.2	(204.1)	219.7	(204.6)	219.8	(204.7)	219.9	(204.8)
220.0	(204.9)	220.5	(205.4)	220.6	(205.4)	220.7	(205.5)
220.8	(205.6)	221.4	(206.2)	221.5	(206.3)	221.6	(206.4)
221.7	(206.5)	222.2	(206.9)	222.3	(207.0)	222.4	(207.1)
222.5	(207.2)	223.0	(207.7)	223.1	(207.8)	223.2	(207.9)
223.3	(208.0)	223.8	(208.4)	223.9	(208.5)	224.0	(208.6)
224.1	(208.7)	224.2	(208.8)	224.7	(209.3)	224.8	(209.4)
224.9	(209.5)	225.0		225.5	(210.0)	225.6	(210.1)
225.7	(210.2)	225.8		226.3	(210.8)	226.4	(210.9)
226.5	(210.9)	226.6	(211.0)	227.1	(211.5)	227.2	(211.6)
227.3	(211.7)	227.4	(211.8)	227.5	(211.9)	228.0	(212.3)
228.1	(212.4)	228.2		228.3	(212.6)	228.8	(213.1)
228.9	(213.2)	229.0	(213.3)	229.1	(213.4)	229.6	(213.8)
229.7	(213.9)	229.8	(214.0)	229.9	(214.1)	230.4	(214.6)
230.5	(214.7)	230.6	(214.8)	230.7	(214.9)	230.8	(214.9)
231.3	(215.4)	231.4		231.5	(215.6)	231.6	(215.7)
232.1	(216.2)	232.2	(216.3)	232.3	(216.3)	232.4	(216.4)
232.9	(216.9)	233.0	(217.0)	233.1	(217.1)	233.2	(217.2)
233.7	(217.7)		(217.7)	233.9		234.0	(217.9)
234.1	(218.0)		(218.5)	234.7	(218.6)	234.8	(218.7)
234.9	(218.8)	235.4		235.5	(219.3)	235.6	(219.4)
235.7	(219.5)	236.2		236.3	(220.1)	236.4	(220.2)
236.5	(220.3)	237.1	(220.8)	237.2	(220.9)	237.3	(221.0)
237.4	(221.1)	237.9	(221.6)	238.0	(221.7)	238.1	(221.7)
238.2	(221.8)	238.7		238.8	(222.4)	238.9	(222.5)
239.0	(222.6)	239.5	(223.1)	239.6	(223.1)	239.7	(223.2)
239.8	(223.3)	240.4	(223.9)	240.5	(224.0)	240.6	(224.1)
240.7	(224.2)	241.2	(224.6)	241.3	(224.7)	241.4	(224.8)
241.5 242.3	(224.9)	242.0	(225.4)	242.1 242.9	(225.5)	242.2	(225.6) (226.3)
242.3	(225.7) (226.4)	242.8 243.7	(226.1) (227.0)	242.9	(226.2) (227.1)	243.0 243.9	(227.1)
244.0	(220.4) (227.2)	244.5	(227.0)	243.6	(227.1) (227.8)	243.9	(227.1) (227.9)
244.8	(227.2) (228.0)	245.3	(228.5)	245.4	(228.5)	245.5	(228.6)
245.6	(228.7)	246.1	(229.2)	246.2	(229.3)	246.3	(229.4)
246.4	(229.5)	247.0	(230.0)	247.1	(230.1)	247.2	(230.2)
247.3	(230.3)	247.8	1 1	247.9		248.0	(231.0)
248.1	(231.1)		(231.5)	248.7		248.8	(231.7)
248.9	(231.8)	249.4	(232.3)	249.5	(232.4)	249.6	(232.5)
249.7	(232.6)		(232.6)	250.3	(233.1)	250.4	(233.2)
250.5	(233.3)		(233.4)	251.1		251.2	(233.9)
251.3	(234.0)		(234.1)	251.9			(234.7)
252.1	(234.8)	252.2	(234.9)	252.7	(235.3)		(235.4)
252.9	(235.5)	253.0	(235.6)	253.1	(235.7)	253.6	(236.2)
253.7	(236.3)	253.8	(236.4)	253.9	(236.5)	254.4	(236.9)
254.5	(237.0)	254.6	(237.1)	254.7	(237.2)	255.2	(237.7)
255.3	(237.8)	255.4	(237.9)	255.5	(238.0)	256.0	(238.4)
256.1	(238.5)	256.2	(238.6)	256.3	(238.7)	256.4	(238.8)
256.9	(239.3)	257.0	(239.3)	257.1	(239.4)	257.2	(239.5)
257.7	(240.0)	257.8	(240.1)	257.9		258.0	(240.3)
258.5	(240.7)		(240.8)	258.7			(241.0)
259.3	(241.5)		(241.6)	259.5	(241.7)	259.6	(241.8)
259.7	(241.9)	260.2	• •		(242.4)	260.4	(242.5)
260.5	(242.6)		(243.1)	261.1	(243.2)	261.2	(243.3)
261.3	(243.4)		(243.8)	261.9		262.0	(244.0)
262.1	(244.1)	262.7			(244.8)	262.9	(244.8)
	(244.9)		(245.4)		(245.5)	263.7	(245.6)
263.8 264.6	(245.7) (246.4)	264.3	(246.1) (246.9)		(246.2) (247.0)	264.5 265.3	(246.3) (247.1)
	(247.2)		(247.7)	266.1		266.2	(247.1) (247.9)
	(247.2)		(247.7)	266.9	. ,		(248.7)
_50.5	(= .0.0)	_50.0	(= .0.0)	_50.5	(= .0.0)	_ 57.0	(= 10.7)

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319.9 (297.9)
                 320.5 (298.5)
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                                                   320.7 (298.7)
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320.8	(298.8)	321.3	(299.2)	321.4	(299.3)	321.5	(299.4)
321.6	(299.5)	322.1	(300.0)	322.2	(300.1)	322.3	(300.2)
322.4	(300.3)	322.9	(300.7)	323.0	(300.8)	323.1	(300.9)
323.2	(301.0)	323.8	(301.6)	323.9	(301.7)	324.0	(301.7)
324.1	(301.8)	324.6	(302.3)	324.7	(302.4)	324.8	(302.5)
324.9	(302.6)	325.4	(303.1)	325.5	(303.1)	325.6	(303.2)
325.7	(303.3)	326.2	(303.8)	326.3	(303.9)	326.4	(304.0)
326.5	(304.1)	326.6	(304.2)	327.1	(304.6)	327.2	(304.7)
327.3	(304.8)	327.4	(304.9)	327.9	(305.4)	328.0	(305.5)
328.1	(305.6)	328.2	(305.7)	328.7	(306.1)	328.8	(306.2)
328.9	(306.3)	329.0	(306.4)	329.5	(306.9)	329.6	(307.0)
329.7	(307.1)	329.8	(307.2)	329.9	(307.2)	330.4	(307.7)
330.5	(307.8)	330.6	(307.9)	330.7	(308.0)	331.2	(308.5)
331.3	(308.5)	331.4	(308.6)	331.5	(308.7)	332.0	(309.2)
332.1	(309.3)	332.2	(309.4)	332.3	(309.5)	332.8	(309.9)
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333.7	(310.8)	333.8		333.9	(311.0)	334.0	(311.1)
334.5	(311.5)	334.6	(311.6)	334.7	(311.7)	334.8	(311.8)
335.3	(312.3)	335.4	(312.4)	335.5	(312.5)	335.6	(312.6)
336.1	(313.0)	336.2	(313.1)	336.3	(313.2)	336.4	(313.3)
336.5	(313.4)	337.0	(313.9)	337.1	(313.9)	337.2	(314.0)
337.3	(314.1)	337.8	(314.6)	337.9	(314.7)	338.0	(314.8)
338.1	(314.9)	338.6		338.7	(315.4)	338.8	(315.5)
338.9	(315.6)	339.5	(316.2)	339.6	(316.3)	339.7	(316.4)
339.8	(316.5)	340.3	(316.9)	340.4	(317.0)	340.5	(317.1)
340.6	(317.2)	341.1		341.2	(317.8)	341.3	(317.9)
341.4	(318.0)	341.9	(318.4)	342.0	(318.5)	342.1	(318.6)
342.2	(318.7)	342.8	(319.3)	342.9	(319.4)	343.0	(319.4)
343.1	(319.5)	343.6	(320.0)	343.7	(320.1)	343.8	(320.2)
343.9	(320.3)	344.4	(320.7)	344.5	(320.8)	344.6	(320.9)
344.7	(321.0)	345.2	(321.5)	345.3	(321.6)	345.4	(321.7)
345.5	(321.8)	346.1	(322.3)	346.2	(322.4)	346.3	(322.5)
346.4	(322.6)	346.9	(323.1)	347.0	(323.2)	347.1	(323.3)
347.2	(323.4)	347.7	(323.8)	347.8	(323.9)	347.9	(324.0)
348.0	(324.1)	348.5	(324.6)	348.6	(324.7)	348.7	(324.8)
348.8	(324.8)	349.4	(325.4)	349.5	(325.5)	349.6	(325.6)
349.7	(325.7)	350.2	(326.1)	350.3	(326.2)	350.4	(326.3)
350.5	(326.4)	351.0	(326.9)	351.1	(327.0)	351.2	(327.1)
351.3	(327.2)	351.8	(327.6)	351.9	(327.7)	352.0	(327.8)
352.1	(327.9)	352.2	(328.0)	352.7	(328.5)	352.8	(328.6)
352.9	(328.7)	353.0	(328.8)	353.5	(329.2)	353.6	(329.3)
353.7	(329.4)	353.8	(329.5)	354.3	(330.0)	354.4	(330.1)
354.5	(330.2)	354.6	(330.2)	355.1	(330.7)	355.2	(330.8)
355.3	(330.9)	355.4		355.5	(331.1)	356.0	(331.6)
356.1	(331.6)		(331.7)	356.3	(331.8)	356.8	(332.3)
356.9	(332.4)		(332.5)	357.1	(332.6)	357.6	(333.0)
357.7	(333.1)		(333.2)	357.9			(333.8)
358.5	(333.9)		(334.0)	358.7			(334.2)
359.3	(334.6)		(334.7)	359.5	(334.8)	359.6	(334.9)
360.1	(335.4)	360.2		360.3		360.4	(335.6)
	(336.1)		(336.2)	361.1			(336.4)
361.7	(336.9)		(337.0)	361.9			(337.1)
362.1	(337.2)		(337.7)	362.7			(337.9)
	(338.0)		(338.4)	363.5	(338.5)		(338.6)
363.7	(338.7)		(339.2)		(339.3)		(339.4)
	(339.5)	365.1		365.2	(340.1) (340.9)		(340.2)
365.4 366.2	(340.3) (341.1)	365.9			• •	366.1	(341.0)
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	(341.6)	367.5	(343.1)		(342.4)	368.6	(343.3)
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	(344.1)		(344.6)	370.1		370.2	(344.8)
	(344.9)		(345.3)		(345.4)		(345.5)
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	408.8)		(409.2)	439.5	(409.3)	439.6	(409.4)
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	414.9)		(415.4)	446.1	(415.5)	446.2	(415.6)
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	416.4)		(416.9)	447.7	(417.0)	447.8	(417.0)
	417.1)		(417.7)	448.6	(417.8)	448.7	(417.9)
	418.0)		(418.4)		(418.5)	449.5	(418.6)
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	420.2)		(420.8)	451.9	(420.9)	452.0	(421.0)
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,	423.3)		(423.4)	455.1	(423.1)	455.2	(423.2)
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,	424.8)		(424.9)	456.7	(425.3)	456.8	(425.4)
,	425.5)		(425.6)	457.5	(426.1)	457.6	(426.2)
•	426.3)		(426.4)	457.9	(426.5)	458.4	(426.9)
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Specify a valid volume size and then resubmit the task.

CMUG00125E The local storage complex cannot be removed from this configuration.

Explanation

This configuration is maintained on the local storage complex. If you remove the local storage complex, no more configuration changes can be recorded.

Action

Select a different storage complex to remove, or close the form.

CMUG00126 The specified volume size will be rounded up to the next valid binary value: $VALUE_{-}\theta$ GB.

Explanation

Because volume sizes can be specified in either binary or decimal notation, all algorithms round volume sizes up to ensure that the volumes do not overlap. The specified volume size will be rounded up to the next valid binary volume size.

Action

None.

CMUG00127E No volume groups exist. You must create a volume group before you can continue.

Explanation

You must create at least one volume group before you can add a volume to a volume group.

Action

Create at least one volume group, and then resubmit the task.

CMUG00128E These storage images are already logically configured: $VALUE \ \theta$. Reconfiguring a configured storage image is not supported. **Explanation**

One or more configured storage images are specified. Reconfiguring a storage image that is already configured is not supported.

Action

Either specify storage images that are not already configured, or use the Real-time Manager to remove the logical configuration of the storage images and then resubmit the Apply Configuration task.

CMUG00129E The management console server is not available. **Explanation**

Either the DS Storage Manager is unable to connect to the storage management console, or the storage management console is unable to connect to a storage unit. Either condition might be the result of one of the following reasons:

- · The storage management console IP address is incorrect.
- · A network path is not available.
- · The storage management console is not online.
- · The storage unit is not online.

Action

Ensure that the storage management console IP address is correct, that the network is functioning, that the storage management console is available, and that the storage unit is online.

CMUG00130W Host information cannot be retrieved from storage complex NICKNAME.

Explanation

The information that is displayed might be incomplete because host information cannot be retrieved from the specified storage complex.

Ensure that the storage complex is online and that a network connection is available. Then resubmit the task.

CMUG00131E The specified location for adapter ADAPTER is already in use.

Explanation

The location that you specified for the adapter is already in use.

Action

Specify an unused adapter location and then resubmit the task.

CMUG00132E You must select from each combo box to fully specify the location of adapter ADAPTER.

Explanation

You must select image, rack, enclosure, and position to fully specify the location of the adapter.

Action

Fully specify the location of the adapter and then resubmit the task.

CMUG00133E The specified IP address already is assigned to a defined storage complex.

Explanation

Storage complex IP addresses must be unique. The specified IP address is already in use.

Action

Specify a unique IP address or change the IP address already in use, and then resubmit the task.

CMUG00134E Select only volumes that have aliases and are in the same relationship.

Explanation

Aliases cannot be removed because one or more of the selected volumes is not part of the same relationship or it does not have an alias.

Action

Select only volumes that have aliases and are in the same relationship, and then resubmit the task.

CMUG00135E The selected storage unit is not available.

Explanation

The configuration cannot be applied to the selected storage unit because the storage unit is not online in a normal state.

Action

Ensure that the storage unit is available and then resubmit the task, or select a different storage unit.

CMUG00136E The selected storage image is not available.

Explanation

The configuration cannot be applied to the selected storage image because the storage image is not online in a normal state.

Action

Ensure that the storage image is available and then resubmit the task, or select a different storage image.

CMUG00137E A volume group cannot contain more than 256 volumes when you specify the map 256 addressing method. Reduce the number of selected volumes.

Explanation

You cannot select more than 256 volumes if you selected map 256 addressing as your volume group addressing method.

Action

Select 256 or fewer volumes, or return to the Define volume group properties step and select an addressing method other than Map 256 Addressing.

CMUG00138E The specified configuration file is not the correct format. Configuration files have a .cfr file name extension.

Explanation

To import storage units from a configuration file, configuration files must have a file name extension of .cfr (for example, conf.cfr).

Action

Select a .cfr file to import a storage unit configuration. If you do not have a valid configuration file (*.cfr) contact IBM technical support for assistance.

CMUG00139E The number of base volumes in each selected logical control unit must be a whole number multiple of the number of base volumes you enter. Fractional ratios are not permitted.

Explanation

The number of base volumes in one or more logical control units is not a whole number multiple of the specified number of base volumes.

Action

Enter a number that ensures a whole number ratio and then resubmit the task.

CMUG00140E No more volumes can be created from this extent pool. No more volume addresses are available in the rank group.

Explanation

No more volume addresses are available in the rank group (server 0 or 1). You must select or create a different extent pool on the alternate rank group (server).

Action

Select or create a different extent pool on the alternate rank group (server), and then resubmit the task.

CMUI000021 Call Home test was sent.

Explanation

This message informs you that a test to the connection for the Call Home feature was sent.

Action

Acknowledge the testing of the Call Home connection by clicking **OK**.

CMUI000031 All storage resources are in a normal state.

Explanation

Physical or logical storage system messages about the system state are represented by Normal, Warning, and Error. When you receive a system message of Normal, click OK to acknowledge the message.

Action

Acknowledge the system normal message.

CMUI000041 No storage units available or connection to server is down.

Explanation

Summary information is not available either because there are no storage units or the connection to the server is not available. If you know you have configured storage units, check your network connection. If you are not the system administrator, verify the availability of storage units with the system administrator. If you are the system administrator, return to the initial storage unit configuration to verify that they were set up correctly.

Action

Confirm that you have defined storage units, and check server and network availability.

CMUI000051 All physical resources are in a normal state.

Explanation

Physical or logical storage system messages about the system state Are represented by Normal, Warning, and Error. When you receive a system message of Normal, acknowledge the message by clicking OK.

Action

Acknowledge the system normal message.

CMUI000061 All logical resources are in a normal state.

Explanation

When monitoring the physical or logical storage system, messages about the system state are represented by Normal, Warning, and Error. When you receive a system message of Normal, simply acknowledge the message.

Action

Acknowledge the system normal message by clicking OK.

CMUI00007E The confirmation password does not match the original password entry.

Explanation

The two passwords that you entered are not identical. They must be identical.

Action

Reenter the password and confirmation password, and then resubmit the task.

CMUI00008E Volume type is required.

Explanation

You must select a volume type from the listed values to continue with the storage configuration.

Action

Select a type for your volume.

CMUI00009E Volume size is required

Explanation

You must select a volume size from the **Set volume size** drop-down list to continue with the storage configuration.

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Select the appropriate value from the **Set volume size** drop-down list, or define the two configuration values and recalculate.

CMUI00010E Unused storage to configure is greater than total available storage.

Explanation

If you are defining unused storage by gigabytes, you must enter a number that is equal to or less than the total unconfigured capacity to be able to continue.

Action

If you are defining the gigabytes of unused storage to configure, enter an integer that is **equal to or less than** your total unconfigured capacity.

CMUI00011E Volume quantity is greater than total available volumes. **Explanation**

You entered a number of volumes to configure than is greater than the number of volumes that are available. The number of available volumes (next to the Calculate button) is determined by the RAID selection at the top of the panel.

Enter a volume quantity less than or equal to the number of available volumes.

CMUI00012E Configured values must be recalculated.

Explanation

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Reconsider your storage and volume values and recalculate by clicking the Calculate button.

CMUI00013E Host server IP address or host name required.

Explanation

You must enter either a valid server host name or valid IP address to continue. Use the Host Name field to enter the name of the host or use the IP Address field to enter the IP address of the host.

Action

Enter a server host name or IP address.

CMUI00014E Amount of storage to configure is greater than available storage to configure.

Explanation

Either the value that you entered for the unused storage to configure or a value that the system calculated is larger than the available amount. Reevaluate all of the values (percent unused storage to configure, amount in gigabytes, volume quantity, and volume size) and then recalculate. Experiment with calculations to derive a suitable configuration. Make sure to enter only integer values into the storage configuration fields.

Action

Reevaluate and reenter the values in all storage configuration fields, then recalculate.

CMUI00015E The amount of storage to configure must contain only numbers.

Explanation

The only valid entry in the amount of storage to configure values is an integer number. Make sure that there are no characters, decimal points, or other nonnumeric values in any of the fields.

Action

Reenter the amount of storage to configure, making sure you enter numeric values.

CMUI00016E You must enter at least one of the two configurable storage values, and then calculate the other.

Explanation

You must enter at least one of the two storage configuration values, and then click the **Calculate** button. The other value will be calculated for you.

Action

Enter at least one of the two configurable storage values and then click the Calculate button.

CMUI00017E You must click Calculate to generate and verify all configurable storage values.

Explanation

You cannot proceed in the configuration process until you click the Calculate button so the system can verify the configuration.

You must define or select all but one of the storage configuration values.

After defining the required number of values, click the Calculate button to automatically fill in the remaining value. Enter only integer values into the fields. Remove all spaces, decimal points, or other nonnumeric characters.

Action

Click the **Calculate** button to verify the configuration before proceeding.

CMUI00018E Volume quantity is greater than total available volumes.

Explanation

You entered a number of volumes to configure that is greater than the number of volumes that you have available or is invalid. The available number of volumes (next to the Calculate button) is determined by the RAID selection at the top of the panel. Make sure that you enter only integer values.

Enter a volume quantity less than or equal to the number of available volumes.

CMUI00019E Starting LCU value is required.

Explanation

You must select a logical control unit (LCU) from the Select Starting LCU drop-down list. The drop-down list contains all available LCUs.

Action

Select an LCU from the Select Starting LCU drop-down list.

CMUI00020E You must enter at least two of the three configurable storage values, then calculate the third.

Explanation

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Enter at least two of the three configurable storage values and then recalculate.

CMUI00021E

Explanation

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Enter at least two of the three configurable storage values and then recalculate.

CMUI00022E You must enter at least two of the three configurable storage values, then calculate the third.

Explanation

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Enter at least two of the three configurable storage values and then recalculate.

CMUI00023E You must enter at least two of the three configurable storage values, then calculate the third.

Explanation

You must define or select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, click the Calculate button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, new calculations will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Enter at least two of the three configurable storage values and then recalculate.

CMUI00024E Amount of storage to configure has an invalid format. **Explanation**

If you are defining either a percentage or a gigabyte amount of unused storage to configure, you must enter a numeric integer value. Remove any spaces, decimal points, or other nonnumeric characters and recalculate.

Action

Reenter the amount of storage (percentage or gigabyte) to configure using only an integer value.

CMUI00025E Volume size has an invalid format.

Explanation

Volume size must be an integer value. Remove any spaces, decimal points, or other nonnumeric characters and recalculate.

Action

Reenter the volume size using only an integer value.

CMUI00026E Volume quantity has an invalid format.

Explanation

Volume quantity must be an integer value. Remove any spaces, decimal points, or other nonnumeric characters and recalculate.

Action

Reenter the volume quantity using only an integer value.

CMUI00027E Insufficient number of array sites remaining for second array site configuration.

Explanation

During the array configuration, you selected a second array configuration. But you do not have enough available second array sites. For multiple site arrays, each array site selected from the Array configuration panel represents the first of two array-sites for the array. If you select more than one array-site during the array configuration, then the system verifies enough second array sites exist to populate the first array-site selections. The system analyzes available arrays, matching types and loops. You must have enough available second site arrays. Once you acknowledge the warning message, you are returned to the array configuration panel where you must select fewer arrays.

Action

Redefine your multiple site array site configuration to not exceed available arrays.

CMUI00028E IP address of the Primary Domain name server (DNS) field is required.

Explanation

The primary domain name server (DNS) is required to define the network settings for the storage unit.

Action

Populate the IP Address field with the address of your primary domain name server.

CMUI00029E An array site can be selected only once.

Explanation

During the multiple site array configuration, you selected an array more than once. An array can only be selected once.

Action

Redefine your multiple site array site configuration selection to not include a duplicate selection of the same array.

CMUI00031E You must select a volume size and enter at least one of the two configurable storage values, and then calculate the other.

Explanation

You must select a volume size and enter one value before you click the Calculate button. The other value will be calculated for you.

Action

Select a volume size and enter an integer value into one of the two configurable storage values. Then click the Calculate button.

CMUI00032E You must select a secondary array site for each selected array site.

Explanation

A secondary array site is required.

Action

Select a secondary array site for each selected array site, and then resubmit the task.

CMUI00033E Network connection to the storage device failed.

Explanation

The storage unit's network connection of the storage unit as defined has failed. Once you acknowledge the message, you are returned to the configuration wizard. First reenter the host and IP address values and try the connection again. If needed, check the physical devices connecting the storage unit to the network. Also try other network testing commands available to you, such as ping, to check the address and status of the storage unit or your network configuration in general.

Action

Use the wizard to reenter the IP and host name, check physical network connections and try again.

CMUI00034E If selected, you must enter a volume quantity. Explanation

If you select to enter a volume quantity to determine the amount of storage you want to configure, you must enter/select an integer value.

You need to define/select at least two of the three storage configuration values: 1. amount of unused storage to configure [percent or gigabyte], 2. volume size, or 3. volume quantity.

After defining at least two of these, you must click the **Calculate** button to automatically fill-in the remaining value of three configurable values. If all three choices are filled in, then calculating will overwrite volume size, based on the amount of unused storage to configure and the volume quantity. Note that you **must** enter only integer values into the fields: remove all spaces, decimal points, or other nonnumeric characters.

Action

Enter an integer value for the volume size you want to configure.

CMUI00035E Country is required.

Explanation

The address definition must include a valid country name. Select one from the **Country** drop-down list.

Action

Select the appropriate country from the Country drop-down list.

CMUI00036E Current date is required

Explanation

This part of the configuration establishes the current time, date and time zone for the current location of the storage unit. The current date is required.

Action

Either accept the default value in the **Date** field or use the date chooser to select the current date.

CMUI00037E Current time is required.

Explanation

This part of the configuration establishes the current time, date and time zone for the current location of the storage unit. You must enter a time value.

Action

Either accept the default time, or enter a new value in the **Time** field.

CMUI00038E Select an order data file from which to import.

Explanation

To proceed with importing a order file, you must select one.

Action

Either accept the default time, or enter a new value in the **Time** field.

CMUI00039E Enter the amount of unused storage to configure or enter a volume quantity.

Explanation

Enter the Amount of unused storage to configure or enter a Volume quantity. When you then click the Calculate button, the value you did not enter will be calculated for you.

Action

Enter an Amount of unused storage to configure or enter a Volume quantity to configure. Then click **Calculate** to determine the other value.

CMUI00040E You must change every default IP address to the correct IP address. You must change: VALUE 0.

Explanation

Enter the Amount of unused storage to configure or enter a Volume quantity. When you then click the Calculate button, the value you did not enter will be calculated for you.

Action

Enter an Amount of unused storage to configure or enter a Volume quantity to configure. Then click Calculate to determine the other value.

CMUI00041E The serial number contains an incorrect format or value.

Explanation

The value in the Serial Number field is not correct. Reenter a value and use the correct format and value for Serial Number. The following is an example of a correct serial number format: AZ12341

Action

Reenter a value and correct format (ie AZ12341) and value for Serial Number.

CMUI00043E You must enter either the server host name or the server IP address, but not both.

Explanation

To avoid name and IP address conflicts, you must enter either the server host name or the server IP address, but not both. One of these values is required.

Action

Enter either the server host name or the server IP address, but not both.

CMUI00044W Click Continue to take the selected resource offline. Otherwise, click Cancel.

Explanation

You have selected a resource to take offline. Click **Continue** to take that resource offline. Click **Cancel** to cancel the operation.

Action

Click **Continue** to take that resource offline. Click **Cancel** to cancel the operation.

CMUI00045W This operation takes a long time to complete (possibly several hours). If you proceed, you must click the Refresh button on the Status tab in order to see the latest data. Click Continue to bring the selected resource online. Click Cancel to cancel the operation.

Explanation

You have selected a resource to bring online, but you are being warned that you are about to initiate a long running task. To view progress, you must manually click the Refresh button on the Status tab of the page, which shows the most current information.

Action

Click Continue to bring the resource online. Click Cancel to cancel the operation.

CMUI00046W Before you remove a disk drive module, review the possible results that a DDM service action can have on your storage unit.

Explanation

Removing and replacing a disk drive module (DDM) might cause the following results:

Removing a DDM that does not have the error indicator lit might cause a lengthy rebuild operation. The risk of losing data is increased during this rebuild operation.

You might need to rebuild your array. If more than one disk drive module is faulty or missing, you will lose the data on that array.

Action

Review the additional help explanation.

CMUI00047W Before you remove a front display panel, review the possible results that a front display panel service action can have on your storage unit.

Explanation

System alerts and LED indicators cannot display properly while the front display panel is removed or nonfunctional.

Action

Review the additional help explanation.

CMUI00048W Before you remove a rear operator panel, review the possible results that a rear operator panel service action can have on your storage unit.

Explanation

Removing and replacing a rear operator panel might cause the following results:

System alerts and LED indicators cannot display properly while the rear operator panel is removed or nonfunctional.

Power-cycling without the rear operator panel will cause an enclosure to have a default serial number that no longer applies to the enclosure.

Action

Review the additional help explanation.

CMUI00049W Before you remove a power supply, review the possible results that a power supply service action can have on your storage unit.

Explanation

Removing and replacing a power supply might cause the following results:

Once a power supply has been removed, you must replace the power supply within three minutes to prevent the enclosure from overheating. Overheating has the potential to shut down the storage unit.

Access to data is lost if both power supplies are faulty or missing. If the second power supply fails while the first power supply is not present in the enclosure, you will lose access to all data.

Review the additional help explanation.

CMUI00050W Before you remove a processor card, review the possible results that a processor card service action can have on your storage unit.

Explanation

Removing and replacing a processor card might cause the following results:

Removing a processor card that does not have a solid amber error indicator lit causes performance degradation and loss of access to data.

Note: Removing a processor card that has a solid amber error indicator does not have any effect on the operation of the storage unit.

If, while the first processor card is removed, the second processor card fails, the enclosure will lose configuration settings and access to the data. Data loss might occur if certain processes were occurring at the point of failure.

Removing a processor card will cause loss of access to host systems if multiple paths from the storage unit to the hosts are not configured.

Action

Review the additional help explanation.

CMUI00051W Before you remove a battery backup unit, review the possible results that a battery backup unit service action can have on your storage unit.

Explanation

Removing and replacing a battery backup unit might cause the following results:

While a battery backup unit is out of the enclosure slot, the enclosure is more susceptible to single point of failure errors.

Removing a battery backup unit that does not have a lit error indicator results in a processor card failover.

Removing the battery backup unit might cause loss of access to host systems that are improperly configured.

Removing a battery backup unit without immediate replacement by either another battery backup unit or a battery backup unit blank might cause the overheating of the enclosure.

The storage unit might experience performance degradation while a battery backup unit is missing from its slot.

Review the additional help explanation.

CMUI00052E The model number is required. Select one from the Model drop-down list.

Explanation

In the process of defining storage unit properties, you must select the model of the storage unit you are defining. Select the appropriate model from the **Model** drop-down list.

Action

Select a model from the drop-down list.

CMUI00053E You must enter different IP addresses for each processor controller card.

Explanation

The processor controller cards cannot share the same IP address. They must have different addresses.

Action

Enter unique IP addresses for each processor controller card, and then resubmit the task.

CMUI00054E ErrorCode The selected resource was not successfully brought online.

Explanation

The resource you selected to bring online was unsuccessfully brought online. Research the error code for more information on the exact error.

Action

Research the error code for more information on the exact error.

CMUI00055E The selected resource was not successfully brought online. A server connection error occurred.

Explanation

The resource that you selected to bring online was not brought online. Check your server connection and retry or try again when the network is not busy.

Action

Try bringing the resource online after verifying the server is connected and available and the network is not busy.

CMUI00056E A unique 4-character hexadecimal subsystem identifer is required.

Explanation

You must enter a unique 4-character hexadecimal number (0000 - FFFF).

Action

Enter a unique 4-character hexadecimal number, and then resubmit the task.

CMUI00057E You must add at least one host attachment to the storage unit.

Explanation

Before information about your newly defined host can be saved, you must add at least one host attachment to the storage unit.

Action

Add at least one host attachment, and then resubmit the task.

CMUI00058E At least one storage unit must be available before you can launch the Express Configure wizard.

Explanation

You are attempting to launch the Express Configure wizard while you are offline or while connectivity to a storage unit is not available. Connectivity is required.

Action

Ensure that a storage unit is available, and then resubmit the task.

CMUI00059W This action removes the selected storage units $VALUE \ \theta$ from the storage complex. If you have not properly prepared for this removal, you may encounter errors with affected Remote Mirror and Copy or host attachment configurations. Click Continue to remove the storage units from the storage complex. Click Cancel to cancel the operation.

Explanation

You have selected one or more storage units to be removed from a storage complex. If Remote Mirror and Copy or host attachment configurations still refer to the removed storage units, an error occurs when these configurations are referenced. To avoid error conditions, delete configuration references to these storage units before you remove them from the storage complex.

Click Continue to remove the selected storage units. Click Cancel to cancel the operation.

CMUI00060W This action removes the selected storage unit from the storage complex. Click OK to remove the storage unit from the storage complex. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to remove the storage unit from the storage complex.

Action

Click **OK** to remove the selected storage unit. Click **Cancel** to cancel the operation.

CMUI000611 File transfer successful

Explanation

The compatibility check succeeded, and the file transferred to the storage unit successfully. You can now apply the new code.

Action

None.

CMUI00062E Incompatible file

Explanation

Either the file cannot be applied using the selected application method, or the file is not compatible with the selected hardware.

Action

Select a different application method or a file that is compatible with the selected hardware, and then resubmit the task.

CMUI00063E The file transfer failed.

Explanation

The file transfer failed for one of the following reasons:

- · The file cannot be applied using the selected application method.
- · The file is not compatible with the selected hardware.
- The storage unit is not online.
- · The file tranfer process itself failed.

Ensure that the application method is correct, that the file is compatible, and that the storage unit is online, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUI00064E The number of LCUs that are to be created must be between VALUE 0 and VALUE 1.

Explanation

Based on other information that you specified, the number of LCUs that can be created must be between the values that are provided in the message.

Action

Enter a value that is between the values that are provided in the message and then resubmit the task.

CMUI00065E These storage units are already logically configured: VALUE 0. Reconfiguring a configured storage unit is not supported.

Explanation

One or more configured storage units are specified. Reconfiguring a storage unit that is already configured is not supported.

Action

Either specify storage units that are not already configured, or use the Real-time Manager to remove the logical configuration of the storage units. Then resubmit the Apply Configuration task.

CMUI00066E The specified volume size is larger than the maximum possible volume size.

Explanation

There is insufficient storage available to create volumes that are the specified size.

Action

Specify a smaller volume size, specify fewer volumes, or specify more unused storage to configure.

CMUI00067E The specified volume quantity is larger than the maximum possible volume quantity.

Explanation

There is insufficient storage available to create the specified number of volumes.

Specify a smaller volume size, specify fewer volumes, or specify more unused storage to configure.

CMUI00068E The specified number of aliases per base exceeds the maximum number that are available. The maximum number of available aliases is VALUE 0.

Explanation

More aliases are requested than are available.

Action

Specify a number of aliases that is less than or equal to the number that is provided. Then resubmit the task.

CMUI00069E You must create at least one array and one rank before you can define hosts.

Explanation

No ranks are defined. At least one rank must exist before a host can be defined.

Action

Create at least one array and one rank, and then resubmit the task.

CMUI00070E The storage unit is not available.

Explanation

The storage unit is not available because software initialization is not complete or has failed.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support.

CMUI00071E Unable to transfer the file. The storage unit is not available.

Explanation

The file cannot be transfered because the storage unit is not available. The storage unit might be powered down, offline, or initializing. A network connection might not be available.

Action

Ensure that the storage unit is available, and then resubmit the task.

CMUI00072E Select a host attachment identifier to connect to the storage unit ports.

Explanation

To complete the link between host ports and storage unit ports, you must associate a host attachment identifier with the storage unit.

Action

Select a host attachment identifier from the table.

CMUI00073E Unable to load program file IBMRemote.dll

Explanation

The file IBMRemote.dll cannot be found or permissions on that file are set such that it cannot be loaded. File \DS6000StorageManager\SM\bin\IBMRemote.dll should be in the installation directory of your storage management console. It can be found in the \SM\bin directory on the installation CD.

Action

Ensure that file IBMRemote.dll is on your system and permissions are properly set. Then resubmit the task.

CMUI00074E $VALUE_\theta$ is not a valid telephone prefix or number value.

Explanation

A value you entered in the telephone prefix field or one of the telephone number fields is invalid. A telephone prefix field must contain at least 1 digit, and a number field must contain at least 4 digits. Valid characters are () - . , + # \$ and the digits 0 - 9.

Action

Correct the value and then resubmit the task.

CMUI00075E VALUE_0: A telephone number must be selected or entered.

Explanation

You must select a telephone number from the list before you click the **Populate** button, and you must select or enter a telephone number before you click the **Test** button. No telephone number is selected or entered.

Action

Select or enter a telephone number, and then resubmit the task.

CMUI00076E You must add at least one host attachment to the storage unit.

Explanation

Before information about your newly defined host can be saved, you must add at least one host attachment to the storage unit.

Action

Select a host and attach it to a storage unit port that has a compatible topology. Then resubmit the task.

CMUI0000XW Select if you want to delete just the selected complexes or delete the complexes and the simulated storage units within the complexes. Click Continue to delete only the complexes. Click OK to delete the complexes and storage units. Click Cancel to cancel the operation.

Explanation

When deleting a storage complex you can also delete a storage unit in the complex. To delete just the selected storage complex, click the Continue button. To delete the complexes and the storage units within them, click the OK button. Click Cancel to cancel the delete operation.

Action

Click Continue to delete only the complexes. Click OK to delete the complexes and storage units. Click Cancel to cancel the operation.

Chapter 4. DS Storage Manager Copy Services messages

Copy Services related messages

These messages are issued by the DS Storage Manager.

CMUS00000W This operation deletes the selected FlashCopy relationships. Click OK to delete the FlashCopy relationships. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected FlashCopy relationships.

Action

Click **OK** to delete the FlashCopy relationships. Click **Cancel** to cancel the operation.

CMUS00001W This operation deletes Remote Mirror and Copy relationships. Click OK to delete the Remote Mirror and Copy relationships. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected Remote Mirror and Copy relationships.

Action

Click **OK** to delete the Remote Mirror and Copy relationships. Click **Cancel** to cancel the operation.

CMUS00002E You must select at least one source volume to create relationships.

Explanation

You must select a source volume to create a relationship,

Action

Select a source volume from the table.

CMUS00003E You must select the same number of target volumes as source volumes.

Explanation

To create Remote Mirror and Copy relationships, each source volume must have a target volume. Fewer target volumes are selected than source volumes.

Select the same number of target volumes as source volumes.

CMUS00004E You must select at least one source volume to create relationships.

Explanation

To create a FlashCopy relationship, you must select a source volume.

Action

Select a source volume from the table.

CMUS00005E You must select the same number of target volumes as source volumes.

Explanation

You have selected the single source with single target radio button from the first panel of the wizard. To create a FlashCopy relationship with this button, you must select the same number of target volumes as source volumes.

Action

Select the same number of target volumes as source volumes or deselect the single source with single target radio button.

CMUS00006E You must select at least one target volume.

Explanation

To create a relationship, you must select at least one target volume.

Action

Select at least one target volume.

CMUS00007E The target volume refresh fails.

Explanation

You are attempting to refresh the target volume of a FlashCopy relationship. The refresh fails.

Action

Contact IBM technical support for assistance.

CMUS00008E The FlashCopy reverse fails.

Explanation

You are attempting to reverse the source and target volumes of a FlashCopy relationship. The reverse fails.

Action

Contact IBM technical support for assistance.

CMUS00009E You must select a source logical subsystem.

Explanation

To create a path, you must select a source logical subsystem.

Action

Select a logical subsystem from the table.

CMUS00010E You must select a target logical subsystem.

Explanation

To create a path, you must select a target logical subsystem.

Action

Select a logical subsystem from the table.

CMUS00011E You must select the source I/O ports.

Explanation

To create a path, you must select source storage image I/O ports.

Action

Select one or more I/O ports.

CMUS00012E You must select the target I/O ports.

Explanation

To create a path, you must select target storage image I/O ports.

Action

Select one or more I/O ports.

CMUS00013W This operation deletes paths that might be used by Remote Mirror and Copy pairs. If you continue, data transfer bandwidth might be lowered. Click Continue to delete the paths. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected paths.

Action

Click **Continue** to delete the paths. Click **Cancel** to cancel the operation.

CMUS00014E You must select a master logical subsystem for the Global Mirror relationship.

Explanation

To create an Global Mirror relationship, a master logical subsystem must be selected.

Action

Select a master logical subsystem.

CMUS00015W This operation resumes the selected Global Mirror relationships. Click OK to resume the Global Mirror relationships. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to resume the selected Global Mirror relationships.

Action

Click OK to resume the Global Mirror relationships. Click Cancel to cancel the operation.

CMUS00016W This operation pauses the selected Global Mirror relationships. Click OK to pause the Global Mirror relationships. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to pause the selected Global Mirror relationships.

Action

Click **OK** to pause the Global Mirror relationships. Click **Cancel** to cancel the operation.

CMUS00017E Unable to start Global Mirror session.

Explanation

The graphical user interface reports an unknown error returned from the management console server. The Global Mirror session does not start.

Action

Contact IBM technical support for assistance.

CMUS00018E Invalid session number.

Explanation

A session number must be a two-character hexadecimal number in the range (00 -FF).

Action

Enter a valid two-character hexadecimal number.

CMUS00019E The management console server rejects the options you selected.

Explanation

You have selected options that should be valid, but the management console server does not accept all of the options. This might be because of one of the following reasons:

- The management console server software is not the latest version.
- The storage unit microcode is not the latest version.
- · An unknown internal error has occurred.

Action

Ensure that the latest version of all software and microcode is installed. If the problem persists, contact IBM technical support for assistance.

CMUS00020E Inhibit writes to target volume option: no valid value selected

Explanation

No valid value is selected for the **Inhibit writes to target volume** option. You must select either Enable all or Disable all.

Action

Select either Enable all or Disable all, and then resubmit the task.

CMUS00021E Enable change recording option: no valid value selected **Explanation**

No valid value is selected for the Enable change recording option. You must select either Enable all or Disable all.

Action

Select either Enable all or Disable all, and then resubmit the task.

CMUS00022E Permit FlashCopy to occur if target volume is online for host access: no valid value selected

Explanation

No valid value is selected for the Permit FlashCopy to occur if target volume is online for host access option. You must select either Enable all or Disable all.

Action

Select either Enable all or Disable all, and then resubmit the task.

CMUS00023E Fast reverse: no valid value selected

Explanation

No valid value is selected for the Fast reverse option. You must select either Enable all or Disable all.

Action

Select either Enable all or Disable all, and then resubmit the task.

CMUS00024W This operation deletes the selected Global Mirror relationships. Click OK to delete the Global Mirror relationships. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to delete the selected Global Mirror relationships.

Action

Click OK to delete the Global Mirror relationships. Click Cancel to cancel the operation.

CMUS00025E The relationship properties cannot be displayed. The relationship no longer exists.

Explanation

The specified relationship has been removed by another user, or it was removed automatically when a background copy completed.

Action

Close the properties page. The relationship will disappear from the main panel. Select a different relationship, and then resubmit the task.

CMUS00026E Relationships VALUE O specify volumes with incompatible sizes. These relationships will not be created.

Explanation

The specified relationships will not be created because the volume sizes are not compatible. For example, the target volume might be smaller than the source volume.

Action

Return to the previous panel to select compatible volumes, click the Cancel button to cancel the operation, or click the Finish button to create the remaining relationships.

CMUS00027W The paths you are attempting to remove are used by existing Remote Mirror and Copy pairs. All paths cannot be removed from target LSSs VALUE 0 while pairs exist. The Remote Mirror and Copy pairs must be removed before all paths can be removed.

Explanation

You must remove any Remote Mirror and Copy pairs that use the only remaining path before you can remove the path.

Action

Remove any Remote Mirror and Copy pairs that use the paths, and then resubmit the task.

CMUS00028E You must select at least one FlashCopy relationship. **Explanation**

You must select a relationship before you can initiate a background copy or commit or discard changes. No relationship is selected.

Action

Select a FlashCopy relationship, and then resubmit the task.

CMUS00029E No source LSS is available in the selected storage image.

Explanation

No source logical subsystem is available in the selected storage image. A path cannot be created without a source LSS.

Action

Select a storage image that has an available source logical subsystem, and then resubmit the task.

CMUS00030W The selected storage unit or image is not a master (primary) for Global Mirror sessions.

Explanation

You have selected a storage unit or storage image that is a subordinate (not a master) for Global Mirror sessions. This is only a warning. You can make this storage unit or storage image a master.

Action

You can continue, but you must make the storage unit or storage image a master.

CMUS00031E Invalid logical subsystem: No paths to the subordinates exist.

Explanation

A path must exist between the master and subordinate logical subsystems. No path exists.

Action

Select a logical subsystem with paths to the subordinates or create paths, and then resubmit the task.

CMUS00032E No target LSS is available for the selected source LSS. **Explanation**

No target logical subsystem is available for the selected source logical subsystem. A path cannot be created without a target LSS. To create a target LSS, a port must be cabled, and the port topology must be configured using the DS command-line interface.

Action

Select a different source logical subsystem, or contact IBM technical support for assistance.

CMUS00033E Select at least one volume.

Explanation

At least one volume must be selected before you can create a Global Mirror relationship. No volume has been selected.

Action

Select at least one volume, and then resubmit the task.

CMUS00034E No session numbers are available for the selected volumes.

Explanation

No available sessions exist because all 256 possible session numbers have been used already.

Action

To make session numbers available, remove one or more of the storage images in the configuration by deselecting all of the volumes in that storage image.

Chapter 5. DS Storage Manager console messages

Console messages

These messages are issued by the DS Storage Manager.

CMUL00000E GUI console operation error: page exception Explanation

The graphical user interface console reports an internal error.

Action

Ensure that the correct version of the interface software is installed. If the error persists, contact IBM technical support.

CMUL00001E GUI console operation error: renderer exception Explanation

The graphical user interface console reports an internal error.

Action

Ensure that the correct version of the interface software is installed. If the error persists, contact IBM technical support.

CMUL00002E GUI console operation error: trigger exception Explanation

The graphical user interface console reports an internal error.

Action

Ensure that the correct version of the interface software is installed. If the error persists, contact IBM technical support.

CMUL00003E GUI console operation error: request not handled Explanation

The graphical user interface console reports an internal error.

Action

Ensure that the correct version of the interface software is installed. If the error persists, contact IBM technical support.

CMUL00004E GUI console operation error: Java runtime exception **Explanation**

The graphical user interface console reports an internal error.

Action

Ensure that the correct versions of the interface software and the Java runtime environment are installed. If the error persists, contact IBM technical support.

CMUL00005E GUI console operation error: GUI not initialized **Explanation**

The graphical user interface console reports an internal error.

Action

Ensure that the correct versions of the interface software and the Java runtime environment are installed. If the error persists, contact IBM technical support.

CMUL00006E GUI console operation error: GUI panel definition **Explanation**

The graphical user interface console reports an internal error.

Action

Ensure that the correct versions of the interface software and the Java runtime environment are installed. If the error persists, contact IBM technical support.

CMUL00007E GUI console operation error: GUI panel definition **Explanation**

The graphical user interface console reports an internal error.

Action

Ensure that the correct versions of the interface software and the Java runtime environment are installed. If the error persists, contact IBM technical support.

CMUL00008E GUI console operation error: fatal error **Explanation**

The graphical user interface console reports an internal error.

Action

Ensure that the correct versions of the interface software and the Java runtime environment are installed. Resubmit the task. It might be necessary to restart the application. If the error persists, contact IBM technical support.

CMUL00009E Invalid value: $VALUE_\theta$. Only integer values are allowed.

Explanation

The specification contains a non integer value. Only integer values are allowed.

Action

Enter an integer value, and then resubmit the task.

CMUL00010E VALUE_0: All components of the IP field are required. Explanation

You must enter a complete IP address. At least one part is incomplete. Example: 127.123.456.789

Action

Enter a complete IP address, and then resubmit the task.

CMUL00011E VALUE 0: Only numbers between 0-255 are valid.

Explanation

Each component of the IP address must be a number between 0 and 255. One of the values does not fall within this range.

Action

Enter a number between 0 and 255 in each field, and then resubmit the task.

CMUL00012E $VALUE \ \theta$ is required.

Explanation

The field must contain an entry before you can continue.

Action

Enter a value in the field, and then resubmit the task.

CMUL00013W This command has irreversible consequences. Select OK to execute the command. Select Cancel to cancel the operation.

Explanation

The application is requesting confirmation that you want to run the command you issued.

Action

Select **OK** to run the command. Select **Cancel** to cancel the operation.

CMUL00014E Supply values for all the required fields.

Explanation

Not all of the required fields contain information.

Action

Enter values in all the required fields, and then resubmit the task.

CMUL00015E Value too small: $VALUE \ \theta$. The value that you enter must be an integer greater than or equal to VALUE 1.

Explanation

The value is smaller than the minimum integer value that is permitted.

Action

Enter an integer value greater than or equal to the value that is displayed in the message.

CMUL00016E Value too large: VALUE 0. The value that you enter must be an integer smaller than or equal to VALUE 1.

Explanation

The value is larger than the maximum integer value that is permitted.

Action

Enter an integer value less than or equal to the value that is displayed in the message.

CMUL00017E Entry too long: $VALUE \ \theta$. The string that you enter must be less than or equal to VALUE 1 characters in length.

Explanation

The character string is longer than the maximum length that is permitted.

Action

Enter a character string shorter than or equal to the maximum length displayed in the message.

CMUL00018E VALUE 0 must be between VALUE 1 and VALUE 2.

Explanation

The value does not fall within the allowed range.

Enter a value within the specified range.

CMUL00019E Invalid value: VALUE 0

Explanation

An integer or decimal number is required. Non numeric characters are invalid.

Action

Enter a numeric value, and then resubmit the task.

CMUL00020E Invalid activation code format: $VALUE_0$ The code must be $VALUE_1$ groups of four-digit hexadecimal numbers, separated by hyphens.

Explanation

The format of the specified activation code is invalid.

Action

Enter a correctly formatted activation code, and then resubmit the task.

CMUL00021E Invalid value: VALUE_0. A session number must be a hexadecimal number.

Explanation

A session number must be a two-character hexadecimal number in the range (00 - FF).

Action

Enter a valid two-character hexadecimal number.

CMUL00022E Invalid value: $VALUE_{-}\theta$. This number must be $VALUE_{-}1$ digits long.

Explanation

The entered hexadecimal number is not the correct length. For example, a session number must be a two-character hexadecimal number in the range (00 - FF). A valid session number is 01, not 1.

Action

Enter a valid hexadecimal number of the correct length.

CMUL00023E Value too small: $VALUE \ \theta$. The value you enter must be greater than VALUE 1.

Explanation

The entered hexadecimal number is too small.

Action

Enter a valid hexadecimal number larger than the provided value.

CMUL00024E Value too large: VALUE 0. The value you enter must be smaller than VALUE 1.

Explanation

The entered hexadecimal number is too large.

Action

Enter a valid hexadecimal number smaller than the provided value.

CMUL00025E Invalid value: $VALUE_\theta$ Only alphabetical text is permitted.

Explanation

The value contains non alphabetical characters. All characters must be alphabetical (a - z, A - Z).

Action

Enter alphabetical text only, and then resubmit the task.

CMUL00026E Unable to add storage complex. The storage complex is not online.

Explanation

The storage complex must be online before it can be added to the configuration.

Action

Place the storage complex online, and then resubmit the task.

CMUL00027E The selected storage complexes cannot be deleted. **Explanation**

The delete operation fails for an unknown reason.

Action

Resubmit the task. If the error persists, contact IBM technical support.

CMUL00028E Invalid value: $VALUE \ \theta$. This number must be a percentage, entered as an integer between VALUE 1 and VALUE 2.

Explanation

The value must be an integer percentage. The specified value is not an integer percentage.

Action

Enter an integer between the provided limits, and then resubmit the task.

CMUL00029E Unauthorized user

Explanation

Your user account has been created, but your system administrator has not granted you access privileges.

Action

Contact your system administrator.

Chapter 6. DS Storage Manager service messages

Service messages

These messages are issued by the DS Storage Manager.

CMUR00000W You are about to generate a test problem. A SNMP message will be triggered and a test problem will be sent to IBM via Call Home. Click Continue to create the test problem. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to create a test problem. This problem will send an SNMP message and a Call Home message if these services have been configured.

Action

Click Continue to create the test problem. Click Cancel to cancel the operation.

CMUR00001W The selected hardware resource will be taken offline. Click Continue to take the hardware resource offline. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to take the selected hardware resource offline.

Action

Click **Continue** to take the selected hardware resource offline. Click **Cancel** to cancel the operation.

CMUR00002W The selected hardware resource will be brought online. Click Continue to bring the hardware resource online. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to bring the selected hardware resource online.

Action

Click **Continue** to bring the selected hardware resource online. Click **Cancel** to cancel the operation.

CMUR00003W You are about to close the selected log entry. This will have no effect on the associated hardware resource. Once closed, the log entry cannot be reopened. All light path indicators associated with this log entry will be extinguished. Click Continue to close the log entry. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to manually close the log entry.

Action

Click **Continue** to close the log entry. Click **Cancel** to cancel the operation.

CMUR00004E Invalid date entry

Explanation

The date value is invalid.

- The From date and time cannot be greater than the To date and time.
- The **To** date and time cannot be less than the **From** date and time.
- · The From and To dates and times cannot be greater than the current date and time.

To avoid errors, select the date and time instead of typing in values.

Action

Provide a valid date, and then resubmit the task.

CMUR00005E Invalid time entry

Explanation

The time value is invalid.

- The **From** date and time cannot be greater than the **To** date and time.
- The **To** date and time cannot be less than the **From** date and time.
- · The From and To dates and times cannot be greater than the current date and time.

To avoid errors, select the date and time instead of typing in values.

Action

Provide a valid time, and then resubmit the task.

CMUR00006W This operation ends the long running task. Click OK to end the long running task. Click Cancel to cancel the operation.

Explanation

A long running task is taking place or is in an error state. If you click **OK** the task will be ended before it completes. Some processes will not finish, and you might have to perform other tasks to make affected storage space usable.

Action

Click **OK** to end the long running task. Click **Cancel** to cancel the operation.

CMUR00007W This operation ends the selected long running tasks. Click OK to end the long running tasks. Click Cancel to cancel the operation.

Explanation

Long running tasks are taking place or are in an error state. If you click **OK** the selected tasks will be ended before they complete. Some processes will not finish, and you might have to perform other tasks to make affected storage space usable.

Action

Click **OK** to end the long running tasks. Click **Cancel** to cancel the operation.

CMUR00008W This operation deletes the selected long running task. Click OK to delete the long running task. Click Cancel to cancel the operation.

Explanation

The selected long running task is in a finished, ended, or error state. If you click **OK** the selected task will be deleted.

Action

Click **OK** to end the long running tasks. Click **Cancel** to cancel the operation.

CMUR00009E You must select either an existing storage complex or a storage unit that has not been assigned to a storage complex.

Explanation

An unassigned storage complex is selected. Either an existing storage complex or an unassigned storage unit is required.

Action

Select either an existing storage complex or a storage unit that has not been assigned to a storage complex, and then resubmit the task.

CMUR00010E The password and confirmation password do not match. **Explanation**

You must enter the same text for password and confirmation password to proceed. The password and confirmation password are not identical.

Action

Enter the same text for both the password and confirmation, and then resubmit the

CMUR00011W User accounts will be deleted. Click OK to delete the user accounts. Click Cancel to cancel the operation.

Explanation

You have chosen to delete one or more users. This message is a warning that the user accounts will be deleted if you proceed.

Action

Click **OK** to delete the user accounts. Click **Cancel** to cancel the operation.

CMUR00012E Service data cannot be collected and sent until you provide customer contact information.

Explanation

Before service data can be collected and sent, you must first provide information in the Customer contact information notebook. No customer contact information exists.

Action

Select Customer contact... from the action drop-down, enter the necessary information, and then resubmit the task.

CMUR00013W This operation takes a long time to complete. If you proceed, you must click the Refresh button on the Status tab in order to see the latest data. Click Continue to bring the resource online. Click Cancel to cancel the operation.

Explanation

You have selected a resource to bring online, but you are being warned that you are about to initiate a long running task. To view progress, you must manually click the Refresh button on the Status tab of the page, which shows the most current information.

Action

Click **Continue** to bring the resource online. Click **Cancel** to cancel the operation.

CMUR00014E No storage unit is available. This panel cannot be used unless there is at least one storage unit online. Navigate to the Storage Unit panel to verify the status of the managed storage units before you continue.

Explanation

The panel that you are attempting to use requires that at least one storage unit is online and available to the storage management console. The storage management console cannot connect to a storage unit.

Action

Ensure that at least one storage unit is online and that it can be detected by the storage management console. Then resubmit the task.

CMUR00015E The selected resource cannot be brought online. **Explanation**

The task completed normally, but the selected resource is not online.

Action

Press the Refresh button on the Status tab to view the current state of the resource. Ensure that the resource is in a state that permits it to be brought online, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUR00016E The attempt to bring the selected resource online does not complete.

Explanation

The task cannot complete because a connection does not exist or because the task times out. One of the following conditions might exist:

- Your connection to the storage management console has been interrupted.
- The storage management console is busy.
- · The storage management console is not online.
- · The connection from the storage management console to the storage unit has been interrupted.
- The storage unit is busy.
- · The storage unit is not online.

Action

Return to the Storage Complex main page and click the Refresh button to determine if the storage management console is available and connected to the storage unit. Return to the Storage Unit main page and click the Refresh button to determine if the storage unit is online. If the storage management console is connected to an online storage unit, then the task might have timed out because the storage unit was busy when the task was submitted. If the storage complex is not connected or the storage unit is unavailable, return to the Storage Complex

main page and issue the Attempt Connection task from the Action drop-down list. Ensure that connections exist and systems are online and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUR00017E The attempt to take the selected resource offline does not complete.

Explanation

The task cannot complete because a connection does not exist or because the task times out. One of the following conditions might exist:

- Your connection to the storage management console has been interrupted.
- · The storage management console is busy.
- The storage management console is not online.
- · The connection from the storage management console to the storage unit has been interrupted.
- The storage unit is busy.
- · The storage unit is not online.

Action

Return to the Storage Complex main page and click the Refresh button to determine if the storage management console is available and connected to the storage unit. Return to the Storage Unit main page and click the Refresh button to determine if the storage unit is online. If the storage management console is connected to an online storage unit, then the task might have timed out because the storage unit was busy when the task was submitted. If the storage complex is not connected or the storage unit is unavailable, return to the Storage Complex main page and issue the Attempt Connection task from the Action drop-down list. Ensure that connections exist and systems are online and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUR00018 Data is being collected for the selected reports.

Explanation

Data collection for the selected reports is taking place.

Action

None.

CMUR00019I Data collection will no longer occur for the unselected reports.

Explanation

You chose to remove some or all reports from gathering statistical information.

Action

None.

CMUR00020W This operation takes a long time to complete. If you proceed, you must click the Refresh button on the Status tab in order to see the latest data. Click Continue to take the resource offline. Click Cancel to cancel the operation.

Explanation

You have selected a resource to take offline, but you are being warned that you are about to initiate a long running task. To view progress, you must manually click the Refresh button on the Status tab of the page, which shows the most current information.

Action

Click **Continue** to take the resource offline. Click **Cancel** to cancel the operation.

Chapter 7. DS storage management console server messages

Server messages

These messages are issued by the DS storage management console server.

CMUN00000E SOURCE Authentication failure

Explanation

The storage management console server reports an authentication failure. Authentication information that is provided by the client is invalid.

Action

Provide the correct user name and password, and then resubmit the task.

CMUN00001E SOURCE Configuration error

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00002E SOURCE Internal error

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00003E SOURCE Configuration connection error

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00004E SOURCE Configuration connection error

Explanation

The storage management console server reports an internal error.

Contact IBM technical support for assistance.

CMUN00005E SOURCE Internal error

Explanation

The storage management console server reports an internal Copy Services failure.

Action

Contact IBM technical support for assistance.

CMUN00006E SOURCE Internal error

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00007E SOURCE Mismatched Jar file

Explanation

The storage management console server or your client software reports that one of the Java resource files is not the correct version. The client and server cannot operate correctly if their respective files are not the same version.

Action

Install the appropriate versions of the management console server software and client software. If the problem persists, contact IBM technical support for assistance.

CMUN00008E SOURCE Invalid configuration parameter

Explanation

The storage management console server detects an invalid or nonexistent configuration parameter. Examples include:

- · A null value
- · An invalid extent type
- · An invalid volume type
- An invalid device type
- · An incorrect storage image
- · An out of range subsystem identifier

Action

Correctly specify all parameters, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN00009E SOURCE Invalid parameter

Explanation

The storage management console server detects an invalid or nonexistent parameter. Examples include:

- · An invalid volume
- An invalid logical subsystem
- · An invalid storage image

Action

Correctly specify all parameters, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN00010E SOURCE Invalid parameter.

Explanation

The storage management console server detects an invalid parameter. Examples include:

- · A null value
- · An invalid type

Action

Correctly specify all parameters, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN00011E SOURCE Configuration query error

Explanation

The storage management console server detects an internal error that occurs during a resource query.

Action

Contact IBM technical support for assistance.

CMUN00012E SOURCE Configuration query error

Explanation

The storage management console server detects an internal error that occurs during a resource query.

Action

CMUN00013E SOURCE Resource not found

Explanation

The storage management console server reports that it cannot find a resource. This might be because the resource is not configured on the console, or because it does not exist in the storage complex.

Action

Check the available resources and specify the correct parameters. If the problem persists, contact IBM technical support for assistance.

CMUN00014E SOURCE Server error

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00015E SOURCE Command execution timeout

Explanation

The storage management console server reports that an internal timeout has occurred before the task can complete.

Action

Check for intermediate task results. Remove intermediate results or modify the task as necessary. Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN00016E SOURCE Unauthorized access

Explanation

The storage management console server reports that you are not authorized to perform this operation.

Action

Verify your user name and privileges. Contact your system administrator.

CMUN00017E SOURCE Unauthorized

Explanation

The storage management console server reports that you are not authorized to perform this operation.

Verify your user name and privileges. If your password has expired, renew your password. Contact your system administrator.

CMUN00018E SOURCE Unable to connect to the storage management console server

Explanation

Your client software cannot connect to the storage management console server. This might be because the server is not enabled, a network problem exists, or the server is refusing connections because the maximum number of clients are connected already.

Action

Ensure that the storage management console is online. Ensure that you specify the storage management console IP addresses correctly. Ensure that other connections do not already exist.

CMUN00019E SOURCE Unknown configuration error

Explanation

The storage management console server detects an unknown internal error that occurs during resource configuration.

Action

Contact IBM technical support for assistance.

CMUN00020E SOURCE Unknown error

Explanation

The storage management console server detects an unknown internal error.

Action

Contact IBM technical support for assistance.

CMUN00021E SOURCE Unknown management console server internal error **Explanation**

The storage management console server reports an unknown internal error.

Action

CMUN00022E SOURCE The specified operation is unsupported.

Explanation

The storage management console server reports that the command that it received is unsupported. This might be because the command is invalid, because the client issuing the command is at a different software version level than the server, or because the operation is not licensed.

Action

Verify that you are issuing the correct command. Verify that you have installed the same versions of the storage management console server software and the client. Verify that you have installed licensed machine code that supports the operation.

CMUN01000E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN01001E SOURCE Operation failure: retrieving rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN01002E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02000E SOURCE Query failure: This action is supported only for CKD volumes.

Explanation

This action is supported only for count-key-data volumes.

Specify count-key-data volumes in a CKD logical subsystem, and then resubmit the task.

CMUN02001E SOURCE Error: The logical volume has been created, but it is not assigned to an address group.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02002E SOURCE Error: The logical volume has been created but it is not assigned to a logical subsystem.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02003E SOURCE Error: The logical volume has been created, but it is not assigned to a volume group.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02004E SOURCE Error: The logical volume has been created, but it is not assigned to an extent pool.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02005E SOURCE Operation failure: already assigned

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02006E SOURCE Unable to query rank

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02007E SOURCE Unable to query rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02008E SOURCE Unable to query logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02009E SOURCE Unable to create array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02010E SOURCE Unable to create array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02011E SOURCE Unable to create array: internal interface communication error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02012E SOURCE Unable to create array: The array site is not unassigned.

Explanation

An array site is not in the **unassigned** state. The task requires a unassigned array site.

Action

Check the status of the specified array site. Specify an unassigned array site, and then resubmit the task. If the problem persists, contact IBM technical support for assistance

CMUN02013E SOURCE Unable to create array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02014E SOURCE Cannot delete array. The array is flagged to be serviced.

Explanation

The array is flagged for service. An array in this state cannot be deleted until the service intent flag is removed.

Action

Wait until service is completed on the array, and then resubmit the task.

CMUN02015E SOURCE Unable to delete rank: The rank is still assigned.

Explanation

A rank cannot be deleted while it is still in the **assigned** state.

Action

Unassign the rank, and then resubmit the task.

CMUN02016E SOURCE Unable to delete logical subsystem: Logical volumes are assigned.

Explanation

Logical volumes are assigned to the logical subsystem. The logical subsystem cannot be deleted until these volumes are deleted.

Action

Delete the logical volumes, and then resubmit the task.

CMUN02017E SOURCE Unable to delete rank: Extents are in use. **Explanation**

The rank cannot be deleted because extents are still allocated from the rank.

Action

Unallocate all storage from the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02018E SOURCE Unable to create or delete array: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02019E SOURCE Cannot exceed maximum volume group count

Explanation

The maximum volume group count has been reached. A new volume group cannot be created.

Action

Remove unused volume groups, and then resubmit the task.

CMUN02020E SOURCE Unable to create logical subsystem: ID already in use.

Explanation

The logical subsystem cannot be created because the specified ID is already in use.

Action

Specify a different logical subsystem ID, and then resubmit the task.

CMUN02021E SOURCE Unable to create logical volume: the volume number already exists.

Explanation

The specified logical volume exists already.

Action

Specify a different volume number, and then resubmit the task.

CMUN02022E SOURCE Unable to create array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02023E SOURCE Unable to modify logical subsystem: cannot set session timeout

Explanation

The specified session timeout value is negative. Only positive values are valid.

Action

Specify a valid timeout value, and then resubmit the task.

CMUN02024E SOURCE Unable to modify logical subsystem: invalid critical mode enabled

Explanation

The specification contains an invalid value for the critical mode enabled parameter.

Action

Specify a valid value, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02025E SOURCE Unable to modify logical subsystem: invalid extended long busy enabled

Explanation

The specification contains an invalid value for the extended long busy enabled parameter.

Action

Specify a valid value, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02026E SOURCE Unable to modify logical subsystem: invalid extended long busy time

Explanation

The specified extended long busy time value is negative. Only positive values are valid.

Action

Specify a valid value, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02027E SOURCE Unable to modify logical subsystem: cannot set session timeout

Explanation

The specified session timeout value is negative. Only positive values are valid.

Action

Specify a valid timeout value, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02028E SOURCE Cannot use array sites. These sites are flagged to be serviced.

Explanation

The array sites are flagged for service. An array cannot be created using these sites.

Action

Wait until service is completed on the array sites, and then resubmit the task.

CMUN02029E SOURCE Internal error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02030E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02031E SOURCE Operation failure: changes are pending **Explanation**

The storage management console server reports a storage unit microcode-level error. The operation cannot be completed because previously stipulated changes have not yet been applied.

Ensure that any other tasks that you have initiated have been completed. Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02032E SOURCE Unable to create logical volume

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02033E SOURCE Error: The logical volume has been deleted, but the logical subsystem deletion fails.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02034E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02035E SOURCE Unable to delete logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02036E SOURCE Unable to delete array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02037E SOURCE Unable to delete array

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02038E SOURCE Unable to delete array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02039E SOURCE Unable to delete array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02040E SOURCE Unable to delete array. The array is still assigned.

Explanation

The array is still assigned. An assigned array cannot be deleted. Either ranks exist on the array, or a format operation is taking place.

Delete the ranks on the array or wait until the format completes, and then resubmit the task.

CMUN02041E SOURCE Unable to create logical subsystem: device type must be CKD

Explanation

The specified device type must be count-key-data.

Action

Specify a CKD device type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02042E SOURCE Operation failure: configuration already exists **Explanation**

You are attempting to create a configuration that already exists.

Action

Specify a unique configuration, and then resubmit the task.

CMUN02043E SOURCE Operation failure: internal database not open **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02044E SOURCE Operation failure: unable to allocate memory **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02045E SOURCE Operation failure: unable to allocate memory **Explanation**

Contact IBM technical support for assistance.

CMUN02046E SOURCE Operation failure: unable to allocate memory **Explanation**

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02047E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02048E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02049E SOURCE Rank reconfiguration failure: memory allocation error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02050E SOURCE Unable to repair array

Explanation

Contact IBM technical support for assistance.

CMUN02051E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02052E SOURCE Storage unit unavailable

Explanation

An invalid or unknown storage unit is specified.

Action

Specify a valid and known storage unit.

CMUN02053E SOURCE Unable to create extent pool: maximum number of extent pools reached

Explanation

The maximum allowed number of extent pools in the storage image has been reached already.

Action

Delete unused extent pools, and then resubmit the task.

CMUN02054E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02055E SOURCE Operation failure: unable to allocate memory **Explanation**

The storage management console server reports a storage unit microcode-level error. The storage unit is unable to allocate memory. This might be a temporary problem that occurs during heavy usage.

Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02056E SOURCE Operation failure: unable to allocate memory **Explanation**

The storage management console server reports a storage unit microcode-level error. The storage unit is unable to allocate memory. This might be a temporary problem that occurs during heavy usage.

Action

Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02057E SOURCE Unable to assign rank to extent pool: The rank is already assigned.

Explanation

The rank is already assigned, so it cannot be assigned to another extent pool.

Action

Unassign the rank or specify an unassigned rank, and then resubmit the task.

CMUN02058E SOURCE Unable to assign rank to extent pool **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02059E SOURCE Unable to assign rank to extent pool **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02060E SOURCE Unable to create extent pool

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02061E SOURCE Create logical subsystem failure

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02062E SOURCE Unable to modify SCSI host port: invalid host type

Explanation

The host type is longer than the 16-character maximum length.

Action

Specify a valid host type, and then resubmit the task.

CMUN02063E SOURCE Unable to create SCSI host port: invalid WWPN Explanation

The worldwide port name is invalid. A WWPN must be a 16-character hexadecimal string.

Action

Specify a valid worldwide port name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02064E SOURCE Unable to create SCSI host port: non-unique WWPN Explanation

The worldwide port name is not unique.

Action

Specify a unique worldwide port name, and then resubmit the task.

CMUN02065E SOURCE Operation failure: device adapter cannot query data

Explanation

The storage management console server reports a storage unit microcode-level error. This might be a temporary problem due to heavy traffic, or it might indicate a hardware failure.

Action

Check for device adapter and storage device hardware errors, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN02066E SOURCE Operation failure: database creation error Explanation

The storage management console server reports a storage unit microcode-level error. An internal database cannot be created.

Action

Contact IBM technical support for assistance.

CMUN02067E SOURCE Unable to create SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02068E SOURCE Unable to create SCSI host port: invalid volume group identifier

Explanation

The specification contains an invalid volume group identifier.

Action

Specify a valid volume group identifier, and then resubmit the task.

CMUN02069E SOURCE Unable to create SCSI host port: invalid profile Explanation

The port profile length cannot be more than 16 characters.

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02070E SOURCE Unable to create SCSI host port: invalid WWPN **Explanation**

The worldwide port name is invalid. A WWPN must be a 16-character hexadecimal string.

Action

Provide a valid worldwide port name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02071E SOURCE Unable to create SCSI host port: invalid WWPN **Explanation**

The worldwide port name is invalid. A WWPN must be a 16-character hexadecimal string.

Action

Provide a valid worldwide port name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02072E SOURCE Unable to create SCSI host port: invalid override default priority

Explanation

The attribute value that indicates whether default priority for I/O operations can be overridden is invalid.

Action

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02073E SOURCE Unable to create volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02074E SOURCE Unable to create volume group: invalid user name **Explanation**

The specified user name is longer than the 16-character maximum length.

Action

Specify a valid user name, and then resubmit the task.

CMUN02075E SOURCE Unable to delete extent pool

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02076E SOURCE Rank creation cannot complete.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02077E SOURCE Operation failure: addition

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02078E SOURCE Failed to initialize LPAR

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02079E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02080E SOURCE Unable to create array: The maximum number of arrays have been created.

Explanation

The array cannot be created because the maximum allowed number of arrays have been created already.

Action

Add additional storage or delete one or more existing arrays, and then resubmit the task.

CMUN02081E SOURCE Unable to create rank: The maximum number of ranks have been created.

Explanation

The rank cannot be created because the maximum allowed number of ranks have already been created.

Action

Add additional storage or delete one or more existing ranks, and then resubmit the task.

CMUN02082E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02083E SOURCE Extent pool operation failure

Explanation

Contact IBM technical support for assistance.

CMUN02084E SOURCE Unable to delete extent pool

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02085E SOURCE Unable to delete extent pool

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02086E SOURCE Unable to delete logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02087E SOURCE Unable to query rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02088E SOURCE Unable to query rank

Explanation

Contact IBM technical support for assistance.

CMUN02089E SOURCE Failed to initialize LPAR

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02090E SOURCE LPAR startup error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02091E SOURCE Failed to initialize LPAR

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02092E SOURCE Rank creation cannot complete

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02093E SOURCE Unable to create logical volume

Explanation

Contact IBM technical support for assistance.

CMUN02094E SOURCE Failed to initialize LPAR

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02095E SOURCE Unable to create logical volume

Explanation

The specification contains an invalid combination of **requested capacity**, **volume type**, and **data type**.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02096E SOURCE Unable to create logical volume

Explanation

The specification contains an invalid combination of **requested capacity**, **volume type**, and **data type**.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02097E SOURCE Unable to query rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02098E SOURCE Unable to create logical volume

Explanation

Contact IBM technical support for assistance.

CMUN02099E SOURCE Unable to create volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02100E SOURCE Volume group operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02101E SOURCE Unable to query volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02102E SOURCE Unable to delete logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02103E SOURCE Unable to assign volumes to volume group

Explanation

Contact IBM technical support for assistance.

CMUN02104E SOURCE Unable to assign volume to volume group

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02105E SOURCE Unable to retrieve volumes assigned to volume group

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02106E SOURCE Unable to retrieve volumes assigned to volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02107E SOURCE Unable to delete volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02108E SOURCE Unable to modify volume group

Explanation

This volume group is internally reserved and cannot be modified.

Specify a different volume group, and then resubmit the task.

CMUN02109E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02110E SOURCE Unable to modify SCSI host port: invalid address discovery method

Explanation

You must specify how the port discovers the LUNs that are accessible by the host port. The host port can use one of two methods:

- · The Report LUNs command
- · LUN polling

Action

Specify a valid address discovery method, and then resubmit the task.

CMUN02111E SOURCE Unable to modify SCSI host port: invalid volume group type

Explanation

The volume group being assigned to the SCSI host port has an invalid type.

Action

Specify a volume group with a valid type, and then resubmit the task.

CMUN02112E SOURCE Unable to modify SCSI host port: invalid volume group ID

Explanation

The specification contains an invalid volume group identifier.

Action

Specify a valid volume group identifier, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02113E SOURCE Unable to modify SCSI host port: logical block size and volume group type mismatch

Explanation

A 520-byte block size requires a SCSI520-All or SCSI520-Mask volume group type.

Action

Specify a valid volume group type, and then resubmit the task.

CMUN02114E SOURCE Unable to modify SCSI host port: invalid logical block size

Explanation

The logical block size of the devices that the port accesses must be either 512-bytes or 520-bytes.

Action

Specify a valid logical block size, and then resubmit the task.

CMUN02115E SOURCE Unable to modify SCSI host port: logical block size and volume group type mismatch

Explanation

A 512-byte block size requires a SCSI-All, SCSI-Mask, or SCSI-Map 256 volume group type.

Action

Specify compatible logical block size and volume group type, and then resubmit the task.

CMUN02116E SOURCE Unable to modify SCSI host port: invalid port mask

Explanation

The storage management console server reports a storage unit microcode-level error. A mask that controls N-port logins contains an invalid value.

Action

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02117E SOURCE Unable to modify SCSI host port: invalid override default priority value

Explanation

The attribute that indicates whether the default priority for I/O operations is to be overridden is invalid. The value must be either true or false.

Action

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02118E SOURCE Unable to modify SCSI host port: invalid port profile

Explanation

The port profile length cannot be more than 16 characters.

Action

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02119E SOURCE Unable to modify SCSI host port: invalid port topology

Explanation

The attaching port topology must be one of the following:

- Unknown
- Fibre Channel Point to Point or Switched (FCP)
- Fibre Channel Arbitrated Loop (FC-AL)

Action

Specify a valid attaching port topology, and then resubmit the task.

CMUN02120E SOURCE Unable to modify SCSI host port: address discovery method and volume group type mismatch

Explanation

The Report LUNs address discovery method requires a SCSI-Mask, SCSI-Map 256, or SCSI520-Mask volume group type.

Action

Specify compatible address discovery method and volume group types, and then resubmit the task.

CMUN02121E SOURCE Unable to modify SCSI host port: address discovery method and volume group type mismatch

Explanation

The **LUN Polling** address discovery method requires a SCSI-All, SCSI-Map 256, SCSI520-All, or Copy Services volume group type.

Action

Specify compatible address discovery method and volume group types, and then resubmit the task.

CMUN02122E SOURCE Unable to modify SCSI host port: invalid value **Explanation**

The storage management console server reports a storage unit microcode-level error. A mask that controls N-port logins contains an invalid value.

Action

Correct the port specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02123E SOURCE Unable to modify SCSI host port: nonexistent volume group

Explanation

The specified volume group does not exist.

Action

Specify a valid volume group, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02124E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02125E SOURCE Unable to start or end service

Explanation

Contact IBM technical support for assistance.

CMUN02126E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02127E SOURCE Unable to modify volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02128E SOURCE Unable to open a session to query a logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02129E SOURCE Unable to open a session

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02130E SOURCE Unable to open a session

Explanation

Contact IBM technical support for assistance.

CMUN02131E SOURCE Internal database overwrite failure: The database exists and overwrite is off.

Explanation

The storage management console server reports a storage unit microcode-level error. Database overwrite permission is turned off for an existing database. The database cannot be overwritten.

Action

Contact IBM technical support for assistance.

CMUN02132E SOURCE Rank creation cannot complete.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02133E SOURCE Extent pool operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Check for device adapter and storage device hardware errors, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN02134E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02135E SOURCE Volume group query failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02136E SOURCE Unable to query volume groups: invalid volume number

Explanation

The specification contains an invalid volume identifier. A logical volume identifier must be a 4-character hexadecimal string.

Action

Specify a valid volume, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02137E SOURCE Unable to assign rank to extent pool: type mismatch

Explanation

The specified rank and extent pool must be the same type.

Action

Specify the same type for rank and extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02138E SOURCE Unable to create rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02139E SOURCE Unable to create rank

Explanation

Contact IBM technical support for assistance.

CMUN02140E SOURCE Unable to create rank

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02141E SOURCE Rank creation failure: check device adapter **Explanation**

The storage management console server reports a storage unit microcode-level error. Creation of the rank did not complete. A device adapter might have failed.

Action

Check for device adapter hardware errors, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN02142E SOURCE Rank creation did not complete.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02143E SOURCE Unable to create rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02144E SOURCE Unable to create rank

Explanation

Contact IBM technical support for assistance.

CMUN02145E SOURCE Unable to create rank

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02146E SOURCE Rank creation failure: server unavailable Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02147E SOURCE Unable to repair array

Explanation

The task must be invoked against a rank in the **FAILED** state. The rank is not in the **FAILED** state.

Action

Contact IBM technical support for assistance.

CMUN02148E SOURCE Unable to repair array

Explanation

The task must be invoked against a rank in the **inaccessible** state. The rank is not in the **inaccessible** state.

Action

Contact IBM technical support for assistance.

CMUN02149E SOURCE Unable to repair array

Explanation

The task must be invoked against a rank in the **repairing_formatted** state. The rank is not in the **repairing_formatted** state.

Contact IBM technical support for assistance.

CMUN02150E SOURCE Unable to delete rank

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02151E SOURCE Unable to delete rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02152E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02153E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02154E SOURCE Rank operation failure

Explanation

Contact IBM technical support for assistance.

CMUN02155E SOURCE Rank operation failure: device adapter error Explanation

The storage management console server reports a storage unit microcode-level error

Action

Check for device adapter and storage device hardware errors, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN02156E SOURCE Unable to reconfigure rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02157E SOURCE Unable to reconfigure rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02158E SOURCE Unable to reconfigure rank: server offline Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02159E SOURCE Rank reconfiguration failure: The rank is flagged to be serviced.

Explanation

The specified rank is flagged for service. A rank cannot be reconfigured while it is flagged for service.

Action

Wait until the service is completed, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02160E SOURCE Unable to reconfigure rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02161E SOURCE Unable to release rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02162E SOURCE Unable to reserve rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02163E SOURCE Rank operation failure

Explanation

Contact IBM technical support for assistance.

CMUN02164E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02165E SOURCE Unable to unassign rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02166E SOURCE Unable to reconfigure rank: The rank remains in the failed state.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02167E SOURCE Unable to release rank

Explanation

The rank is not **reserved**. Only reserved ranks can be released.

Action

Reserve the rank or choose a reserved rank, and then resubmit the task.

CMUN02168E SOURCE Unable to assign volumes to volume group **Explanation**

At least one of the volumes has an invalid data type for the specified volume group.

A SCSI-Mask volume group requires a 512-byte block data type.

· A SCSI520-Mask volume group requires a 520-byte block protected data type or a 520-byte block unprotected data type.

Action

Specify volumes with compatible data types, and then resubmit the task.

CMUN02169E SOURCE Unable to assign volume to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02170E SOURCE Unable to assign volume to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02171E SOURCE Unable to assign volumes to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02172E SOURCE Unable to assign volume to volume group **Explanation**

No rank has been created. At least one rank must exist before a volume can be created and assigned.

Action

Create at least one rank and volume, and then resubmit the task.

CMUN02173E SOURCE Unable to assign volume to volume group: data type mismatch

Explanation

The data type of the volume does not match the data type of the volume group.

- A SCSI-Mask volume group requires a 512-byte block data type.
- · A SCSI520-Mask volume group requires a 520-byte block protected data type or a 520-byte block unprotected data type.

Action

Specify compatible data types, and then resubmit the task.

CMUN02174E SOURCE Unable to assign volume to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02175E SOURCE Unable to assign volume to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02176E SOURCE Unable to assign volume to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02177E SOURCE Unable to assign volume to volume group **Explanation**

No rank has been created. At least one rank must exist before a volume can be created and assigned.

Create at least one rank and volume, and then resubmit the task.

CMUN02178E SOURCE Unable to reset Copy Services settings on logical subsystems

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02179E SOURCE Unable to reset Copy Services settings on logical subsystem

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02180E SOURCE Unable to reserve rank

Explanation

The rank is not assigned. Only assigned ranks can be reserved.

Action

Assign the rank or choose an assigned rank, and then resubmit the task.

CMUN02181E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02182E SOURCE Unable to modify SCSI host port

Explanation

Contact IBM technical support for assistance.

CMUN02183E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02184E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02185E SOURCE Unable to retrieve volumes assigned to the volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02186E SOURCE Unable to retrieve volumes assigned to volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02187E SOURCE Unable to retrieve volumes assigned to the volume group: no ranks exist

Explanation

No ranks exist on the storage image. Volume information is not available.

Action

Create at least one rank and volume on the storage image, and then resubmit the task.

CMUN02188E SOURCE Unable to retrieve volumes assigned to volume group.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02189E SOURCE Unable to retrieve volumes assigned to volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02190E SOURCE Unable to assign volume to volume group **Explanation**

No rank has been created. At least one rank must exist before a volume can be created and assigned.

Action

Create at least one rank and volume, and then resubmit the task.

CMUN02191E SOURCE Unable to modify volume group

Explanation

Contact IBM technical support for assistance.

CMUN02192E SOURCE Unable to query rank

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02193E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02194E SOURCE Unable to create SCSI host port: invalid port profile

Explanation

The port profile is not a supported port profile.

Action

Specify a valid and supported port profile, and then resubmit the task.

CMUN02195E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02196E SOURCE SCSI host port operation failure

Explanation

Contact IBM technical support for assistance.

CMUN02197E SOURCE Unable to modify SCSI host port: invalid port profile

Explanation

The port profile is not a supported port profile.

Action

Specify a valid and supported port profile, and then resubmit the task.

CMUN02198E SOURCE Unable to create, modify, or delete SCSI host port: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02199E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02200E SOURCE Unable to query volume groups

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02201E SOURCE Unable to assign volumes to volume group **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02202E SOURCE Unable to assign volumes to volume group **Explanation**

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02203E SOURCE Unable to create, modify, or delete volume group: version update

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02204E SOURCE Volume group query failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02205E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02206E SOURCE Unable to unassign rank

Explanation

Only ranks in the reserved state can be unassigned. The rank is not in the reserved state.

Action

Place the rank in the **reserved** state, or choose a **reserved** rank, and then resubmit the task.

CMUN02207E SOURCE Unable to unassign rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02208E SOURCE Unable to unassign rank: Extents are allocated to logical volumes.

Explanation

Extents from the specified rank are allocated to logical volumes. The rank cannot be deleted while storage is allocated from it. You must remove the volumes to deallocate the extents.

Action

Deallocate all extents from the rank by removing any volumes that use the extents, and then resubmit the task.

CMUN02209E SOURCE Unable to delete SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02210E SOURCE Unable to delete SCSI host port

Explanation

Contact IBM technical support for assistance.

CMUN02211E SOURCE Unable to delete volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02212E SOURCE Unable to delete volume group: The volume group is still assigned to a SCSI host port.

Explanation

The volume group cannot be deleted because it is assigned to one or more host ports.

Action

Unassign the volume group from the host ports, and then resubmit the task.

CMUN02213E SOURCE Unable to delete volume group

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02214E SOURCE Unable to delete volume group

Explanation

The specified volume group is internally reserved and cannot be deleted.

Action

Select another volume group, and resubmit the task.

CMUN02215E SOURCE Unable to retrieve volume group information Explanation

Contact IBM technical support for assistance.

CMUN02216E SOURCE Unable to modify volume group

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02217E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02218E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02219E SOURCE Unable to create or delete volume group: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02220E SOURCE Unable to retrieve or assign volumes assigned to volume group: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02221E SOURCE Unable to retrieve or assign volumes assigned to volume group: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02222E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02223E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02224E SOURCE Unable to create volume group: invalid volume group type

Explanation

The specified volume group type is invalid. The following volume group types are valid:

- SCSI-Mask
- SCSI-Map 256
- SCSI520-Mask
- Copy Services

Action

Specify a valid volume group type, and then resubmit the task.

CMUN02225E SOURCE Unable to assign rank to extent pool

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02226E SOURCE Unable to end service: Management console is not authorized.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02227E SOURCE Unable to create logical volume: The data type of the logical volume is incompatible with the extent type of its extent pool.

Explanation

The data type of a logical volume must be compatible with the extent type of its extent pool.

Action

Specify compatible types. Either specify a different data type for the logical volume, or specify a different extent pool. If the problem persists, contact IBM technical support for assistance.

CMUN02228E SOURCE Rank creation cannot complete.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Check for device adapter and storage device hardware errors, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN02229E SOURCE Unable to create logical volume: Data type is incompatible with data type of other volumes in address group.

Explanation

The data type of the logical volume must be the same as the data type of other logical volumes in the address group.

Action

Specify the same data type or a different address group, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02230E SOURCE Rank definition failure: extent type mismatch **Explanation**

The extent types that are specified for the rank and its extent pool do not match.

Action

Specify the same extent type for the rank and its extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02231E SOURCE Unable to create logical volume: rank group and logical subsystem group mismatch

Explanation

A logical volume is created from an extent pool in a rank group. The logical volume is also a member of a logical subsystem group. The rank group identifier and the logical subsystem group identifier must be identical.

Action

Specify the same identifier for the rank group and the logical subsystem group. One way to do this is by specifying a different extent pool. If the problem persists, contact IBM technical support for assistance.

CMUN02232E SOURCE Unable to create logical subsystem: device type mismatch

Explanation

The device type of the new logical subsystem is inconsistent with the device type of existing logical subsystems in the address group.

Action

Specify consistent device types, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02233E SOURCE Logical volume operation failure: inconsistent starting and ending logical volume numbers

Explanation

The starting logical volume and the ending logical volume must belong to the same logical subsystem.

Action

Specify the same logical subsystem for the starting and ending logical volumes, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02234E SOURCE Unable to create logical subsystem: device type format error

Explanation

The device type length must be less than 4 characters.

Action

Specify a valid device type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02235E SOURCE Unable to create or modify logical subsystem: invalid format

Explanation

A logical subsystem identifier must be 2 hexadecimal characters.

Action

Specify a 2-hexadecimal character logical subsystem ID, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02236E SOURCE Unable to create or modify logical subsystem: invalid format

Explanation

A logical subsystem identifier must be 2 hexadecimal characters.

Action

Specify a 2 hexadecimal character logical subsystem ID, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02237E SOURCE Unable to create array: The RAID type is neither RAID5 nor RAID10.

Explanation

The RAID type must be either RAID5 or RAID10.

Action

Specify a RAID5 or RAID10 type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02238E SOURCE Unable to create or modify logical volume: invalid number

Explanation

A logical volume number must be a 4-digit hexadecimal number.

Action

Specify a 4-digit hexadecimal logical volume number, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02239E SOURCE Unable to create or modify logical volume: invalid volume number

Explanation

A logical volume number must be a 4-digit hexadecimal number.

Action

Specify a 4-digit hexadecimal logical volume number, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02240E SOURCE Unable to create logical volume: invalid volume type

Explanation

The specification contains an invalid volume type.

Action

Specify a valid logical volume type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02241E SOURCE Service intent is not currently set. Reset ignored.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02242E SOURCE Unable to create rank: Array is not unassigned. **Explanation**

The specification contains a reference to an assigned array. The rank must be created on an unassigned array.

Action

Specify an unassigned array, and then resubmit the task.

CMUN02243E SOURCE Unable to create or modify logical subsystem **Explanation**

The specification contains an invalid CKD base control unit value.

Action

Specify a valid value, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02244E SOURCE Logical volume operation failure: invalid data type

Explanation

Contact IBM technical support for assistance.

CMUN02245E SOURCE Unable to create extent pool: invalid extent limit enabled value

Explanation

The specification contains an invalid parameter value. The value for extent limit enabled is neither true nor false.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02246E SOURCE Unable to create extent pool: invalid extent limit

Explanation

The specification contains an invalid parameter value. The value for extent limit is not between 0 and 100.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02247E SOURCE Unable to create extent pool: invalid extent threshold

Explanation

The specification contains an invalid parameter value. The value for extent threshold is not between 0 and 100.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02248E SOURCE Unable to modify extent pool: invalid extent threshold

Explanation

The specification contains an invalid **extent threshold** value.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02249E SOURCE Unable to create extent pool: invalid extent type

Explanation

The specification contains an invalid extent type.

Action

Specify a valid extent type, and then resubmit the task.

CMUN02250E SOURCE Unable to create or modify extent pool: invalid user name

Explanation

The specification contains a user name that exceeds the 16-character limit.

Action

Specify a valid user name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02251E SOURCE Unable to modify extent pool: invalid extent limit enabled value

Explanation

The specification contains an invalid extent limit enabled value.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02252E SOURCE Unable to modify extent pool: invalid extent limit

Explanation

The specification contains an invalid **extent limit** value.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02253E SOURCE Unable to start or end service: invalid storage management console ID

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02254E SOURCE Unable to create or modify logical volume: invalid user name

Explanation

The specified user name is longer than the 16-character maximum length.

Action

Specify a valid user name, and then resubmit the task.

CMUN02255E SOURCE Unable to create or modify logical subsystem: invalid logical subsystem identifier format

Explanation

The logical subsystem identifier must be a 4-character hexadecimal number.

Action

Specify a valid subsystem identifier, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02256E SOURCE Unable to create or modify logical subsystem: invalid logical subsystem identifier length

Explanation

The subsystem identifier must be 4 characters long.

Action

Specify a valid subsystem identifier, and then resubmit the task.

CMUN02257E SOURCE Logical subsystem query failure: invalid LSS ID Explanation

A logical subsystem ID is a hexadecimal value of the range (0 - FF).

Specify a valid identifier for the logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02258E SOURCE Unable to delete extent pool: ranks are assigned **Explanation**

Ranks are assigned to the extent pool. The extent pool cannot be deleted while ranks are assigned to it.

Action

Unassign the ranks, and then resubmit the task.

CMUN02259E SOURCE Unable to start or end service: invalid parameters

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02260E SOURCE Operation failure: invalid RAID type or number of spares

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02261E SOURCE Unable to create extent pool: invalid rank group **Explanation**

The specification contains an invalid rank group.

Action

Specify a valid rank group, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02262E SOURCE Unable to create volumes: invalid volume type **Explanation**

The specification contains an invalid volume type. The following volume types are supported, but you might be limited to a subset of these by other factors in your storage definition:

CKD base:

- · 3380 cylinder
- · 3390 cylinder

CKD single-CU alias

Fixed block base:

- 512-byte block
- · 520-byte block unprotected
- · 520-byte block protected

Action

Specify a valid volume type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02263E SOURCE Unable to create or delete extent pool: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02264E SOURCE Unable to end service: lock still held by other management console

Explanation

Service has been initiated by two storage management consoles. The other management console holds a lock.

Action

Release the service intent lock from the other management console, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02265E SOURCE Logical volume operation failure: not supported **Explanation**

The requested operation is not supported. This might be because the specified logical volume is an alias.

Action

Specify a base logical volume, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02266E SOURCE Unable to modify logical subsystem: not a CKD volume

Explanation

The specification attributes a count-key-data value to a fixed block logical subsystem.

Action

Change the specification or select a count-key-data logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02267E SOURCE Unable to create or modify logical subsystem: identifier already in use

Explanation

The specification contains a logical subsystem identifier that is already in use.

Action

Specify a unique identifier for the the logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02268E SOURCE Unable to create or modify logical subsystem: identifier must be nonzero

Explanation

The specification does not contain a logical subsystem identifier, or the identifier is zero. A nonzero identifier is required.

Action

Specify a nonzero identifier for the logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02269E SOURCE Unable to modify logical subsystem: identifier only for CKD

Explanation

The specified subsystem identifier is reserved for count-key-data type logical subsystems. The specified logical subsystem is fixed block and cannot be modified in this manner.

Action

Specify a a CKD logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02270E SOURCE Unable to create a new SCSI host port: maximum count reached

Explanation

The maximum number of SCSI host ports have been created. No more SCSI host ports can be created.

Action

Use an existing SCSI host port or delete an existing SCSI host port, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02271E SOURCE Unable to create SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02272E SOURCE SCSI host port operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02273E SOURCE Unable to modify SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02274E SOURCE Unable to delete SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02275E SOURCE Unable to create logical volume: volume type and data type mismatch

Explanation

The specification contains inconsistent volume type and data type information.

Action

Specify consistent volume and data types, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02276E SOURCE Unable to delete rank

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02277E SOURCE Alias volume creation failure: no logical subsystem exists

Explanation

A logical subsystem must exist before multiple alias volumes can be created.

Create a logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02278E SOURCE Operation failure: name is not unique Explanation

The specification contains a name that is already being used.

Action

Specify a unique name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02279E SOURCE Operation failure: unknown storage unit Explanation

The specification contains a reference to an unknown storage unit.

Action

Specify a valid storage unit, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02280E SOURCE Unable to assign rank to extent pool: The extent pool does not exist.

Explanation

The specification contains a reference to an invalid extent pool.

Action

Specify a valid extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02281E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02282E SOURCE Unable to create CKD logical volume: CKD volumes require a CKD logical subsystem.

Explanation

You must create a count-key-data type logical subsystem before you can create count-key-data type volumes.

Action

Create a CKD logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02283E SOURCE Unable to create CKD alias logical volume: no base volume exists.

Explanation

The specification contains a reference to a nonexistent base volume. A count-key-data alias can be created for existing base volumes only.

Action

Specify a valid base volume that is contained within the same logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02284E SOURCE Logical subsystem operation failure: logical subsystem does not exist.

Explanation

The specification contains a reference to a nonexistent logical subsystem.

Action

Specify an existing logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02285E SOURCE Unable to create rank: array does not exist.

Explanation

The specification contains a reference to a nonexistent array.

Action

Specify an existing array, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02286E SOURCE Rank operation failure: extent pool does not exist.

Explanation

The specification contains a reference to a nonexistent extent pool.

Action

Specify an existing extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02287E SOURCE Rank operation failure: rank does not exist. Explanation

The specification contains a reference to a nonexistent rank.

Action

Specify an existing rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02288E SOURCE Rank operation failure: rank does not exist. Explanation

The specification contains a reference to a nonexistent rank.

Action

Specify an existing rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02289E SOURCE Rank operation failure: rank does not exist. Explanation

The specification contains a reference to a nonexistent rank.

Action

Specify an existing rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02290E SOURCE Unable to create logical volume: extent pool does not exist.

Explanation

The specification contains a reference to a nonexistent extent pool.

Specify an existing extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02291E SOURCE Unable to start service: device adapter pair is configuring.

Explanation

Service intent cannot be set while a device on the adapter pair is still configuring.

Action

Wait until the device configuration completes, and then resubmit the task.

CMUN02292E SOURCE XML parse error

Explanation

The storage management console server reports a storage unit microcode-level error. An xml file cannot be parsed.

Action

Contact IBM technical support for assistance.

CMUN02293E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02294E SOURCE Unable to delete logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02295E SOURCE Unable to delete logical volume.

Explanation

Contact IBM technical support for assistance.

CMUN02296E SOURCE Unable to delete logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02297E SOURCE Unable to create logical volume: FB volumes must have a data type.

Explanation

The specification for a fixed block logical volume does not contain a data type. Fixed block logical volumes must have one of the following data types:

- · 512-byte block
- · 520-byte block unprotected
- 520-byte block protected

Action

Specify a data type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02298E SOURCE Unable to create logical volume: FB volumes must have an extent pool.

Explanation

The logical volume specification does not contain an extent pool. Fixed block logical volumes must have an extent pool from which their extents are allocated.

Action

Specify an extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02299E SOURCE Unable to create logical volume: FB volumes must have a requested capacity.

Explanation

The logical volume specification does not contain a requested capacity.

Specify a requested capacity, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02300E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02301E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02302E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02303E SOURCE Rank operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02304E SOURCE Unable to create array: memory allocation error **Explanation**

Contact IBM technical support for assistance.

CMUN02305E SOURCE Operation failure: SCSI host port already exists.

Explanation

The specified SCSI host port already exists.

Action

Specify a new SCSI host port, and then resubmit the task.

CMUN02306E SOURCE Unable to create, modify, or delete logical volume: service intent is set on extent pool.

Explanation

The extent pool is flagged to be serviced. No operations can be performed on extent pool objects while it is flagged for service.

Action

Wait until service is completed on the extent pool, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02307E SOURCE Unable to create logical volume

Explanation

The specification contains an invalid combination of requested capacity, volume type, and data type.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02308E SOURCE Query failure: logical subsystem does not exist. **Explanation**

The specification contains a reference to a nonexistent logical subsystem.

Action

Specify an existing logical subsystem, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02309E SOURCE Unable to modify logical volume: volume type and data type mismatch

Explanation

A fixed block type logical volume must have a fixed block data type. A count-key-data type logical volume must have a count-key-data data type.

Action

Specify a valid data type for the logical volume, and then resubmit the task.

CMUN02310E SOURCE Unable to add logical volume to volume group Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02311E SOURCE Unable to create logical subsystem Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02312E SOURCE Unable to delete logical subsystem Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02313E SOURCE Unable to delete logical subsystem Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02314E SOURCE Unable to modify logical volume

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02315E SOURCE Unable to modify logical subsystem

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02316E SOURCE Logical subsystem query failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02317E SOURCE Unable to delete CKD base logical volume: alias assigned

Explanation

At least one alias is assigned to the count-key-data base logical volume. Aliases must be deleted before the count-key-data base logical volume can be deleted.

Action

Remove the aliases, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02318E SOURCE Unable to create rank: Too many arrays are specified.

Explanation

The storage management console server reports a storage unit microcode-level error. Only one array can be specified.

Specify one array, and then resubmit the task.

CMUN02319E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02320E SOURCE Unable to create rank: Service intent is set on the array.

Explanation

An array required for the operation has been flagged to be serviced. The array cannot be used while the service flag is set.

Action

Wait until service is completed on the array, and then resubmit the task.

CMUN02321E SOURCE Unable to repair array: Service intent is set. **Explanation**

The array has been flagged to be serviced. The array cannot be used while the service flag is set.

Action

Wait until service is completed on the array, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02322E SOURCE Unable to repair array: Service intent is set. **Explanation**

The array has been flagged to be serviced. The array cannot be used while the service flag is set.

Action

Wait until service is completed on the array, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02323E SOURCE Unable to assign rank to extent pool: Service intent is set on the storage complex.

Explanation

The storage complex has been flagged to be serviced. No activities can be performed on objects in the storage complex while the service flag is set.

Action

Wait until service is completed on the storage complex, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02324E SOURCE Unable to assign rank to extent pool: Service intent is set.

Explanation

The rank has been flagged to be serviced. No activities can be performed on the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02325E SOURCE Unable to create rank: not in dual server mode **Explanation**

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02326E SOURCE Unable to release rank: Service intent is set. **Explanation**

The rank has been flagged to be serviced. No activities can be performed on the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02327E SOURCE Unable to reserve rank: Service intent is set. **Explanation**

The rank has been flagged to be serviced. No activities can be performed on the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02328E SOURCE Unable to unassign rank: Service intent is set. **Explanation**

The rank has been flagged to be serviced. No activities can be performed on the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02329E SOURCE Unable to delete rank: not in dual server mode **Explanation**

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02330E SOURCE Unable to repair array: Service intent is set. **Explanation**

The array has been flagged to be serviced. No activities can be performed on the array while the service flag is set.

Action

Wait until service is completed on the array, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02331E SOURCE Unable to delete rank

Explanation

The storage management console server reports a storage unit device adapter error.

Contact IBM technical support for assistance.

CMUN02332E SOURCE Unable to delete rank

Explanation

The storage management console server reports a storage unit device adapter

Action

Contact IBM technical support for assistance.

CMUN02333E SOURCE Unable to delete rank: Service intent is set.

Explanation

The rank has been flagged to be serviced. No activities can be performed on the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02334E SOURCE Unable to unfence volume through rank: Service intent is set.

Explanation

The rank has been flagged to be serviced. No activities can be performed on the rank or volumes within the rank while the service flag is set.

Action

Wait until service is completed on the rank, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02335E SOURCE Unable to create volumes: volume type must be specified

Explanation

No volume type has been specified for the volumes. The following volume types are supported, but you might be limited to a subset of these by other factors in your storage definition:

CKD base:

- · 3380 cylinder
- · 3390 cylinder

CKD single-CU alias

Fixed block base:

- 512-byte block
- · 520-byte block unprotected
- · 520-byte block protected

Action

Specify a valid volume type, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02336E SOURCE Unable to rebuild array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02337E SOURCE Unable to create or modify logical volume: CKD base logical volume does not exist.

Explanation

The specified logical volume does not exist or it is not a count-key-data base volume.

Action

Create the base logical volume or specify a different base logical volume, and then resubmit the task.

CMUN02338E SOURCE Delete SCSI host port operation stopped. Previous attempt failed.

Explanation

The storage management console server reports a storage unit microcode-level error. A list of SCSI host ports are specified to be deleted. Because a previous deletion failed, successive deletions in the list have stopped.

Action

Contact IBM technical support for assistance.

CMUN02339E SOURCE Delete volume group operation stopped. Previous attempt failed.

Explanation

The storage management console server reports a storage unit microcode-level error. A list of volume groups are specified to be deleted. Because a previous

deletion failed, successive deletions in the list have stopped.

Action

Contact IBM technical support for assistance.

CMUN02340E SOURCE Array site operation failure: The array site is used in another array.

Explanation

The specified array site is used in other array.

Action

Specify an unused array site, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02341E SOURCE Logical subsystem configuration error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02342E SOURCE Unable to delete last rank. Logical control unit exists.

Explanation

The last rank cannot be deleted because one or more logical control units still exist.

Action

Delete all logical control units, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02343E SOURCE Unable to create logical subsystem: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02344E SOURCE Unable to delete logical subsystem: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02345E SOURCE Unable to create logical volume: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02346E SOURCE Unable to create logical volume: logical subsystem not in correct state

Explanation

The storage management console server reports a storage unit microcode-level error. The logical volume cannot be created because its logical subsystem is not in the correct state.

Action

Contact IBM technical support for assistance.

CMUN02347E SOURCE Unable to delete logical volume: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02348E SOURCE Operation failure: logical subsystem not in correct state

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02349E SOURCE Unable to modify logical volume: incorrect state **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02350E SOURCE Logical volume operation failure: incorrect state

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02351E SOURCE Logical volume operation failure: Base volume is in incorrect state.

Explanation

The logical volume operation fails because its base logical volume is not in the correct state.

Action

Change the configuration state of the base logical volume, or wait until its configuration completes, and then resubmit the task.

CMUN02352E SOURCE Operation failure

Explanation

Contact IBM technical support for assistance.

CMUN02353E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02354E SOURCE Operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02355E SOURCE Unable to delete SCSI host port

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02356E SOURCE Unable to create SCSI host port: invalid user host description

Explanation

The SCSI host port specification contains an invalid user host description. The SCSI host port cannot be created.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02357E SOURCE Unable to create SCSI host port: invalid user host name

Explanation

The SCSI host port specification contains an invalid user host name. The SCSI host port cannot be created.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02358E SOURCE Unable to modify SCSI host port: invalid user host description

Explanation

The SCSI host port specification contains an invalid user host description. The SCSI host port cannot be modified.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02359E SOURCE Unable to modify SCSI host port: invalid user host name

Explanation

The SCSI host port specification contains an invalid user host name. The SCSI host port cannot be modified.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02360E SOURCE Unable to add logical volume to volume group: invalid parameter

Explanation

The operation to add the logical volume to the volume group fails because an invalid parameter is detected.

Action

Correct the specification, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02361E SOURCE Unable to modify volume group: invalid user name **Explanation**

The volume group cannot be modified because the user name that is provided is invalid.

Action

Use a valid user name with appropriate permissions, and then resubmit the task.

CMUN02362E SOURCE Unable to query volume groups: incorrect volume configuration

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02363E SOURCE Unable to query volume groups: invalid parameter **Explanation**

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02364E SOURCE Unable to query volume groups: volume does not exist

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02365E SOURCE Unable to remove logical volume from volume group: invalid parameter

Explanation

Contact IBM technical support for assistance.

CMUN02366E SOURCE Volume group operation failure: local server offline

Explanation

The storage management console server reports a storage unit microcode-level error. A local server is not online. Microcode initialization might not have completed, or a failover has occurred and one server has not yet restarted.

Action

Monitor system status, and resubmit the task when both servers are online. If the problem persists, contact IBM technical support for assistance.

CMUN02367E SOURCE Volume group operation failure: incorrect volume configuration

Explanation

The storage management console server reports a storage unit microcode-level error

Action

Contact IBM technical support for assistance.

CMUN02368E SOURCE Volume group operation failure: volume does not exist

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02369E SOURCE Volume group operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02370E SOURCE Volume group operation failure: incorrect volume configuration

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02371E SOURCE Volume group operation failure: invalid parameter

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02372E SOURCE Volume group operation failure: volume does not exist

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02373E SOURCE Volume group operation failure: invalid parameter

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02374E SOURCE Unable to delete volume group

Explanation

Contact IBM technical support for assistance.

CMUN02375E SOURCE Volume group operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02376E SOURCE Unable to modify logical volume: invalid data type

Explanation

The logical volume cannot be modified because the specification contains an invalid data type.

Action

Specify a valid data type, and the resubmit the task.

CMUN02377E SOURCE Error: inconsistent alias and base logical volume numbers

Explanation

The first two digits of an alias logical volume number and its base logical volume number must be identical.

Action

Specify consistent alias and base logical volume numbers, and then resubmit the task.

CMUN02378E SOURCE Error: A volume of this type cannot have an alias volume group.

Explanation

An alias volume group is specified for a volume type that does not support the specification of aliases.

Action

Correct the specification, and then resubmit the task.

CMUN02379E SOURCE Error: A volume of this type cannot have a base logical volume number.

Explanation

A base logical volume number is specified for a volume type that does not support the specification of base logical volumes.

Action

Correct the specification, and then resubmit the task.

CMUN02380E SOURCE Unable to create array. Array sites must be in the same loop.

Explanation

Array creation across loops is not supported. The specified array sites are not in the same loop, and an array cannot be created using these array sites.

Action

Specify arrays that are in the same loop, and then resubmit the task.

CMUN02381E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02382E SOURCE Unable to repair array

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02383E SOURCE Unable to create, delete, or modify logical subsystem resources. Resource manager unavailable on alternate server.

Explanation

Contact IBM technical support for assistance.

CMUN02384E SOURCE Operation failure: invalid file type

Explanation

The storage management console server reports a storage unit microcode-level error. A configuation file is not the correct file type.

Action

Contact IBM technical support for assistance.

CMUN02385E SOURCE Unable to modify network port: The specified IP address is invalid.

Explanation

The storage management console server reports a storage unit microcode-level error. An invalid IP address is specified.

Action

Contact IBM technical support for assistance.

CMUN02386E SOURCE Unable to modify network port: The specified network is invalid.

Explanation

The storage management console server reports a storage unit microcode-level error. An invalid network is specified.

Action

Contact IBM technical support for assistance.

CMUN02387E SOURCE Unable to create array. At least one and no more than two array sites must be specified.

Explanation

You must specify at least one and no more than two array sites when you create RAID5 or RAID10 arrays.

Action

Specify one or two array sites, and then resubmit the task.

CMUN02388E Invalid logical volume size. See the help text for this message for valid sizes.

Explanation

The specified volume size is not supported on all platforms. Supported logical volume sizes are microcode level dependent.

For DS microcode levels 5.0.3 and above:

- Supported Enterprise Storage System (ESS) logical volume sizes range from 0.1 to 982.2 decimal gigabytes (1GB = 10^9 bytes). You can calculate the exact number of 512 byte blocks as INT((INT(GBx10^9/512)+63)/64)x64. The size of the volume that is created on the ESS is identical to the size of the volume that is created on the DS.
- Supported DS logical volume sizes range from 1 to 2048 binary gigabytes (1GB = 2^30 bytes). This allocation uses the storage capacity of DS systems most efficiently.
- Supported block logical volume sizes range from 1 to 4 binary gigablocks (1 gigablock = 2^30 512-byte blocks). If a specified size matches a supported DS or ESS logical volume size, the volume is identified as a DS or ESS logical volume, even though it is created by specifying the blocks volume type.
- Supported iSeries logical volume sizes are expressed in decimal gigabytes (1GB = 10⁹ bytes):

```
A0 (8.6 GB protected) A81 (8.6GB, unprotected)
A02 (17.5 GB protected) A82 (17.5 GB unprotected)
A04 (70.5 GB protected) A84 (70.5 GB unprotected)
A05 (35.1 GB protected) A85 (35.1 GB unprotected)
A06 (141.12 GB protected) A86 (141.12 GB unprotected)
A07 (282.25 GB protected) A87 (282.25 GB unprotected)
```

For DS microcode levels 5.0.1 and 5.0.2, block logical volume sizes must be a multiple of 128, and ESS logical volume sizes must be in the following list:

```
0.1(0.1)
                  0.2(0.2)
                                   0.3(0.3)
                                                   0.4(0.4)
                  1.0 (0.9)
  0.9(0.8)
                                   1.1 (1.0)
                                                   1.2 (1.1)
  1.7 (1.6)
                  1.8 (1.7)
                                   1.9 (1.8)
                                                   2.0(1.9)
                  2.6 (2.4)
                                                   2.8(2.6)
 2.5(2.3)
                                   2.7(2.5)
                  3.4 (3.2)
 3.3 (3.1)
                                                   3.6 (3.4)
                                   3.5(3.3)
  3.7 (3.4)
                  4.2 (3.9)
                                   4.3 (4.0)
                                                   4.4 (4.1)
  4.5(4.2)
                  5.0 (4.7)
                                   5.1 (4.7)
                                                   5.2 (4.8)
  5.3 (4.9)
                  5.8 (5.4)
                                   5.9 (5.5)
                                                   6.0(5.6)
                  6.7 (6.2)
  6.1(5.7)
                                   6.8(6.3)
                                                   6.9(6.4)
 7.0 (6.5)
                                   7.6 (7.1)
                                                   7.7 (7.2)
                  7.5(7.0)
 7.8 (7.3)
                  8.3 (7.7)
                                   8.4 (7.8)
                                                   8.5 (7.9)
 8.6 (8.0)
                  9.1 (8.5)
                                   9.2 (8.6)
                                                   9.3 (8.7)
                 10.0 (9.3)
 9.4 (8.8)
                                  10.1 (9.4)
                                                  10.2 (9.5)
                                 10.9 (10.2)
                                                 11.0 (10.2)
                10.8 (10.1)
 10.3 (9.6)
                                                 11.8 (11.0)
11.1 (10.3)
                11.6 (10.8)
                                 11.7 (10.9)
                12.4 (11.5)
                                 12.5 (11.6)
11.9 (11.1)
                                                  12.6 (11.7)
12.7 (11.8)
                13.3 (12.4)
                                 13.4 (12.5)
                                                  13.5 (12.6)
13.6 (12.7)
                                 14.2 (13.2)
                                                 14.3 (13.3)
                14.1 (13.1)
14.4 (13.4)
                14.9 (13.9)
                                 15.0 (14.0)
                                                  15.1 (14.1)
                15.7 (14.6)
15.2 (14.2)
                                 15.8 (14.7)
                                                  15.9 (14.8)
16.0 (14.9)
                16.6 (15.5)
                                 16.7 (15.6)
                                                  16.8 (15.6)
16.9 (15.7)
                17.4 (16.2)
                                 17.5 (16.3)
                                                  17.6 (16.4)
                                                 18.4 (17.1)
                18.2 (17.0)
17.7 (16.5)
                                 18.3 (17.0)
18.5 (17.2)
                19.0 (17.7)
                                 19.1 (17.8)
                                                  19.2 (17.9)
19.3 (18.0)
                19.4 (18.1)
                                 19.9 (18.5)
                                                  20.0 (18.6)
20.1 (18.7)
                20.2 (18.8)
                                 20.7 (19.3)
                                                  20.8 (19.4)
```

20.9	(19.5) (20.2)		(19.6) (20.3)	21.5 (20.0) 22.3 (20.8)	21.6 (20.1) 22.4 (20.9)
22.5	(21.0) (21.7)	22.6	(21.0) (21.8)	22.7 (21.1) 23.5 (21.9)	23.2 (21.6) 24.0 (22.4)
24.1	(22.4)	24.2	(22.5)	24.3 (22.6)	24.8 (23.1)
24.9	(23.2)	25.0	(23.3)	25.1 (23.4)	25.6 (23.8)
25.7	(23.9)	25.8	(24.0)	25.9 (24.1)	26.0 (24.2)
26.5	(24.7)	26.6	(24.8)	26.7 (24.9)	26.8 (25.0)
27.3	(25.4)	27.4	(25.5)	27.5 (25.6)	27.6 (25.7)
28.1	(26.2) (26.9)	28.2	(26.3) (27.0)	28.3 (26.4) 29.1 (27.1)	28.4 (26.4) 29.2 (27.2)
29.3	(27.3)	29.8	(27.8)	29.9 (27.8)	30.0 (27.9)
30.1	(28.0)	30.6	(28.5)	30.7 (28.6)	30.8 (28.7)
30.9	(28.8)	31.4	(29.2)	31.5 (29.3)	31.6 (29.4)
31.7	(29.5)	32.3	(30.1)	32.4 (30.2)	32.5 (30.3)
32.6	(30.4)	33.1	(30.8)	33.2 (30.9)	33.3 (31.0)
33.4	(31.1)	33.9	(31.6)	34.0 (31.7)	34.1 (31.8)
	(31.9)	34.7	(32.3)	34.8 (32.4)	34.9 (32.5)
35.0	(32.6)	35.6	(33.2)	35.7 (33.2)	35.8 (33.3)
35.9	(33.4)	36.4	(33.9)	36.5 (34.0)	36.6 (34.1)
36.7	(34.2)	37.2	(34.6)	37.3 (34.7)	37.4 (34.8)
37.5	(34.9)	38.0	(35.4)	38.1 (35.5)	38.2 (35.6)
38.3	(35.7)	38.9	(36.2)	39.0 (36.3)	39.1 (36.4)
39.2	(36.5)	39.7	(37.0)	39.8 (37.1)	39.9 (37.2)
40.0	(37.3)	40.5	(37.7)	40.6 (37.8)	40.7 (37.9)
40.8	(38.0)	41.3	(38.5)	41.4 (38.6)	41.5 (38.6)
41.6	(38.7)	42.2	(39.3)	42.3 (39.4)	42.4 (39.5)
42.5	(39.6)		(40.0)	43.1 (40.1)	43.2 (40.2)
44.1	(40.3) (41.1)	43.8	(40.8) (41.5)	43.9 (40.9) 44.7 (41.6)	44.0 (41.0) 44.8 (41.7)
44.9	(41.8)	45.0	(41.9)	45.5 (42.4)	45.6 (42.5)
45.7	(42.6)	45.8	(42.7)	46.3 (43.1)	46.4 (43.2)
46.5	(43.3)	46.6	(43.4)	47.1 (43.9)	47.2 (44.0)
47.3	(44.1)	47.4	(44.1)	47.9 (44.6)	48.0 (44.7)
48.1	(44.8)	48.2	(44.9)	48.3 (45.0)	48.8 (45.4)
48.9	(45.5)	49.0	(45.6)	49.1 (45.7)	49.6 (46.2)
49.7	(46.3)	49.8	(46.4)	49.9 (46.5)	50.4 (46.9)
50.5	(47.0)	50.6	(47.1)	50.7 (47.2)	51.2 (47.7)
51.3	(47.8)	51.4	(47.9)	51.5 (48.0)	51.6 (48.1)
52.1	(48.5)	52.2	(48.6)	52.3 (48.7)	52.4 (48.8)
52.9	(49.3)	53.0	(49.4)	53.1 (49.5)	53.2 (49.5)
53.7	(50.0)	53.8	(50.1)	53.9 (50.2)	54.0 (50.3)
54.5	(50.8)	54.6	(50.9)	54.7 (50.9)	54.8 (51.0)
54.9	(51.1)	55.4	(51.6)	55.5 (51.7)	55.6 (51.8)
55.7	(51.9)	56.2	(52.3)	56.3 (52.4)	56.4 (52.5)
56.5	(52.6)	57.0	(53.1)	57.1 (53.2)	57.2 (53.3)
57.3	(53.4)	57.9	(53.9)	58.0 (54.0)	58.1 (54.1)
58.2	(54.2)	58.7	(54.7)	58.8 (54.8)	58.9 (54.9)
59.0	(54.9)	59.5	(55.4)	59.6 (55.5)	59.7 (55.6)
59.8	(55.7)	60.3	(56.2)	60.4 (56.3)	60.5 (56.3)
60.6	(56.4)	61.2	(57.0)	61.3 (57.1)	61.4 (57.2)
61.5	(57.3)	62.0	(57.7)	62.1 (57.8)	62.2 (57.9)
62.3	(58.0)	62.8	(58.5)	62.9 (58.6)	63.0 (58.7)
63.1	(58.8)	63.6	(59.2)	63.7 (59.3)	63.8 (59.4)
63.9	(59.5)	64.5	(60.1)	64.6 (60.2)	64.7 (60.3)
64.8	(60.3)	65.3	(60.8)	65.4 (60.9)	65.5 (61.0)
65.6	(61.1)		(61.6)	66.2 (61.7)	66.3 (61.7)
66.4	(61.8)	66.9	(62.3)	67.0 (62.4)	67.1 (62.5)
67.2	(62.6)	67.8	(63.1)	67.9 (63.2)	68.0 (63.3)
68.1	(63.4)	68.6	(63.9)	68.7 (64.0)	68.8 (64.1)
68.9	(64.2)	69.4	(64.6)	69.5 (64.7)	69.6 (64.8)
69.7	(64.9)	70.2	(65.4)	70.3 (65.5)	70.4 (65.6)
70.5	(65.7)	70.6	(65.8)	71.1 (66.2)	71.2 (66.3)
71.3	(66.4)	71.4	(66.5)	71.9 (67.0)	72.0 (67.1)
72.1	(67.1)	72.2	(67.2)	72.7 (67.7)	72.8 (67.8)
72.9	(67.9)	73.0	(68.0)	73.5 (68.5)	73.6 (68.5)
73.7	(68.6)	73.8	(68.7)	73.9 (68.8)	74.4 (69.3)

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149.7 (139.4)	149.8 (139.5)	150.3 (140.0)	150.4 (140.1)
150.5 (140.2)	150.6 (140.3)	150.7 (140.4)	151.2 (140.8)
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343.1	(319.5)	343.6	(320.0)	343.7	(320.1)	343.8	(320.2)
343.9	(320.3)	344.4	(320.7)	344.5	(320.8)	344.6	(320.9)
344.7	(321.0)	345.2	(321.5)	345.3	(321.6)	345.4	(321.7)
345.5	(321.8)	346.1	(322.3)	346.2	(322.4)	346.3	(322.5)
346.4	(322.6)	346.9	(323.1)	347.0	(323.2)	347.1	(323.3)
347.2	(323.4)	347.7	(323.8)	347.8	(323.9)	347.9	(324.0)
348.0	(324.1)	348.5	(324.6)	348.6	(324.7)	348.7	(324.8)
348.8	(324.8)	349.4	(325.4)	349.5	(325.5)	349.6	(325.6)
349.7	(325.7)	350.2	(326.1)	350.3	(326.2)	350.4	(326.3)
350.5	(326.4)	351.0	(326.9)	351.1	(327.0)	351.2	(327.1)
351.3	(327.2)	351.8	(327.6)	351.9	(327.7)	352.0	(327.8)
352.1	(327.9)	352.2	(328.0)	352.7	(328.5)	352.8	(328.6)
352.9	(328.7)	353.0		353.5	(329.2)	353.6	(329.3)
353.7	(329.4)	353.8	(329.5)	354.3	(330.0)	354.4	(323.3) (330.1)
354.5	(330.2)	354.6	(330.2)	355.1	(330.7)	355.2	(330.8)
355.3	(330.9)	355.4	(331.0)	355.5	(331.1)	356.0	(331.6)
356.1	(331.6)	356.2	(331.7)	356.3	(331.8)	356.8	(332.3)
356.9	(332.4)	357.0	(332.5)	357.1	(332.6)	357.6	(333.0)
357.7	(333.1)	357.8	(333.2)	357.9	(333.3)	358.4	(333.8)
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359.3	(334.6)	359.4	(334.7)	359.5	(334.8)	359.6	(334.9)
360.1	(335.4)	360.2		360.3	(335.6)	360.4	(335.6)
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361.7	(336.1)	361.8	(337.0)	361.9	(337.0)	362.0	(337.1)
362.1	(337.2)	362.6		362.7	(337.8)	362.8	(337.9)
362.9	(338.0)	363.4	(338.4)	363.5	(338.5)	363.6	(338.6)
363.7	(338.7)	364.2	(339.2)	364.3	(339.3)	364.4	(339.4)
364.5	(339.5)	365.1	(340.0)	365.2	(340.1)	365.3	(340.2)
365.4	(340.3)	365.9	(340.8)	366.0	(340.9)	366.1	(341.0)
366.2	(341.1)	366.7	(341.5)	366.8	(341.6)	366.9	(341.7)
367.0	(341.8)	367.5	(342.3)	367.6	(342.4)	367.7	(342.4)
367.8	(342.5)	368.4	(343.1)	368.5	(343.2)	368.6	(343.3)
368.7	(343.4)	369.2	(343.8)	369.3	(343.9)	369.4	(344.0)
369.5	(344.1)	370.0	(344.6)	370.1	(344.7)	370.2	(344.8)
370.3	(344.9)	370.8	(345.3)	370.9	(345.4)	371.0	(345.5)
371.1	(345.6)	371.7	(346.2)	371.8	(346.3)	371.9	(346.4)
372.0	(346.5)	372.5	(346.9)	372.6	(347.0)	372.7	(347.1)
372.8	(347.2)	373.3	(347.7)	373.4	(347.8)	373.5	(347.8)
373.6	(347.9)	374.1	(348.4)	374.2	(348.5)	374.3	(348.6)
374.4	(348.7)	375.0	(349.2)	375.1	(349.3)	375.2	(349.4)
375.3	(349.5)	375.8	(350.0)	375.9	(350.1)	376.0	(350.2)
376.1	(350.3)	376.6	(350.7)	376.7	(350.8)	376.8	(350.9)
376.9	(351.0)	377.4	,	377.5	(351.6)	377.6	(351.7)
377.7	(351.8)	377.8	(351.9)	378.3	(352.3)	378.4	(352.4)
378.5	(352.5)	378.6	(352.6)	379.1	(353.1)	379.2	(353.2)
379.3	(353.3)	379.4	. ,	379.9	. ,	380.0	(353.2)
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380.1	(354.0)		(354.1)	380.7	1 1	380.8	(354.6)
380.9	(354.7)		(354.8)	381.1	(354.9)	381.6	(355.4)
381.7	(355.5)	381.8		381.9		382.4	(356.1)
382.5	(356.2)	382.6	(356.3)	382.7	(356.4)	383.2	(356.9)
383.3	(357.0)	383.4	(357.1)	383.5	(357.2)	384.0	(357.6)
384.1	(357.7)	384.2		384.3	(357.9)	384.4	(358.0)
384.9	(358.5)	385.0	(358.6)	385.1	(358.7)	385.2	(358.7)
385.7	(359.2)	385.8	(359.3)	385.9	(359.4)	386.0	(359.5)
386.5	(360.0)	386.6		386.7	(360.1)	386.8	(360.2)
387.3	(360.7)	387.4	1 1	387.5	(360.9)	387.6	(361.0)
387.7	(361.1)	388.2	(361.5)	388.3	(361.6)	388.4	(361.7)
388.5	(361.8)	389.0	(362.3)	389.1	(362.4)	389.2	(362.5)
389.3	(362.6)	389.8	(363.0)	389.9	1 1	390.0	(363.2)
390.1		390.7	(363.9)				
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391.0	(364.1)	391.5	(364.6)	391.6		391.7	(364.8)
391.8	(364.9)	392.3	(365.4)		(365.5)	392.5	(365.5)
392.6	(365.6)	393.1	(366.1)	393.2	(366.2)	393.3	(366.3)
393.4	(366.4)	394.0	(366.9)	394.1	(367.0)	394.2	(367.1)
394.3	(367.2)	394.8	(367.7)	394.9	(367.8)	395.0	(367.9)
395.1	(368.0)	395.6	(368.4)	395.7	(368.5)	395.8	(368.6)

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Specify a valid volume size and then resubmit the task.

CMUN02389E SOURCE Unable to create volume. Not enough extents are available.

Explanation

The volume cannot be created because not enough extents are available in the extent pool. More extents must be added to the extent pool.

Action

Add more extents to the extent pool, and then resubmit the task.

CMUN02390E SOURCE Unable to create volume. Not enough extents are available at this time.

Explanation

The volume cannot be created because not enough extents are available. However, freed extents in the extent pool are being reformatted. Enough extents will be available when the reformatting process completes. One terabyte of disk space can be reformatted in approximately four hours.

Action

Wait until reformatting completes, and then resubmit the task.

CMUN02391E SOURCE Unable to delete CKD base volume. Unable to delete or reassign aliases.

Explanation

The storage management console server reports a storage unit microcode-level error. The CKD base volume cannot be deleted because its alias volumes cannot be deleted or reassigned.

Action

Delete or reassign the alias volumes first, and then resubmit the task.

CMUN02392E SOURCE Invalid alias volume group

Explanation

The specified alias volume group does not exist or is not a FICON/ESCON - MASK type volume group. Volume group 10 is the default valid volume group of this type.

Action

Specify a valid volume group, and then resubmit the task.

CMUN02393E SOURCE Unable to create or modify CKD alias volume. The base and alias volumes belong to different logical subsystems.

Explanation

The base and its alias volumes must belong to the same logical subsystem.

Action

Specify base and alias volumes that belong to the same logical subsystem, and then resubmit the task.

CMUN02394E SOURCE Unable to create or modify CKD alias volume. The maximum number of aliases are already assigned to the base volume.

Explanation

A maximum of 255 aliases can be assigned to a base volume. The specified base volume already has 255 aliases that are assigned to it.

Action

Specify a different base volume, or reassign some of the previously assigned alias volumes, and then resubmit the task.

CMUN02395E SOURCE Unable to create or modify CKD alias volume. The base volume and alias volume are not in the same volume group.

Explanation

The base volume and alias volume must be in the same volume group. To create a new alias volume in the volume group, assign the base volume to the volume group, and then create the alias volume in the volume group. To modify an existing alias volume, you must select a base volume that is already in that volume group.

Action

Specify a base volume and alias volume that are in the same volume group and then resubmit the task

CMUN02396E SOURCE Contact information must be entered before you can invoke call home.

Explanation

Your company name, machine location, ship to country, and contact primary telephone number must be entered before you can invoke the call home task.

Action

Use the IBM TotalStorage DS Command-Line Interface setcontactinfo command, or the IBM TotalStorage DS Storage Manager Company information work sheet to enter contact information. Then resubmit the task.

CMUN02397E SOURCE Unable to delete volume: The volume does not exist.

Explanation

The specified volume cannot be found. Therefore, it cannot be deleted.

Action

Specify a different volume to delete.

CMUN02398E SOURCE Unable to create array. All array sites must be in the same loop.

Explanation

The specified array sites are not in the same adapter loop. All of the array sites for the array must be in the same adapter loop.

Action

Specify array sites in the same loop, and then resubmit the task.

CMUN02399E SOURCE Unable to create array. A RAID5 array can have only one spare.

Explanation

More than one spare is specified for the array. A RAID5 array can have only one spare.

Action

Specify only one spare for the array, and then resubmit the task.

CMUN02400E SOURCE Unable to create logical subsystem: invalid address group

Explanation

The specification contains an invalid address group.

Action

Specify a valid address group, and then resubmit the task.

CMUN02401E SOURCE Unable to create logical subsystem: microcode-level error

Explanation

The storage management console server reports a storage unit microcode-level error.

Contact IBM technical support for assistance.

CMUN02402E SOURCE Unable to create rank: failed disk drives detected

Explanation

The specified storage includes failed disk drives. These drives must be replaced before a rank can be created on them.

Action

Specify a different array, or ensure that the failed disk drives are replaced. Then resubmit the task.

CMUN02403E SOURCE Unable to create rank: not a licensed operation **Explanation**

Your current license does not permit you to create the rank.

Action

Obtain and install the appropriate license key, and then resubmit the task.

CMUN02404E SOURCE Unable to create rank: maximum number of ranks already created

Explanation

The maximum number of ranks already has been created.

Action

Delete unused ranks or install and license more storage capacity. Then resubmit the task.

CMUN02405E SOURCE Unable to delete rank: Extents on the rank are in use.

Explanation

Extents on the rank are still assigned to a valid volume group. You must delete volumes that use extents on the rank before you can delete the rank.

Action

Ensure that no extents from the rank are assigned, and then resubmit the task.

CMUN02406E SOURCE Internal logical configuration error: Collect a PE package.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Collect a PE package and contact IBM technical support for assistance.

CMUN02407E SOURCE Array operation failure: Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02408E SOURCE Array creation failure: Too many array sites specified.

Explanation

You must specify only one array site when creating RAID5 or RAID10 arrays. Multiple array sites are specified.

Action

Specify only one array site, and then resubmit the task.

CMUN02409E SOURCE Rank operation failure: Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02410E SOURCE Extent pool operation failure: Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02411E SOURCE Logical volume operation failure: Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02412E SOURCE Volume group operation failure: Host agent Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02413E SOURCE SCSI host port operation failure: Host agent Resource Manager not available on alternate server

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02414E SOURCE Unable to create SCSI host port. A colon ":" cannot be used when specifying a SCSI host port.

Explanation

A colon ":" is used in a SCSI host port specification. This character cannot be used in a SCSI host port specification.

Action

Omit the colon, and then resubmit the task.

CMUN02415E SOURCE Unable to modify SCSI host port. A colon ":" cannot be used when specifying a SCSI host port.

Explanation

A colon ":" is used in a SCSI host port specification. This character cannot be used in a SCSI host port specification.

Action

Omit the colon, and then resubmit the task.

CMUN02416E SOURCE Rank repair operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02417E SOURCE Rank repair operation failure

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02418E SOURCE Rank repair operation failure: At least one array must be in assigned status.

Explanation

The storage management console server reports a storage unit microcode-level error.

Contact IBM technical support for assistance.

CMUN02419E SOURCE Rank repair operation failure: Service intent flag is set.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02420E SOURCE Rank repair operation failure

Explanation

The storage management console server reports a storage unit microcode-level

Action

Contact IBM technical support for assistance.

CMUN02421E SOURCE Rank repair operation failure: Unable to establish array site communication session.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02422E SOURCE Rank repair operation failure: Unable to retrieve adapter name.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02423E SOURCE Rank repair operation failure: device adapter error

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02424E SOURCE Rank repair operation failure: Multiple ranks exist or the rank is still accessible.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02425E SOURCE Rank repair operation failure: Unable to delete RAID array.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02426E SOURCE Rank repair operation failure: Unable to retrieve serial number.

Explanation

The storage management console server reports a storage unit microcode-level error.

Action

CMUN02427E SOURCE Internal logical configuration error: Another configuration is in progress.

Explanation

The storage management console server reports a storage unit microcode-level error. Another configuration process is in progress. Your task cannot be performed at this time.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02428E SOURCE Unable to create rank. Disks are being formatted.

Explanation

The rank cannot be created until disk reformatting completes.

Action

Wait until disk reformatting completes, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02429E SOURCE A recovery is in progress. Logical configuration commands are blocked.

Explanation

A recovery is in progress. Logical configurations commands are rejected until recovery completes.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02430E SOURCE Invalid configuration: The base and alias/map volumes must be in the same volume group.

Explanation

A volume group cannot contain an alias/map volume unless the base volume is also in that group.

Action

Ensure that the base and alias/map volumes are in the same volume group, and then resubmit the task.

CMUN02431E SOURCE Invalid configuration: A volume group cannot contain unconfigured logical volumes.

Explanation

A volume group cannot contain an unconfigured volume. One or more of the specified volumes is not in the configured state.

Action

Specify only configured volumes, and then resubmit the task.

CMUN02432E SOURCE Invalid configuration: volume group and volume type mismatch

Explanation

A FICON ESCON mixed volume group can contain only logical volumes of the following types:

- count-key-data base
- count-key-data alias
- · count-key-data map
- 512-byte fixed-block

Action

Specify logical volumes of the correct type, and then resubmit the task.

CMUN02433E SOURCE Invalid configuration: 512-byte fixed-block volumes must share data.

Explanation

In a FICON ESCON mixed volume group all logical volumes of type 512-byte fixed-block must have data sharing allowed set to true.

Action

Ensure that all 512-byte fixed-block volumes permit data sharing, and then resubmit the task.

CMUN02434E SOURCE Invalid configuration: volume group and volume type mismatch

Explanation

A FICON ESCON (not mixed) volume group can contain only logical volumes of the following types: count-key-data base or count-key-data alias.

Action

Specify only count-key-data base or count-key-data alias volumes, and then resubmit the task.

CMUN02435E SOURCE Invalid configuration: volume group and volume type mismatch

Explanation

A SCSI (not mixed) volume group must contain only logical volumes of type 512-byte fixed-block.

Action

Specify only 512-byte fixed-block logical volumes, and then resubmit the task.

CMUN02436E SOURCE Invalid configuration: volume group and volume type mismatch

Explanation

A SCSI mixed volume group must contain only logical volumes of the following types:

- fixed-block map
- · count-key-data base
- · 520-byte fixed-block

Action

Specify only volumes of types fixed-block map, count-key-data base, or 520-byte fixed-block base. Then resubmit the task.

CMUN02437E SOURCE Invalid configuration: CKD base logical volumes must share data.

Explanation

In a SCSI mixed volume group, all count-key-data base logical volumes must have data sharing allowed set to true.

Action

Ensure that all count-key-data base logical volumes permit data sharing, and then resubmit the task.

CMUN02438E SOURCE Invalid configuration: volume group and volume type mismatch

Explanation

A SCSI520 MASK volume group must contain only logical volumes of type 520-byte fixed block.

Action

Specify only 520-byte fixed block logical volumes, and then resubmit the task.

CMUN02439E SOURCE Unable to create rank. DDM repair is required or in progress.

Explanation

The rank cannot be created because disk drive repair is required or is in progress.

Action

Wait until the drives have been repaired, and then resubmit the task.

CMUN03000E SOURCE Operation failure: action cancelled due to lack of resources

Explanation

The storage management console server reports a Copy Services error. The storage unit did not have enough resources to complete the task.

Action

Contact IBM technical support for assistance.

CMUN03001E SOURCE Operation failure: action not supported **Explanation**

The storage management console server reports a Copy Services error. The command is not supported by the current microcode.

Action

Ensure that the latest version of microcode is installed on your storage unit. Contact IBM technical support for assistance.

CMUN03002E SOURCE Operation failure: action not supported **Explanation**

The storage management console server reports a Copy Services error. The command is not supported by the current microcode.

Action

Ensure that the latest version of microcode is installed on your storage unit. Contact IBM technical support for assistance.

CMUN03003E SOURCE Copy Services operation failure: currently processing a previously issued Global Mirror command **Explanation**

The task is being rejected because a previously issued task is still being processed.

Wait until the first process completes, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN03004E SOURCE Copy Services operation failure: Global Mirror command not properly defined

Explanation

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03005E SOURCE Copy Services operation failure: Global Mirror feature not installed

Explanation

The Global Mirror feature is not installed on this storage image.

Action

Install and license the feature, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03006E SOURCE Copy Services operation failure: Global Mirror structures not available

Explanation

A Global Mirror command fails because an internal error occurs or because the storage image is in single cluster mode.

Action

Check for hardware errors and ensure that the storage image is in dual cluster mode. If the problem persists, contact IBM technical support for assistance.

CMUN03007E SOURCE Copy Services operation failure: FlashCopy battery feature not installed

Explanation

The task cannot be initiated because the FlashCopy battery feature is not installed.

Action

Install the FlashCopy battery feature, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03008E SOURCE Copy Services operation failure: cascading FlashCopy prohibited

Explanation

A FlashCopy target cannot be a FlashCopy source or the target of another relationship.

Action

Specify a logical volume that is not a FlashCopy target, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03009E SOURCE Copy Services operation failure: cascading primary

Explanation

A cascading primary logical volume cannot be in a Global Mirror relationship.

Action

Specify a logical volume that is not a cascading primary, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03010E SOURCE Copy Services operation failure: cascading secondary noncascade

Explanation

The specified volume was not established with the cascading option.

Action

Specify a volume that has been established with the cascading option, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03011E SOURCE Copy Services operation failure: cascading secondary synchronous

Explanation

Cascading secondaries cannot be primary volumes in a Metro Mirror relationship.

Action

Specify a logical volume that is not a cascading secondary, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03012E SOURCE Remote Mirror and Copy operation failure

Explanation

The storage management console server reports a Remote Mirror and Copy error. One of the following conditions is occurring:

- · Abnormal conditions exist at the secondary controller.
- · Abnormal conditions exist at the secondary storage unit.
- The communication paths between the primary and remote controller are not
- Communication cannot be established with the secondary control unit.

Action

Check for hardware errors and disconnected cables, and follow the recommended service procedure. Check the status of the secondary system. If the problem persists, contact IBM technical support for assistance.

CMUN03013E SOURCE CKD management is disabled.

Explanation

Management of count-key-data resources on the storage unit is disabled.

Action

Contact IBM technical support for assistance.

CMUN03014E SOURCE Copy Services operation failure: A microcode code load is in progress.

Explanation

A microcode code load is in progress, and no other activities can take place on the storage unit.

Action

Wait until the microcode code load completes, and then resubmit the task.

CMUN03015E SOURCE Operation failure: consistent copy would be compromised

Explanation

A pause or end Global Mirror fails because the action cannot complete without compromising the consistent copy of the data.

Action

CMUN03016E SOURCE Copy Services feature not installed **Explanation**

The Copy Services feature is not installed on the storage unit.

Action

Contact IBM technical support for assistance.

CMUN03017E SOURCE Copy Services feature not supported.

Explanation

The storage unit does not support the requested Copy Services feature.

Action

Contact IBM technical support for assistance.

CMUN03018E SOURCE Copy Services server internal error

Explanation

The storage management console server reports a Copy Services server internal error.

Action

Contact IBM technical support for assistance.

CMUN03019E SOURCE Copy Services operation failure: critical volume mode unavailable

Explanation

Critical volume mode cannot be specified with Global Mirror.

Action

Do not specify critical volume mode, and then resubmit the task. Contact IBM technical support for assistance.

CMUN03020E SOURCE Copy Services operation failure: device not found

Explanation

One of the following might be occurring:

- · The request is being issued to an unconfigured logical volume.
- · The request requires at least one configured volume, and no volumes are configured for the logical subsystem.
- An unknown error

Ensure that a configured logical volume exists, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN03021E SOURCE Copy Services operation failure: device status cannot be determined

Explanation

A logical volume in the specification is either:

- · Unconfigured
- · Flagged for service
- In the status cannot be determined state
- · The wrong type

Action

Make the volume or underlying device available, or specify another volume, and then resubmit the task.

CMUN03022E SOURCE Copy Services operation failure: source is destination

Explanation

The source and destination ports for a path over FCP must be unique. No port can be used as both source and destination.

Action

Specify two distinct ports, and then resubmit the task.

CMUN03023E SOURCE Copy Services operation failure: ESCON - FCP collision

Explanation

An attempt is being made to establish ESCON paths between two control units with FCP paths that already exist between the control units, or an attempt is being made to establish FCP paths between two control units with ESCON paths that already exist between the control units.

Action

CMUN03024E SOURCE Copy Services operation failure: ESCON - FCP remove collision

Explanation

An attempt is being made to remove ESCON paths between two control units with FCP paths that also exist between the control units, or an attempt is being made to remove FCP paths between two control units with ESCON paths that also exist between the control units.

Action

Contact IBM technical support for assistance.

CMUN03025E SOURCE Copy Services operation failure: storage image not available

Explanation

Communication was the storage image failed.

Action

Ensure that the storage image is online and available.

CMUN03026E SOURCE Copy Services operation failure: storage image not found

Explanation

The storage image was not found in the Copy Services domain.

Action

Properly identify the storage image, and then resubmit the task.

CMUN03027E SOURCE FlashCopy operation failure: action prohibited by current FlashCopy state

Explanation

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03028E SOURCE Copy Services operation failure: master process conflict

Explanation

One of the following is taking place:

- · A start or resume Global Mirror command with no modify options is being issued to a storage image on which a master process is running.
- · A start or resume Global Mirror command with modify options is being issued, but the parameters do not match the existing configuration.
- A start or resume Global Mirror command with modify options is being issued. but the master process is not paused.

Ensure that the master process is not running and that the parameters match. Resubmit the task.

CMUN03029E SOURCE Copy Services operation failure: invalid failback primary

Explanation

The specified failback primary does not match the existing primary for the volume.

Action

Specify the correct primary, and then resubmit the task.

CMUN03030E SOURCE Copy Services operation failure: failback primary volume not suspended

Explanation

The Remote Mirror and Copy failback primary volume must be suspended before the task is issued.

Action

Suspend the failback primary volume, and then resubmit the task.

CMUN03031E SOURCE Copy Services operation failure: invalid failover primary site

Explanation

The specified failover primary site does not match the existing primary site for the volume.

Action

Specify the correct failover primary site, and then resubmit the task.

CMUN03032E SOURCE Operation failure: invalid failover secondary volume

Explanation

The failover action fails because the volume is not a full duplex Metro Mirror secondary volume.

Action

Ensure that the secondary volume is in full duplex mode, and then resubmit the task.

CMUN03033E SOURCE Copy Services operation failure: FCP - FICON path collision

Explanation

You are attempting to establish an FCP path on a port with existing FICON logical paths.

Action

Specify a port with no existing FICON paths, and then resubmit the task.

CMUN03034E SOURCE Copy Services operation failure: FCP connectivity queries are not supported by the storage image.

Explanation

FCP connectivity queries are not supported by the storage image.

Action

Contact IBM technical support for assistance.

CMUN03035E SOURCE Copy Services operation failure: feature not installed

Explanation

The specified feature is not installed.

Action

License and install the feature, and then resubmit the task.

CMUN03036E SOURCE Copy Services operation failure: maximum FlashCopy relationships exceeded or initialization in progress

Explanation

The requested FlashCopy Relationship cannot be established because the maximum number of relationships already are established or because the volume was recently created and is still being initialized to support FlashCopy (Release 5.0.* only).

If the volume is still being initialized, wait until the initialization completes, and then resubmit the request.

Action

Remove unnecessary relationships or wait until initialization completes, and then resubmit the task.

CMUN03037E SOURCE Copy Services operation failure: FlashCopy inhibited

Explanation

FlashCopy is inhibited on this volume.

Action

Contact IBM technical support for assistance.

CMUN03038E SOURCE Copy Services operation failure: Volume is already a FlashCopy target.

Explanation

The specified Remote Mirror and Copy secondary volume is already a FlashCopy target. It cannot be used as a target for another relationship.

Action

Specify a different target logical volume, and then resubmit the task.

CMUN03039E SOURCE Copy Services operation failure: maximum FlashCopy targets exceeded

Explanation

The maximum number of FlashCopy targets for this source has been exceeded.

Action

Remove any unwanted targets, and then resubmit the task.

CMUN03040E SOURCE Copy Services operation failure: maximum relationships exceeded

Explanation

The maximum number of FlashCopy relationships has been established for this volume. No more relationships can be created.

Action

Remove any unwanted relationships, and then resubmit the task.

CMUN03041E SOURCE Copy Services operation failure: already a FlashCopy source

Explanation

A FlashCopy source logical volume cannot be the source of a new relationship, and it cannot be the relationship target logical volume.

Action

Specify a different logical volume, and then resubmit the task.

CMUN03042E SOURCE Copy Services operation failure: already a FlashCopy target

Explanation

The specified target is already a FlashCopy target. A FlashCopy target cannot be the target of a new relationship.

Action

Specify a different target logical volume, and then resubmit the task.

CMUN03043E SOURCE Operation failure: functional code timeout **Explanation**

The storage management console server reports a storage unit microcode-level error. The storage unit does not respond in a satisfactory time period.

Action

Contact IBM technical support for assistance.

CMUN03044E SOURCE Copy Services operation failure: path not available

Explanation

The conduit logical subsystem does not have a relationship with the FlashCopy primary logical volume.

Specify a different conduit logical subsystem or establish a path, and then resubmit the task.

CMUN03045E SOURCE Copy Services operation failure: increment failed due to internal error

Explanation

The relationship cannot be incremented due to an internal error.

Action

Contact IBM technical support for assistance.

CMUN03046E SOURCE Copy Services operation failure: FlashCopy increment mismatch

Explanation

The increment of a FlashCopy relationship fails because the logical volumes are in relationships with other volumes.

Action

Specify the correct relationship or remove the other relationships, and then resubmit the task.

CMUN03047E SOURCE Copy Services operation failure: invalid fibre-channel protocol configuration

Explanation

Fibre-channel protocol paths are specified, but the adapters use fibre-channel arbitrated loop protocol.

Action

Specify compatible path and adapter protocols, and then resubmit the command.

CMUN03048E SOURCE Copy Services operation failure: invalid FlashCopy target

Explanation

The specified target is a Remote Mirror and Copy or Global Mirror primary volume.

Action

Specify a different target, and then resubmit the task.

CMUN03049E SOURCE Copy Services operation failure: incompatible volumes

Explanation

FlashCopy volumes must be the same capacity, and they must belong to the same logical subsystem.

Action

Specify volumes that are the same capacity and are on the same logical subsystem, and then resubmit the task.

CMUN03050E SOURCE Copy Services operation failure: invalid FlashCopy extent

Explanation

The FlashCopy operation does not allow the specification of extents.

Action

Contact IBM technical support for assistance.

CMUN03051E SOURCE Copy services operation failure: invalid FlashCopy source

Explanation

The FlashCopy source is not the target of the addressed Remote Mirror and Copy pair.

Action

Specify a different FlashCopy source or a different Remote Mirror and Copy pair, and then resubmit the task.

CMUN03052E SOURCE Copy Services operation failure: invalid secondary

Explanation

The storage management console server reports a Copy Services error. The secondary volume address is not valid.

Action

CMUN03053E SOURCE Copy Services operation failure: invalid transition

Explanation

The command attempts to perform an invalid transition between modes.

Action

Contact IBM technical support for assistance.

CMUN03054E SOURCE Copy Services operation failure: invalid revertible specification

Explanation

Either:

- A FlashCopy establish was specified with the revertible option for a pair that does not exist or is already revertible.
- A FlashCopy withdraw was specified on a pair that is not revertible.

Action

Specify a different pair, and then resubmit the command.

CMUN03055E SOURCE Copy Services operation failure: session or members not in correct state.

Explanation

The Global Mirror start fails because a session or session members are not in the correct state.

Action

Place the session or members in the correct state, and then resubmit the command.

CMUN03056E SOURCE Copy Services operation failure: invalid session state for FlashCopy

Explanation

The Global Mirror session is not in the correct state.

Action

CMUN03057E SOURCE Copy Services operation failure: invalid subsystem ID

Explanation

The specified subsystem ID cannot be found.

Action

Specify an valid subsystem ID, and then resubmit the task.

CMUN03058E SOURCE Copy Services Operation failure: invalid WWNN Explanation

The primary or secondary worldwide node name is invalid.

Action

Specify a valid worldwide node name, and then resubmit the task.

CMUN03059E SOURCE Copy Services operation failure: LSS not found Explanation

The logical subsystem was not found in the Copy Services domain.

Action

Specify a valid logical subsystem, and then resubmit the task.

CMUN03060E *SOURCE* **Copy Services operation failure: logical subsystem mismatch**

Explanation

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03061E SOURCE Copy Services operation failure: master serial number not defined

Explanation

The storage management console server reports a Copy Services error.

Action

CMUN03062E SOURCE Copy Services operation failure: maximum masters exceeded

Explanation

A start or resume Global Mirror command was received by a subordinate that already has the maximum number (32) of masters.

Action

Contact IBM technical support for assistance.

CMUN03063E SOURCE Copy Services operation failure: sequence number and session ID mismatch

Explanation

The specified sequence numbers do not match the master and subordinate sequence numbers for the session ID.

Action

Specify different sequence numbers or a different session ID, and then resubmit the task.

CMUN03064E SOURCE Copy Services operation failure: mixed adapters specified

Explanation

You must specify either all ESCON paths or all FCP paths. ESCON and FCP paths cannot be mixed within the same command.

Action

Specify paths of the same type, and then resubmit the command.

CMUN03065E SOURCE Copy Services operation failure: volumes not a Remote Mirror and Copy pair

Explanation

The operation references logical volumes that are not a Remote Mirror and Copy pair.

Action

Specify a valid Remote Mirror and Copy pair, and then resubmit the task.

CMUN03066E SOURCE Copy Services operation failure: no volume zero on secondary logical subsystem

Explanation

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03067E SOURCE Copy Services operation failure: configuration does not exist

Explanation

The specified configuration does not exist or the specified logical subsystem is incorrect

Action

Ensure that the correct pair and the correct logical subsystem are specified, and then resubmit the task.

CMUN03068E SOURCE Copy Services operation failure: not ready for resync

Explanation

Both the source and target volumes must be suspended before they can be resynchronized.

Action

Suspend the volumes, and then resubmit the task.

CMUN03069E SOURCE Pair capacity mismatch

Explanation

The capacity of a target volume must be greater than or equal to the size of the source volume. The target volume is too small.

Action

Specify a target volume that is larger than or equal to the size of the source volume, and then resubmit the task.

CMUN03070E SOURCE Copy Services operation failure: pairs remain Explanation

The path cannot be removed because Remote Mirror and Copy pairs are currently using the path.

Remove the Remote Mirror and Copy pairs, and then resubmit the task.

CMUN03071E SOURCE Copy Services operation failure: invalid parameter

Explanation

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03072E SOURCE Copy Services operation failure: invalid track Explanation

The storage management console server reports a Copy Services error. A defective track has been accessed.

Action

Contact IBM technical support for assistance.

CMUN03073E SOURCE Copy Services operation failure: path establish failed

Explanation

The storage management console server reports a Copy Services error. The path establish task failed. The path is in an unknown state.

Action

Contact IBM technical support for assistance.

CMUN03074E SOURCE Copy Services operation failure: maximum number of device adapter paths exceeded

Explanation

The attempt to establish the path fails because there can be no more than 4 paths from a single local adapter and no more than 8 paths to any attached adapter.

Action

Specify volumes on another device adapter, or remove other existing paths that use volumes on the adapter. Resubmit the task.

CMUN03075E SOURCE Copy Services operation failure: path timeout **Explanation**

The storage management console server reports a Copy Services error. Communication to the secondary timed out.

Action

Contact IBM technical support for assistance.

CMUN03076E SOURCE Operation failure: path type mismatch **Explanation**

ESCON and FCP paths cannot be established over the same hardware. A path of the other type already exists.

Action

Contact IBM technical support for assistance.

CMUN03077E SOURCE Copy Services operation failure: pinned data **Explanation**

A Remote Mirror and Copy establish pair action is being issued against a logical volume that is suspended with pinned data. A relationship cannot be established using a suspended logical volume that has pinned data.

Action

Consider carefully before you discard pinned data. You might want to specify a different logical volume. Place both logical volumes in the simplex state, and then resubmit the task.

CMUN03078E SOURCE Copy Services operation failure: pinned data **Explanation**

A Remote Mirror and Copy or FlashCopy pair action is being issued against a logical volume that has pinned data. A relationship cannot be established using a logical volume with pinned data.

Action

Consider carefully before you discard pinned data. You might want to specify a different logical volume. Place both logical volumes in the simplex state, and then resubmit the task.

CMUN03079E SOURCE Copy Services operation failure: copy pending **Explanation**

The attempt to suspend a volume fails because the pair is still copy pending. The volume cannot be suspended because data changes are not consistent between the source and target volumes.

Action

Contact IBM technical support for assistance.

CMUN03080E SOURCE Copy Services: recovery command rejected **Explanation**

The command to establish a relationship pair in failover or failback mode is being rejected because the pair is already in the requested state.

Action

None.

CMUN03081E SOURCE Copy Services operation failure: secondary command invalid

Explanation

The storage management console server reports a Copy Services error. A command that is not allowed on a secondary device is being issued to the secondary device.

Action

Contact IBM technical support for assistance.

CMUN03082E SOURCE Copy Services operation failure: Global Mirror invalid transition

Explanation

The storage management console server reports a Copy Services error. An invalid transition between modes is being attempted. A transition from Global Mirror to any mode other than synchronous mode is not allowed.

Action

CMUN03083E SOURCE Copy Services operation failure: preexisting Remote Mirror and Copy pair

Explanation

The storage management console server reports a Copy Services error. The action conflicts with an existing Remote Mirror and Copy pair that is established on the logical volumes.

Action

Contact IBM technical support for assistance.

CMUN03084E SOURCE Copy Services operation failure: busy **Explanation**

The storage management console server reports a Copy Services error. Copy Services is too busy to accept commands.

Action

Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN03085E SOURCE Copy Services operation failure: maximum number of FlashCopy relationships exceeded

Explanation

The maximum number of FlashCopy relationships has been established already.

Action

Remove unnecessary relationships, and then resubmit the command.

CMUN03086E SOURCE Copy Services operation failure: volume already in FlashCopy relationship

Explanation

One or both of the volumes specified in the FlashCopy pair is already in a FlashCopy relationship. Volumes can participate in only one FlashCopy relationship at a time.

Action

Specify a different volume, and then resubmit the task.

CMUN03087E SOURCE Copy Services operation failure: reverse bitmap non-zero

Explanation

The storage management console server reports a Copy Services error. The target volume bitmap is not all zeros.

Action

Contact IBM technical support for assistance.

CMUN03088E SOURCE Copy Services operation failure: secondary error **Explanation**

The storage management console server reports a Copy Services error. An error on the secondary is causing the command to fail. The secondary controller cache might not be enabled or nonvolatile storage might not be available.

Action

Contact IBM technical support for assistance.

CMUN03089E SOURCE Copy Services operation failure: session already open

Explanation

The specified session is already open for the logical subsystem or the maximum number of sessions allowed has been reached.

Action

Contact IBM technical support for assistance.

CMUN03090E SOURCE Copy Services operation failure: session command not defined

Explanation

The storage management console server reports a Copy Services error. The submitted session command was not properly defined.

Action

CMUN03091E SOURCE Copy Services operation failure: session members not defined

Explanation

The storage management console server reports a Copy Services error. The submitted session members are not defined.

Action

Specify valid logical volumes for the session members, and then resubmit the task.

CMUN03092E SOURCE Copy Services operation failure: session not open

Explanation

The session that is specified for member management is not open.

Action

Open the session, and then resubmit the task.

CMUN03093E SOURCE Copy Services operation failure: invalid session number

Explanation

The specified session number is invalid. A session number is an integer between 1 and 255 inclusive.

Action

Specify a valid session number, and then resubmit the task.

CMUN03094E SOURCE Operation failure: status cannot be determined. **Explanation**

Status cannot be determined for one of the following reasons:

- Unable to locate the global subsystem status tracks
- Unable to establish the status of a Remote Mirror and Copy pair or a DASD fast write volume
- Unable to access the RAID rank that the data is stored on
- · Unable to access a directory for a subsystem
- · Unable to synchronize the volume with data in the nonvolatile store

Action

CMUN03095E SOURCE Copy Services operation failure: subordinate count out of range

Explanation

The storage management console server reports a Copy Services error. The specified subordinate count is out of range. The subordinate count must be between 0 and 16 inclusive.

Action

Contact IBM technical support for assistance.

CMUN03096E SOURCE Copy Services operation failure: target online **Explanation**

The target volume is online to a host.

Action

Take the target volume offline, and then resubmit the task.

CMUN03097E SOURCE Copy Services operation failure: target reserved **Explanation**

The target is reserved.

Action

Contact IBM technical support for assistance.

CMUN03098E SOURCE Copy Services operation failure: topology missing paths

Explanation

Paths do not exist for specified topology.

Action

Contact IBM technical support for assistance.

CMUN03099E SOURCE Copy Services operation failure: VM minidisk **Explanation**

The storage management console server reports a Copy Services error. FlashCopy failed because the volumes are managed by VM minidisk.

Action

CMUN03100E SOURCE Copy Services operation failure: volume in session

Explanation

The specified volume is already associated with a session.

Action

Specify a different volume, and then resubmit the task.

CMUN03101E SOURCE Copy Services operation failure: volume in use **Explanation**

The storage management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03102E SOURCE Copy Services operation failure: volume inaccessible

Explanation

FlashCopy failed because the volumes are in the **inaccessible** or **offline** state.

Action

Make the volumes accessible, and then resubmit the command.

CMUN03103E SOURCE Copy Services operation failure: volume long busy

Explanation

One of the volumes is in the long busy state. This might be because the volume is already participating in a Global Mirror relationship.

Action

Specify a volume that is available, and then resubmit the task.

CMUN03104E SOURCE Copy Services operation failure: source and target volume mismatch

Explanation

The capacity of the source volume must be less than or equal to the capacity of the target volume, and the volumes must be the same type.

Specify compatible volumes, and then resubmit the task.

CMUN03105E SOURCE Copy Services operation failure: volume not restorable

Explanation

The volume is not in a persistent FlashCopy relationship with a completed background copy.

Action

Contact IBM technical support for assistance.

CMUN03106E SOURCE Copy Services operation failure: volume reserved **Explanation**

The storage management console server reports a Copy Services error. The volume is already reserved.

Action

Contact IBM technical support for assistance.

CMUN03107E SOURCE Copy Services operation failure: volumes in session

Explanation

The session cannot be closed because volumes still exist in the session.

Action

Remove the session members, and then resubmit the task.

CMUN03108E SOURCE Copy Services operation failure: volumes not found

Explanation

The storage management console server reports a Copy Services error. The volumes cannot be found in the Copy Services domain.

Action

Specify known volumes, and then resubmit the task.

CMUN03109E SOURCE Copy Services operation failure: volumes not simplex

Explanation

Both the source and target volumes must be in the simplex state before you can establish a relationship pair.

Action

Place both the source and target volumes in the simplex state, and then resubmit the task.

CMUN03110E SOURCE Copy Services operation failure: warm start occurred

Explanation

A warm start occurred on the storage image while this action was running. The action might or might not have completed.

Action

Contact IBM technical support for assistance.

CMUN03111E SOURCE Copy Services operation failure: writes prohibited by suspend

Explanation

Writes are prohibited. The volume is suspended.

Action

Remove the volume from the **suspended** state, and then resubmit the task.

CMUN03112E SOURCE Copy Services operation failure: Global Mirror consistency cannot be maintained.

Explanation

The storage management console server reports a Copy Services error. Consistency cannot be maintained. A paused increment activity has timed out, or another problem has caused the volume to be in an incorrect state.

Action

CMUN03113E SOURCE Operation failure: CKD base required

Explanation

A count-key-data base device is required for this operation. A count-key-data alias is specified.

Action

Specify a CKD base device, and then resubmit the task.

CMUN03114E SOURCE Unable to establish FlashCopy with fast reverse restore: previous FRR

Explanation

A FlashCopy with fast reverse restore (FRR) cannot be established if a FlashCopy with FRR is still in progress or if one has recently completed.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN03115E SOURCE Performance statistics cannot be accumulated: LSS not configured

Explanation

A logical subsystem must be configured before performance statistics can be requested. No logical subsystem is configured.

Action

Configure the logical subsystem, and then resubmit the task.

CMUN03116E SOURCE Performance statistics cannot be accumulated: resource not configured

Explanation

The rank, extent pool, or I/O port to be queried for performance statistics is not configured.

Action

Configure the resource, and then resubmit the task.

CMUN03117E SOURCE Unable to establish FlashCopy or Remote Mirror and Copy pair. A FlashCopy initialization is in progress.

Explanation

The pair cannot be established until intialization completes.

Wait until initialization completes, and then resubmit the task.

CMUN03118E SOURCE Copy Services error: Intervention is required. Explanation

One of the following conditions exists:

- · The addressed device is in CE mode.
- · The addressed device is not ready.
- · The volume configuration of the addressed device is incorrect.

Action

Ensure that the volume is ready, that it is not flagged to be serviced, and that it is correctly configured. If the problem persists, contact IBM technical support for assistance.

CMUN03119E SOURCE Hardware error: An unusual hardware condition originates in the channel, drive, or storage unit.

Explanation

The storage management console server reports a hardware error.

Action

Contact IBM technical support for assistance.

CMUN04000E SOURCE Operation failure: Copy Services server failure Explanation

The storage management console server reports an internal error. The Copy Services server is failing.

Action

Contact IBM technical support for assistance.

CMUN04001E SOURCE Operation failure

Explanation

The storage management console server reports an internal error.

Action

CMUN04002E SOURCE Operation failure: internal error Explanation

The storage management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN04003E SOURCE Operation failure: internal error Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04004E SOURCE Operation failure: invalid parameters Explanation

The storage management console server reports an internal error.

Action

Check the format, type, and number of parameters, and then resubmit the task. If the problem persists, contact IBM technical support for assistance

CMUN04005E SOURCE Operation failure: node agent 0 fails Explanation

The storage management console server reports a storage unit microcode-level error. An agent is not running on a processor card.

Action

Contact IBM technical support for assistance.

CMUN04006E SOURCE Operation failure: node agent 1 fails Explanation

The storage management console server reports a storage unit microcode-level error. An agent is not running on a processor card.

Action

CMUN04007E SOURCE Operation failure: resource not found **Explanation**

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04008E SOURCE Operation failure

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04009E SOURCE Operation failure: unknown

Explanation

The storage management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN05000E SOURCE Operation failure: alternate busy

Explanation

The storage management console server reports a storage unit microcode-level error. The alternate repository is being updated and is not available.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN05001E SOURCE Operation failure: duplicate user name in alternate repository

Explanation

The storage management console server reports an internal security error.

Action

CMUN05002E SOURCE Operation failure: duplicate user name in local repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05003E SOURCE Operation failure: alternate communication failure

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05004E SOURCE Operation failure: group not found in alternate repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05005E SOURCE Operation failure: group not found in local repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05006E SOURCE Operation failure: invalid user account name Explanation

A user account name must be supplied.

Action

Specify a valid user account name, and then resubmit the task.

CMUN05007E SOURCE Operation failure: local busy

Explanation

The storage management console server reports a storage unit microcode-level error. The local repository is being updated and is not available.

Action

Wait, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN05008E SOURCE Operation failure

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05009E SOURCE Operation failure: maximum number of accounts reached on alternate repository

Explanation

The number of user accounts on the alternate repository is at the maximum allowed. No more accounts can be created.

Action

Increase the limit or remove unused accounts, and then resubmit the task.

CMUN05010E SOURCE Operation failure: maximum number of accounts reached on local repository

Explanation

The number of user accounts on the local repository is at the maximum allowed. No more accounts can be created.

Action

Increase the limit or remove unused accounts, and then resubmit the task.

CMUN05012E SOURCE Operation failure: incorrect password format **Explanation**

The password that you specified does not meet password format requirements. Passwords must contain at least 5 alphabetic characters, and at least one numeric character, with an alphabetic character in the first and last positions. Passwords are limited to a total of 16 characters. The user name can not be part of the password.

The minimum number of unique new passwords that must be used before an old password can be reused is four.

Action

Specify a valid password, and then resubmit the task.

CMUN05013E SOURCE Operation failure: password same as previous password

Explanation

A user account password cannot be used again.

Action

Specify a password that has not been used previously, and then resubmit the task.

CMUN05014E SOURCE Operation failure: alternate repository not accessible

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05015E SOURCE Operation failure: local repository not accessible

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05016E SOURCE Operation failure: request timed out Explanation

The storage management console server reports an internal security error. A security request is timing out. The alternate repository might not be responding.

Action

CMUN05017E SOURCE Operation failure: internal error in alternate repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05018E SOURCE Operation failure: internal error in local repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05019E SOURCE Operation failure: settings entry not found in alternate repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05020E SOURCE Operation failure: settings entry not found in local repository

Explanation

The storage management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05021E SOURCE Operation failure: user not found in alternate repository

Explanation

The specified user name cannot be found in the alternate repository.

Specify a valid user name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN05022E SOURCE Operation failure: user not found in local repository

Explanation

The specified user name cannot be found in the local repository.

Action

Specify a valid user name, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN06000E SOURCE Operation failure: unable to connect Explanation

The storage management console server reports an internal service advisor error. A code load fails, possibly because of a communication failure.

Action

Check for cabling and hardware problems, and follow the recommended service procedure. If the problem persists, contact IBM technical support for assistance.

CMUN06001E SOURCE Operation failure: unable to copy code Explanation

The service advisor is unable to copy the code bundle to the storage unit.

Action

This problem might be temporary. Ensure that there is network connectivity to the storage unit. Verify that you can log in to the storage unit and that no other administrators are attempting to copy code or activate a code load. If the problem persists, contact IBM technical support for assistance.

CMUN06002E SOURCE Operation failure: unable to copy log files Explanation

The storage management console server reports an internal service advisor error.

Action

CMUN06003E SOURCE Operation failure: unable to copy PE package Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06004E SOURCE Operation failure: unable to copy SA logs to the PE package

Explanation

The storage management console server reports an internal service advisor error.

Action

Submit the command from the storage management console with administrator authority. If the problem persists, then re-install the storage management console server software. If the problem still persists, contact IBM technical support for assistance.

CMUN06005E SOURCE Operation failure: unable to copy state save Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06006E SOURCE Operation failure: unable to create PE package Explanation

The storage management console server reports an internal service advisor error. The storage unit might not have sufficient disk space available.

Action

Contact IBM technical support for assistance.

CMUN06007E SOURCE Operation failure: results list is empty Explanation

The storage management console server reports an internal service advisor error.

Action

CMUN06008E SOURCE Operation failure: console server exception returned to SA

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06009E SOURCE Operation failure: unable to retrieve list of field-replacable units

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06010E SOURCE Operation failure: unable to retrieve list of network ports

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06011E SOURCE Operation failure: unable to retrieve password Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06012E SOURCE Operation failure: unable to retrieve list of storage servers

Explanation

The storage management console server reports an internal service advisor error.

Action

CMUN06013E SOURCE Operation failure: unable to retrieve software version

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06014E SOURCE Operation failure: unable to retrieve trace service

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06015E SOURCE Operation failure: unable to extract Jar file for package bundle

Explanation

The storage management console server reports an internal service advisor error. The code load bundle that was downloaded to the storage management console is corrupted.

Action

Download a new copy of the code bundle and try again. If the problem persists, contact IBM technical support for assistance.

CMUN06016E SOURCE Operation failure: file or directory not found Explanation

The storage management console server reports an internal service advisor error.

Action

Ensure that the destination and source directories on the storage management console are valid. If the problem persists, contact IBM technical support for assistance.

CMUN06017E SOURCE Operation failure: FTP failure Explanation

The storage management console server reports an internal service advisor error. Problem determination data cannot be sent to IBM using file transfer protocol.

- 1. Ensure that all the files in directory %MR1750_SM_HOME%\send2IBM are valid and can be transferred by FTP.
- 2. Ensure that network connectivity and firewall access is available.
- 3. Attempt to resend the data again.
- 4. If the problem persists, contact IBM technical support for assistance.

CMUN06018E SOURCE Unable to activate code load: incompatible hardware and code versions

Explanation

Code load cannot be activated on the storage unit. The hardware on the storage unit is not compatible with the code bundle that you are attempting to load.

Action

Ensure that the engineering change level of the storage unit and the code bundle version level are compatible, and then try again. If the hardware and code versions should be compatible, contact IBM technical support for assistance.

CMUN06019E SOURCE Unable to activate code load: incompatible software version in package bundle

Explanation

Code load cannot be activated on the storage unit. The bundle version and the current storage unit software version are incompatible for concurrent code load.

Action

Either perform a non concurrent code load or choose a bundle level that is compatible with the microcode version that is currently running on the storage unit. If you still cannot activate the code load, contact IBM technical support for assistance.

CMUN06020E SOURCE Operation failure: invalid code bundle **Explanation**

The storage management console server reports an internal service advisor error. The code bundle that was copied to the storage management console is not valid.

Action

Download a new copy of the code bundle and try again. If the problem persists, contact IBM technical support for assistance.

CMUN06021E SOURCE Operation failure: invalid file or directory **Explanation**

The storage management console server reports an internal service advisor error.

· Environment variables might not be set properly.

This command can be run from the storage management console only.

Action

- Submit the command from the storage management console with administrator authority.
- 2. If the problem persists, then re-install the storage management console server software.
- 3. If the problem still persists, contact IBM technical support for assistance.

CMUN06022E SOURCE Operation failure: unable to load code bundle **Explanation**

The storage management console server reports an internal service advisor error. The storage management console server software installation might have failed or the code bundle might be invalid.

Action

- 1. Download a new copy of the code bundle and try again.
- 2. If the problem persists, then re-install the storage management console server software.
- 3. If the problem persists, contact IBM technical support for assistance.

CMUN06023E SOURCE Operation failure: unable to mark state save **Explanation**

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06024E SOURCE Operation failure: possible invalid code bundle **Explanation**

The storage management console server reports an internal service advisor error. The code bundle might not be valid.

Action

Download a new copy of the code bundle and try again. If the problem persists, contact IBM technical support for assistance.

CMUN06025E SOURCE Operation failure: unable to open file **Explanation**

The storage management console server reports an internal service advisor error.

Action

CMUN06026E SOURCE Operation failure: an external utility does not run

Explanation

The utility might not run for one of the following reasons:

- The utility invoked by the service advisor does not exist or the utility has been moved.
- You are not invoking the utility from the storage management console.
- The storage management console server software installation failed.

Action

- 1. Ensure that the PUTTY command is installed properly and its location is specified in the PATH environment variable.
- 2. Ensure that %MR1750_SM_HOME%\bin is specified in the PATH environment variable.
- 3. Run the command from the storage management console with administrator authority.
- 4. If the problem persists, then re-install the storage management console server software.
- 5. If the problem still persists, contact IBM technical support for assistance.

CMUN06027E SOURCE Operation failure: thread interupted **Explanation**

The storage management console server reports an internal service advisor error. The program is interrupted for an unknown reason.

Action

Contact IBM technical support for assistance.

CMUN06028E SOURCE Operation failure: timeout

Explanation

The storage management console server reports an internal service advisor error. The program times out before it completes.

Action

This might be a temporary problem. Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN06029E SOURCE Operation failure: unknown operating system **Explanation**

The storage management console server reports an internal service advisor error. An unknown operating system is detected.

Install the storage management console server on a supported operating system. If the problem persists, contact IBM technical support for assistance.

CMUN06030E SOURCE Operation failure: environment variable not found

Explanation

The service advisor relies on environment variables that are initialized when the storage management console server software is installed. The storage management console server software installation might have failed.

Action

Submit the command from the storage management console. If the problem persists, then re-install the storage management console server software. If the problem still persists, contact IBM technical support for assistance.

CMUN06031E SOURCE Operation failure: unable to compress all files to zip file

Explanation

The storage management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN80000E Storage management console server unavailable **Explanation**

The storage management console server cannot be reached over the TCP/IP network. The server might not be enabled, a network problem might exist, or the server might be refusing connections because too many clients are connected.

Action

Ensure the network is functioning properly and the server is enabled. If too many clients are connected, wait until the server has fewer clients. Resubmit the task.

CMUN80001E An error occurs while communicating with the storage management console server.

Explanation

This message is displayed only if a specific storage management console server error is not available. The problem might be temporary, due to heavy network traffic, or it might be a more serious condition.

Check network traffic to determine if unusual workloads exist. Check for network adapter hardware errors, configuration changes, or address changes. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80002E The client code is not at the same version level as the storage management console server code.

Explanation

The client and storage management console server code are at different version levels. This can cause miscommunication between the client and server.

Action

Ensure that both client and server code are at the same version level.

CMUN80003E Information for this resource cannot be retrieved. Explanation

The query for information for this resource cannot run. No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. If the problem persists, contact IBM technical support.

CMUN80004E The resource cannot be created.

Explanation

You attempting to create a resource, but an error occurs and the creation cannot be committed. No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80005E An error occurs while committing configuration changes. Explanation

You are attempting to configure a resource, but an error occurs and the configuration cannot be committed. No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80006E The information for this resource cannot be retrieved. **Explanation**

The query for information on extent usage for the resource cannot run. No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80007E Information for this resource cannot be retrieved. **Explanation**

No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80008E Unknown error

Explanation

While querying for data or committing changes, an error of unknown origin occurs. No specific information about the cause of the failure is available.

Action

Ensure that the correct version of software has been installed. Resubmit the task. If the problem persists, contact IBM technical support.

CMUN80009E The attributes specified for the resource are not valid.

Explanation

You are attempting to create or modify a resource and the system detects one or more attributes that are not valid for that resource.

Action

Ensure that the resource attributes are valid, and then resubmit the task.

CMUN80010E You are not authorized to perform this action through the storage management console.

Explanation

You are attempting to perform an action for which you have no authorization.

Contact your system administrator to change your authorization level. Resubmit the task.

CMUN80011E The connection cannot be made because authentication information is invalid.

Explanation

The authentication information is invalid.

Action

Ensure that correct authentication information is entered. Resubmit the task.

CMUN80012E The IP address of the host cannot be determined. **Explanation**

The IP address cannot be determined for the host name that you entered.

Action

Provide the correct host name and IP address, and then resubmit the task.

CMUN80013E Task execution failure: timeout

Explanation

The storage management console server reports a timeout error because the storage management console server or the storage image cannot complete the submitted task within the expected time period.

Action

Wait until the server or storage unit is less busy. Resubmit the task.

Note: If your task involved storage unit configuration changes, first check to see if the task was partially completed before the failure occurred.

CMUN80014E Invalid parameter

Explanation

The storage management console server reports one or more invalid parameters in the specification.

Action

Ensure that the format and data type of the specified parameters are correct. Resubmit the task.

CMUN80015E Resource not found

Explanation

The storage management console server cannot find the specified resource.

Action

Ensure that the resource is configured on the storage complex and is specified correctly in the task. Resubmit the task.

CMUN80016E The storage management console server reports an internal error.

Explanation

The storage management console server reports an internal error.

Action

Ensure that the correct version of the server software has been installed. Resubmit the task. If the problem persists, call technical support.

CMUN80017E SOURCE Copy Services communications error Explanation

While communicating with the Copy Services server, the storage management console server reported an error

Action

This might be a temporary problem due to unusually high network traffic. Resubmit the task. If the problem persists, call technical support.

CMUN80018E SOURCE Authentication failure: Your account is locked. Explanation

The storage management console server reports an authentication failure. Your account is locked. Access will be denied until the account is unlocked by an administrative user.

Action

Ask your system administrator to unlock your account using the user administration panels. If you are the system administrator, you must use the security recovery utility.

CMUN80019E SOURCE Authentication failure: The security database is not accessible.

Explanation

The storage management console server reports an authentication failure. The security database is not accessible.

Action

Contact IBM technical support for assistance.

CMUN80020E SOURCE Authentication failure: invalid password Explanation

The storage management console server reports an authentication failure. The specified password is invalid.

Action

Specify a valid password, and then resubmit the task.

CMUN80021E SOURCE Authentication failure: Unable to connect to type 2105 machine.

Explanation

The storage management console server reports an authentication failure that occurs while you are trying to connect to a machine type 2105 Enterprise Storage Server. Your user name and password might not be correctly defined on the 2105, or the user name and password that you supplied might be incorrect.

Action

Ensure that the user name and password that you specify are correctly defined on the type 2105 system, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80022E SOURCE Authentication failure: Your password has expired.

Explanation

The storage management console server reports an authentication failure. Your password has expired. You must change your password now.

Action

Enter your expired password, and then change your password to a new password.

CMUN80023E SOURCE Authentication failure: Nonexistent account.

Explanation

The storage management console server reports an authentication failure. The specified user account does not exist.

Action

Ask your system administrator to create this account and ensure that it is registered in the security database, or log in using a different user name.

CMUN80024E SOURCE Authorization failure: You are not authorized to run this task.

Explanation

The storage management console server reports an authentication failure. You are not authorized to run the task.

Action

Ask your system administrator to grant you the necessary permissions to run the task, and then resubmit the task.

CMUN80025E SOURCE Rank creation denied. This rank would exceed the installed LMC feature key enablement. Delete all references to this rank.

Explanation

The installed license machine code does not permit the creation of additional ranks. Your request to create a rank is denied. A reference to this uncreated rank is visible to make the request and denial history available. This reference can be deleted.

Action

Delete the rank reference. Obtain a license for additional ranks, and then resubmit the task.

Accessibility

Accessibility features provide users who have disabilities with the ability to successfully access information and use technology.

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully.

Features

These are the major accessibility features in the IBM TotalStorage DS6000 information:

- You can use screen-reader software and a digital speech synthesizer to hear what is displayed on the screen. IBM Home Page Reader version 3.0 has been tested.
- · You can operate features using the keyboard instead of the mouse.

Navigating by keyboard

You can use keys or key combinations to perform operations and initiate menu actions that can also be done through mouse actions. You can navigate the IBM TotalStorage DS6000 information from the keyboard by using the shortcut keys for your browser or Home Page Reader. See your browser Help for a list of shortcut keys that it supports. See the following Web site for a list of shortcut keys supported by Home Page Reader: http://www-306.ibm.com/able/solution_offerings/keyshort.html

Accessing the publications

You can find HTML versions of the IBM TotalStorage DS6000 information at the following Web site:

http://www.ehone.ibm.com/public/applications/publications/cgibin/pbi.cgi

You can access the information using IBM Home Page Reader 3.0.

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Zulassungsbescheinigung laut Gesetz ueber die elektromagnetische Vertraeglichkeit von Geraeten (EMVG) vom 30. August 1995.

Dieses Geraet ist berechtigt, in Uebereinstimmung mit dem deutschen EMVG das EG-Konformitaetszeichen - CE - zu fuehren.

Der Aussteller der Konformitaetserklaeung ist die IBM Deutschland.

Informationen in Hinsicht EMVG Paragraph 3 Abs. (2) 2:

Das Geraet erfuellt die Schutzanforderungen nach EN 50082-1 und EN 55022 Klasse A.

EN 55022 Klasse A Geraete beduerfen folgender Hinweise:

Nach dem EMVG:

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betrieben werden. Die Genehmigung wird erteilt, wenn keine elektromagnetischen Stoerungen zu erwarten sind." (Auszug aus dem EMVG, Paragraph 3, Abs.4)

Dieses Genehmigungsverfahren ist nach Paragraph 9 EMVG in Verbindung mit der entsprechenden Kostenverordnung (Amtsblatt 14/93) kostenpflichtig.

Nach der EN 55022:

"Dies ist eine Einrichtung der Klasse A. Diese Einrichtung kann im Wohnbereich Funkstoerungen verursachen; in diesem Fall kann vom Betreiber verlangt werden, angemessene Massnahmen durchzufuehren und dafuer aufzukommen."

Anmerkung:

Um die Einhaltung des EMVG sicherzustellen, sind die Geraete wie in den Handbuechern angegeben zu installieren und zu betreiben.

Japanese Voluntary Control Council for Interference (VCCI) class A statement

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Glossary

This glossary includes terms for the IBM TotalStorage and other Resiliency Family products.

This glossary includes selected terms and definitions from:

- The American National Standard Dictionary for Information Systems, ANSI X3.172–1990, copyright 1990 by the American National Standards Institute (ANSI), 11 West 42nd Street, New York, New York 10036. Definitions derived from this book have the symbol (A) after the definition.
- IBM Terminology, which is available online at the following Web site: http://www-306.ibm.com/ibm/terminology/index.html.
 Definitions derived from this source have the symbol (GC) after the definition.
- The Information Technology Vocabulary
 developed by Subcommittee 1, Joint Technical
 Committee 1, of the International Organization
 for Standardization and the International
 Electrotechnical Commission (ISO/IEC
 JTC1/SC1). Definitions derived from this book
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 standards, committee drafts, and working
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 developing have the symbol (T) after the
 definition, indicating that final agreement has
 not been reached among the participating
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This glossary uses the following cross-reference forms:

See Refers the reader to one of two kinds of related information:

- A term that is the expanded form of an abbreviation or acronym. This expanded form of the term contains the full definition.
- · A synonym or more preferred term

See also

Refers the reader to one or more related terms

Contrast with

Refers the reader to a term that has an opposite or substantively different meaning.

Numerics

- 750 A model of the Enterprise Storage Server featuring a 2-way processor with limited physical storage capacity. This model can be updated to the model 800.
- 800 A model of the Enterprise Storage Server featuring a standard processor or an optional Turbo processor. The Model 800 supports RAID 5, RAID 10, and 15000 rpm drives. Model 800 supersedes Model F20.
- The machine type for the IBM
 TotalStorage DS6000 series. Models for the DS6000 include the 511 and EX1.
- 2105 The machine number for the IBM TotalStorage Enterprise Storage Server. Models of the Enterprise Storage Server are expressed as the number 2105 followed by "Model <xxx>", such as 2105 Model 800. The 2105 Model 100 is an Enterprise Storage Server expansion enclosure that is typically referred to simply as the Model 100.
- 2107 The machine type for the IBM
 TotalStorage DS8000 series. Models for
 the DS8000 series include the base units
 921, 922 and 9A2 and expansion units
 92E and 9AE.
- 3390 The machine number of an IBM disk storage system. The Enterprise Storage Server, when interfaced to IBM zSeries hosts, is set up to appear as one or more 3390 devices, with a choice of 3390-2, 3390-3, or 3390-9 track formats.
- 3990 The machine number of an IBM control unit.
- 7133 The machine number of an IBM disk storage system. The Model D40 and 020 drawers of the 7133 can be installed in the 2105-100 expansion enclosure of the ESS.

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Α

access

- 1) To obtain the use of a computer resource.
- 2) In computer security, a specific type of interaction between a subject and an object that results in flow of information from one to the other.

access-any mode

One of the two access modes that can be set for the storage unit during initial configuration. It enables all fibre-channel-attached host systems with no defined access profile to access all logical volumes on the storage unit. With a profile defined in DS Storage Manager for a particular host, that host has access only to volumes that are assigned to the WWPN for that host. See also pseudo host and worldwide port name.

- ACK See request for acknowledgment and acknowledgment.
- agent A program that automatically performs some service without user intervention or on a regular schedule. See also subagent.
- alert A message or log that a storage unit generates as the result of error event collection and analysis. An alert indicates that a service action is required.

allegiance

For zSeries, a relationship that is created between a device and one or more channel paths during the processing of certain conditions. See also implicit allegiance, contingent allegiance, and reserved allegiance.

allocated storage

The space that is allocated to volumes but not yet assigned. Contrast with assigned storage.

American National Standards Institute (ANSI)

An organization of producers, consumers, and general interest groups that establishes the procedures by which accredited organizations create and maintain voluntary industry standards in the United States. (A)

Anonymous

In the DS Storage Manager, the label on an icon that represents all connections that are using fibre-channel adapters

between the storage unit and hosts but are not completely defined to the storage unit. See also anonymous host, pseudo host, and access-any mode.

anonymous host

Synonym for *pseudo host*. Contrast with Anonymous and pseudo host.

- ANSI See American National Standards Institute.
- **APAR** See authorized program analysis report. (GC)
- API See application programming interface.

application programming interface

An interface that allows an application program that is written in a high-level language to use specific data or functions of the operating system or another program.

arbitrated loop

A fibre-channel topology that enables the interconnection of a set of nodes. See also point-to-point connection and switched fabric.

- An ordered collection, or group, of array physical devices (disk drive modules) that is used to define logical volumes or devices. In the storage unit, an array is a group of disks that the user designates to be managed by the RAID technique. See also redundant array of independent disks.
- **ASCII** (American National Standard Code for Information Interchange) The standard code, using a coded character set consisting of 7-bit coded characters (8 bits including parity check), that is used for information interchange among data processing systems, data communication systems, and associated equipment. The ASCII set consists of control characters and graphic characters. (A) Some organizations, including IBM, have used the parity bit to expand the basic code set.

assigned storage

The space that is allocated to a volume and that is assigned to a port.

authorized program analysis report (APAR)

A request for correction of a defect in a current release of an IBM-supplied program. (GC)

availability

The degree to which a system or resource is capable of performing its normal function. See *data availability*.

В

bay The physical space that is used for installing SCSI, ESCON, and fibre-channel host adapter cards. The DS6000 has four bays, two in each cluster. See also *service boundary*.

bit 1) Either of the digits 0 or 1 when used in the binary numeration system. (T)

2) The storage medium required to store a single binary digit. See also *byte*.

 block A string of data elements recorded or transmitted as a unit. The elements may be characters, words, or physical records.
 (T)

A group of consecutive bytes used as the basic storage unit in fixed-block architecture (FBA). All blocks on the storage device are the same size (fixed size). See also *fixed-block architecture* and *data record*.

byte 1) A group of eight adjacent binary digits that represent one EBCDIC character.

2) The storage medium required to store eight bits. See also *bit*.

C

cache A special-purpose buffer storage, smaller and faster than main storage, used to hold a copy of instructions and data obtained from main storage and likely to be needed next by the processor. (T)

cache fast write

A form of the fast-write operation in which the storage server writes the data directly to cache, where it is available for later destaging.

cache hit

An event that occurs when a read operation is sent to the cluster, and the requested data is found in cache. Contrast with *cache miss*.

cache memory

Memory, typically volatile memory, that a storage server uses to improve access times to instructions or data. The cache memory is typically smaller and faster than the primary memory or storage medium. In addition to residing in cache memory, the same data also resides on the storage devices in the storage unit.

cache miss

An event that occurs when a read operation is sent to the cluster, but the data is not found in cache. Contrast with cache hit.

call home

A communication link established between the DS6000 and a service provider. The DS6000 can use this link to place a call to IBM or to another service provider when it requires service. With access to the machine, service personnel can perform service tasks, such as viewing error logs and problem logs or initiating trace and dump retrievals. See also *heartbeat* and *remote technical assistance information network*.

cascading

1) Connecting network controllers to each other in a succession of levels to concentrate many more lines than a single level permits.

2) In high-availability cluster multiprocessing (HACMP), cascading pertains to a cluster configuration in which the cluster node with the highest priority for a particular resource acquires the resource if the primary node fails. The cluster node relinquishes the resource to the primary node upon reintegration of the primary node into the cluster.

catcher

A server that service personnel use to collect and retain status data that an DS6000 sends to it.

CCR See channel command retry.

CCW See channel command word.

CD See compact disc.

CEC See computer-electronic complex.

channel

For zSeries, the part of a channel subsystem that manages a single I/O interface between a channel subsystem and a set of control units.

channel command retry (CCR)

For zSeries, the protocol used between a channel and a control unit that enables the control unit to request that the channel reissue the current command.

channel command word (CCW)

For zSeries, a data structure that specifies an I/O operation to the channel subsystem.

channel path

For zSeries, the interconnection between a channel and its associated control units.

channel subsystem

For zSeries, the part of a host computer that manages I/O communication between the program and any attached control units.

channel-subsystem image

For zSeries, the logical functions that a system requires to perform the function of a channel subsystem. With ESCON multiple image facility (EMIF), one channel subsystem image exists in the channel subsystem for each logical partition (LPAR). Each image appears to be an independent channel subsystem program, but all images share a common set of hardware facilities.

CKD See count key data.

See command-line interface. See also CLI Copy Services command-line interface.

cluster

1) A partition capable of performing all DS6000 functions. With two clusters in the DS6000, any operational cluster can take over the processing of a failing cluster.

2) In the AIX operating system, a group of nodes within a complex.

cluster processor complex (CPC)

The unit within a cluster that provides the management function for the DS6000. It consists of cluster processors, cluster memory, and related logic.

command-line interface (CLI)

An interface provided by an operating system that defines a set of commands and enables a user (or a script-like language) to issue these commands by typing text in response to the command prompt (for example, DOS commands or UNIX shell commands). See also Copy Services command-line interface.

compact disc

An optically read disc, typically storing approximately 660 MB. CD-ROM (compact disc read-only memory) refers to the read-only format used to distribute DS6000 code and documentation.

compression

- 1) The process of eliminating gaps, empty fields, redundancies, and unnecessary data to shorten the length of records or blocks.
- 2) Any encoding that reduces the number of bits used to represent a given message or record. (GC)

computer-electronic complex (CEC)

The set of hardware facilities associated with a host computer.

concurrent copy

A facility on a storage server that enables a program to make a backup of a data set while the logical volume remains available for subsequent processing. The data in the backup copy is frozen at the point in time that the server responds to the request.

concurrent installation of licensed internal

Process of installing licensed internal code on a DS6000 while applications continue to run.

concurrent maintenance

Service that is performed on a unit while it is operational.

concurrent media maintenance

Service performed on a disk drive module (DDM) without losing access to the data.

configure

In storage, to define the logical and physical configuration of the input/output (I/O) subsystem through the user interface that the storage unit provides for this function.

consistency group

A group of volumes participating in FlashCopy relationships in a logical subsystem, across logical subsystems, or across multiple storage units that must be kept in a consistent state to ensure data integrity.

consistency group interval time

The value in seconds that indicates the length of time between the formation of consistency groups.

consistent copy

A copy of a data entity (a logical volume, for example) that contains the contents of the entire data entity at a single instant in time.

console

A user interface to a server, for example, the interface provided on a personal computer. See also *IBM TotalStorage Management Console*.

contingent allegiance

For zSeries, a relationship that is created in a control unit between a device and a channel when the channel accepts unit-check status. The allegiance causes the control unit to guarantee access; the control unit does not present the busy status to the device. The allegiance enables the channel to retrieve sense data that is associated with the unit-check status on the channel path associated with the allegiance.

control path

The route that is established from the master storage unit to the subordinate storage unit when more than one storage unit participates in a Global Mirror session. If there is only one storage unit (the master) in the Global Mirror session, no control path is required.

control unit (CU)

- 1) A device that coordinates and controls the operation of one or more input/output devices, and synchronizes the operation of such devices with the operation of the system as a whole.
- 2) For zSeries, a storage server with ESCON or OEMI interfaces. The control unit adapts a native device interface to an I/O interface that a zSeries host system supports.
- 3) The portion of the storage unit that supports the attachment of emulated count key data devices over ESCON, FICON, or OEMI interfaces. See also *cluster*.

control-unit image

For zSeries, a logical subsystem that is

accessed through an ESCON I/O interface. One or more control-unit images exist in each control unit. Each image appears as an independent control unit, but all control-unit images share a common set of hardware facilities. The DS6000 can emulate 3990-3, TPF, 3990-6, or 2105 control units.

control-unit-initiated reconfiguration (CUIR)

A software mechanism that the DS6000 uses to request that an operating system of a zSeries host verify that one or more subsystem resources can be taken offline for service. The DS6000 can use this process to automatically vary channel paths offline and online to facilitate bay service or concurrent code installation. Depending on the operating system, support for this process might be model dependent, might depend on the IBM TotalStorage Enterprise Storage Server Subsystem Device Driver, or might not exist.

Coordinated Universal Time (UTC)

The international standard of time that is kept by atomic clocks around the world.

Copy Services

A collection of optional software features, with a Web-browser interface, used for configuring, managing, and monitoring data-copy functions.

Copy Services CLI

See Copy Services command-line interface.

Copy Services client

Software that runs on each DS6000 cluster in the Copy Services server group and that performs the following functions:

- Communicates configuration, status and connectivity information to the Copy Services server
- Performs data-copy functions on behalf of the Copy Services server

Copy Services command-line interface (Copy Services CLI)

The command-line interface software that is provided with DS6000 Copy Services and used for invoking Copy Services functions from host systems attached to the DS6000. See also *command-line interface*.

Copy Services server

A cluster that the Copy Services administrator designates to perform the DS6000 Copy Services functions.

Copy Services server group

A collection of user-designated DS6000 clusters participating in Copy Services functions that a designated, active, Copy Services server manages. A Copy Services server group is also called a Copy Services domain.

count field

The first field of a count key data (CKD) record. This eight-byte field contains a four-byte track address (CCHH). It defines the cylinder and head that are associated with the track, and a one-byte record number (R) that identifies the record on the track. It defines a one-byte key length that specifies the length of the record's key field (0 means no key field). It defines a two-byte data length that specifies the length of the record's data field (0 means no data field). Only the end-of-file record has a data length of zero.

count key data (CKD)

For zSeries, a data-record format employing self-defining record formats in which each record is represented by up to three fields: a count field that identifies the record and specifies its format, an optional key field that identifies the data area contents, and an optional data field that typically contains the user data. For CKD records on the storage unit, the logical volume size is defined in terms of the device emulation mode (3390 or 3380 track format). The count field is always 8 bytes long and contains the lengths of the key and data fields, the key field has a length of 0 to 255 bytes, and the data field has a length of 0 to 65 535 or the maximum that will fit on the track. See also data record.

CPC See cluster processor complex.

CRC See cyclic redundancy check.

CU See control unit.

CUIR See control-unit initiated reconfiguration.

custom volume

A volume in count-key-data (CKD) format that is not a standard volume, which means that it does not necessarily present the same number of cylinders and capacity to its assigned logical control unit as provided by one of the following standard zSeries volume types: 3390-2, 3390-3, 3390-9, 3390-2 (3380-track mode), or 3390-3 (3380-track mode). See also count-key-data, interleave, standard volume, and volume.

CUT See Coordinated Universal Time.

cyclic redundancy check (CRC)

A redundancy check in which the check key is generated by a cyclic algorithm. (T)

cylinder

A unit of storage on a CKD device with a fixed number of tracks.

D

DA See device adapter. See also IBM Serial Storage adapter.

daisy chain

See serial connection.

DASD See direct access storage device.

DASD fast write (DFW)

A function of a storage server in which active write data is stored in nonvolatile cache, thus avoiding exposure to data loss.

data availability

The degree to which data is available when needed, typically measured as a percentage of time that the system would be capable of responding to any data request (for example, 99.999% available).

data compression

A technique or algorithm used to encode data such that the encoded result can be stored in less space than the original data. The original data can be recovered from the encoded result through a reverse technique or reverse algorithm. See also compression.

Data Facility Storage Management Subsystem (DFSMS)

An operating environment that helps automate and centralize the management of storage. To manage storage, DFSMS provides the storage administrator with control over data class, storage class, management class, storage group, and automatic class selection routine definitions.

data field

The optional third field of a count key data (CKD) record. The count field specifies the length of the data field. The data field contains data that the program writes.

data record

The basic unit of zSeries storage on a DS6000, also known as a count-key-data (CKD) record. Data records are stored on a track. The records are sequentially numbered starting with 0. The first record, R0, is typically called the track descriptor record and contains data that the operating system normally uses to manage the track. See also count-key-data and fixed-block architecture.

data set FlashCopy

For zSeries hosts, a feature of FlashCopy that indicates how many partial volume FlashCopy relationships are active on a volume.

data sharing

The ability of multiple host systems to concurrently utilize data that they store on one or more storage devices. The storage unit enables configured storage to be accessible to any, or all, attached host systems. To use this capability, the host program must be designed to support data that it is sharing.

DDM See disk drive module.

DDM group

See disk pack.

dedicated storage

Storage within a storage unit that is configured such that a single host system has exclusive access to the storage.

demote

To remove a logical data unit from cache memory. A storage server demotes a data unit to make room for other logical data units in the cache or because the logical data unit is not valid. The storage unit must destage logical data units with active write units before they can be demoted. See also *destage*.

destage

To move data from an online or higher priority to an offline or lower priority

device. The storage unit stages incoming data into cache and then destages it to disk.

device

For zSeries, a disk drive.

device adapter (DA)

A physical component of the DS6000 that provides communication between the clusters and the storage devices. The DS6000 has eight device adapters that it deploys in pairs, one from each cluster. Device adapter pairing enables the DS6000 to access any disk drive from either of two paths, providing fault tolerance and enhanced availability.

device address

For zSeries, the field of an ESCON device-level frame that selects a specific device on a control-unit image.

device ID

The unique two-digit hexadecimal number that identifies the logical device.

device interface card

A physical subunit of a storage cluster that provides the communication with the attached device drive modules.

device number

For zSeries, a four-hexadecimal-character identifier, for example 13A0, that the systems administrator associates with a device to facilitate communication between the program and the host operator. The device number is associated with a subchannel.

device sparing

A subsystem function that automatically copies data from a failing device drive module to a spare device drive module. The subsystem maintains data access during the process.

DFS See distributed file service.

DFSMS

See Data Facility Storage Management Subsystem.

direct access storage device (DASD)

- 1) A mass storage medium on which a computer stores data.
- 2) A disk device.

disk cage

A container for disk drives. Each disk cage supports eight disk packs (64 disks).

disk drive

Standard term for a disk-based nonvolatile storage medium. The DS6000 uses hard disk drives as the primary nonvolatile storage media to store host data.

disk drive module (DDM)

A field replaceable unit that consists of a single disk drive and its associated packaging.

disk drive module group

See disk pack.

disk pack

A group of disk drive modules (DDMs) installed as a unit in a DDM bay.

disk group

A collection of 4 disk drives that are connected to the same pair of IBM Serial Storage adapters and can be used to create a RAID array. A disk group can be formatted as count key data or fixed block, and as RAID or non-RAID, or it can be left unformatted. A disk group is a logical assemblage of disk drives. Contrast with disk pack.

distributed file service (DFS)

A service that provides data access over IP networks.

DNS See domain name system.

domain

- 1) That part of a computer network in which the data processing resources are under common control.
- 2) In TCP/IP, the naming system used in hierarchical networks.
- 3) A Copy Services server group, in other words, the set of clusters the user designates to be managed by a particular Copy Services server.

domain name system (DNS)

In TCP/IP, the server program that supplies name-to-address translation by mapping domain names to internet addresses. The address of a DNS server. is the internet address of the server that hosts the DNS software for the network.

dotted decimal notation

A convention used to identify IP

addresses. The notation consists of four 8-bit numbers written in base 10. For example, 9.113.76.250 is an IP address that contains the octets 9, 113, 76, and 250.

drawer

A unit that contains multiple device drive modules and provides power, cooling, and related interconnection logic to make the device drive modules accessible to attached host systems.

drive 1) A peripheral device, especially one that has addressed storage media. See also disk drive module.

> 2) The mechanism used to seek, read, and write information on a storage medium.

DS6000

See IBM TotalStorage DS6000.

DS6000 Batch Configuration tool

A program that automatically configures a DS6000. The configuration is based on data that IBM service personnel enter into the program.

DS Storage Manager

See IBM TotalStorage DS Storage Manager.

duplex

- 1) Regarding Copy Services, the state of a volume pair after Remote Mirror and Copy has completed the copy operation and the volume pair is synchronized.
- 2) In general, pertaining to a communication mode in which data can be sent and received at the same time.

dynamic sparing

The ability of a storage server to move data from a failing disk drive module (DDM) to a spare DDM while maintaining storage functions.

F

E10 The predecessor of the F10 model of the Enterprise Storage Server. See also F10.

E20 The predecessor of the F20 model of the Enterprise Storage Server. See also F20.

EBCDIC

See extended binary-coded decimal interchange code.

EC See *engineering change*.

ECKD See extended count key data.

eight pack

See disk pack.

electrostatic discharge (ESD)

An undesirable discharge of static electricity that can damage equipment and degrade electrical circuitry.

emergency power off (EPO)

A means of turning off power during an emergency, usually a switch.

EMIF See *ESCON* multiple image facility.

enclosure

A unit that houses the components of a storage subsystem, such as a control unit, disk drives, and power source.

end of file

A coded character recorded on a data medium to indicate the end of the medium. On a count-key-data direct access storage device, the subsystem indicates the end of a file by including a record with a data length of zero.

engineering change (EC)

An update to a machine, part, or program.

Enterprise Systems Architecture/390 (ESA/390)

An IBM architecture for mainframe computers and peripherals. Processor systems that follow the ESA/390 architecture include the ES/9000[®] family. See also *z/Architecture*.

Enterprise Systems Connection (ESCON)

1) A zSeries computer peripheral interface. The I/O interface uses zSeries logical protocols over a serial interface that configures attached units to a communication fabric.

2) A set of IBM products and services that provide a dynamically connected environment within an enterprise.

EPO See emergency power off.

ERDS See error-recording data set.

ERP See error recovery procedure.

error-recording data set (ERDS)

On zSeries hosts, a data set that records data-storage and data-retrieval errors. A

service information message (SIM) provides the error information for the ERDS.

error recovery procedure (ERP)

Procedures designed to help isolate and, where possible, to recover from errors in equipment. The procedures are often used in conjunction with programs that record information on machine malfunctions.

ESA/390

See Enterprise Systems Architecture/390.

ESCD See *ESCON director*.

ESCON

See Enterprise System Connection.

ESCON channel

A zSeries channel that supports ESCON protocols.

ESCON director (ESCD)

An I/O interface switch that allows the interconnection of multiple ESCON interfaces in a distributed-star topology.

ESCON host systems

zSeries hosts that attach to the DS6000 with an ESCON adapter. Such host systems run on operating systems that include MVS, VSE, TPF, or versions of VM.

ESCON multiple image facility (EMIF)

For zSeries, a function that enables LPARs to share an ESCON channel path by providing each LPAR with its own channel-subsystem image.

EsconNet

In the DS Storage Manager, the label on a pseudo host icon that represents a host connection that uses the ESCON protocol and that is not completely defined on the DS6000. See also *pseudo host* and *access-any mode*.

ESD See *electrostatic discharge*.

eserver

See IBM e(logo)server.

ESSNet

See IBM TotalStorage Enterprise Storage Server Network.

express configuration

A method for configuring a storage complex, where the storage server

simplifies the task by making several configuration decisions for the user.

extended binary-coded decimal interchange code (EBCDIC)

An IBM-developed coding scheme used to represent various alphabetic, numeric, and special symbols with a coded character set of 256 eight-bit codes.

extended count key data (ECKD)

An extension of the count key data (CKD) architecture.

extent A continuous space on a disk that is occupied by or reserved for a particular data set, data space, or file. The unit of increment is a track. See also *multiple* allegiance and parallel access volumes.

extent pool

A groups of extents. See also extent.

F

fabric In fibre-channel technology, a routing structure, such as a switch, receives addressed information and routes to the appropriate destination. A fabric can consist of more than one switch. When multiple fibre-channel switches are interconnected, they are said to be cascaded.

failback

Pertaining to a cluster recovery from failover following repair. See also *failover*.

failover

Pertaining to the process of transferring all control to a single cluster when the other cluster in the storage unit fails. See also *cluster* and *failback*.

fast write

A write operation at cache speed that does not require immediate transfer of data to a disk drive. The subsystem writes the data directly to cache, to nonvolatile storage, or to both. The data is then available for destaging. A fast-write operation reduces the time an application must wait for the I/O operation to complete.

FBA See fixed-block architecture.

FC See *feature code*. **Note**: *FC* is a common abbreviation for fibre channel in the

industry, but the DS6000 customer documentation library reserves *FC* for feature code.

FC-AL See Fibre Channel-Arbitrated Loop.

FCP See fibre-channel protocol.

FCS See *fibre-channel standard*.

feature code (FC)

A code that identifies a particular orderable option and that is used by service personnel to process hardware and software orders. Individual optional features are each identified by a unique feature code.

fibre channel

A data-transmission architecture based on the ANSI Fibre Channel standard, which supports full-duplex communication. The DS6000 supports data transmission over fiber-optic cable through its fibre-channel adapters. See also *fibre-channel protocol* and *fibre-channel standard*.

Fibre Channel-Arbitrated Loop (FC-AL)

An implementation of the Fibre Channel standard that uses a ring topology for the communication fabric. Refer to American National Standards Institute (ANSI) X3T11/93-275. In this topology, two or more fibre-channel end points are interconnected through a looped interface.

fibre-channel connection (FICON)

A fibre-channel communications protocol designed for IBM mainframe computers and peripherals.

fibre-channel protocol (FCP)

A protocol used in fibre-channel communications with five layers that define how fibre-channel ports interact through their physical links to communicate with other ports.

Fibre-Channel standard (FCS)

An ANSI standard for a computer peripheral interface. The I/O interface defines a protocol for communication over a serial interface that configures attached units to a communication fabric. The protocol has two layers. The IP layer defines basic interconnection protocols. The upper layer supports one or more logical protocols (for example, FCP for SCSI command protocols and SBCON for zSeries command protocols). Refer to

American National Standards Institute (ANSI) X3.230-199x. See also fibre-channel protocol.

fibre-channel topology

An interconnection topology supported on fibre-channel adapters. See also point-to-point connection, switched fabric, and arbitrated loop.

FICON

See fibre-channel connection.

FiconNet

In the DS Storage Manager, the label on a pseudo host icon that represents a host connection that uses the FICON protocol and that is not completely defined on the DS6000. See also pseudo host and access-any mode.

field replaceable unit (FRU)

An assembly that is replaced in its entirety when any one of its components fails. In some cases, a field replaceable unit might contain other field replaceable units. (GC)

FIFO See first-in-first-out.

File Transfer Protocol (FTP)

In TCP/IP, an application protocol used to transfer files to and from host computers. See also *Transmission Control* Protocol/Internet Protocol.

firewall

A protection against unauthorized connection to a computer or a data storage system. The protection is usually in the form of software on a gateway server that grants access to users who meet authorization criteria.

first-in-first-out (FIFO)

A queuing technique in which the next item to be retrieved is the item that has been in the queue for the longest time. (A)

fixed-block architecture (FBA)

An architecture for logical devices that specifies the format of and access mechanisms for the logical data units on the device. The logical data unit is a block. All blocks on the device are the same size (fixed size). The subsystem can access them independently.

fixed-block device

An architecture for logical devices that specifies the format of the logical data units on the device. The logical data unit is a block. All blocks on the device are the same size (fixed size); the subsystem can access them independently. This is the required format of the logical data units for host systems that attach with a SCSI or fibre-channel interface. See also fibre channel and small computer systems interface.

FlashCopy

An optional feature of the DS6000 that can make an instant copy of data, that is, a point-in-time copy of a volume.

FlashCopy relationship

A mapping of a FlashCopy source volume and a FlashCopy target volume that allows a point-in-time copy of the source volume to be copied to the target volume. FlashCopy relationships exist from the time that you initiate a FlashCopy operation until the storage unit copies all data from the source volume to the target volume or until you delete the FlashCopy relationship, if it is persistent.

FRU See field replaceable unit.

FTP See File Transfer Protocol.

full duplex

See duplex.

fuzzy copy

A function of the Global Copy feature wherein modifications to the primary logical volume are performed on the secondary logical volume at a later time. The original order of update is not strictly maintained. See also Global Copy.

G

GB See gigabyte.

GDPS See Geographically Dispersed Parallel Sysplex.

Geographically Dispersed Parallel Sysplex (GDPS)

A zSeries multisite application-availability solution.

gigabyte (GB)

A gigabyte of storage is 10⁹ bytes. A gigabyte of memory is 230 bytes.

Global Copy

An optional capability of the DS6000 remote mirror and copy feature that maintains a fuzzy copy of a logical volume

on the same DS6000 or on another DS6000. In other words, all modifications that any attached host performs on the primary logical volume are also performed on the secondary logical volume at a later point in time. The original order of update is not strictly maintained. See also Remote Mirror and Copy and Metro Mirror.

Global Mirror

An optional capability of the DS6000 remote mirror and copy feature that provides a 2-site extended distance remote copy. Data that is written by the host to the storage unit at the local site is automatically maintained at the remote site. See also Metro Mirror and Remote Mirror and Copy.

group In DS6000 documentation, a nickname for two different kinds of groups, depending on the context. See disk pack or Copy Services server group.

Н

HA See host adapter.

HACMP

See High-Availability Cluster Multi-Processing.

hard disk drive (HDD)

- 1) A storage medium within a storage server used to maintain information that the storage server requires.
- 2) A mass storage medium for computers that is typically available as a fixed disk (such as the disks used in system units of personal computers or in drives that are external to a personal computer) or a removable cartridge.

hardware service manager (HSM)

An option on an AS/400 or iSeries host that enables the user to display and work with system hardware resources and to debug input-output processors (IOP), input-output adapters (IOA), and devices.

HCD See Hardware Configuration Data.

HDA See head and disk assembly.

HDD See hard disk drive.

hdisk An AIX term for storage space.

head and disk assembly (HDA)

The portion of an HDD associated with the medium and the read/write head.

heartbeat

A status report sent at regular intervals from the DS6000. The service provider uses this report to monitor the health of the call home process. See also call home, heartbeat call home record, and remote technical assistance information network.

heartbeat call home record

Machine operating and service information sent to a service machine. These records might include such information as feature code information and product logical configuration information.

hierarchical storage management

- 1) A function in storage management software, such as Tivoli Storage Management or Data Facility Storage Management Subsystem/MVS (DFSMS/MVS), that automatically manages free space based on the policy that the storage administrator sets.
- 2) In AS/400 storage management, an automatic method to manage and distribute data between the different storage layers, such as disk units and tape library devices.

High-Availability Cluster Multi-Processing (HACMP)

Software that provides host clustering, so that a failure of one host is recovered by moving jobs to other hosts within the cluster.

high-speed link (HSL)

A hardware connectivity architecture that links system processors to system input/output buses and other system units.

home address

A nine-byte field at the beginning of a track that contains information that identifies the physical track and its association with a cylinder.

hop Interswitch connection. A hop count is the number of connections that a particular block of data traverses between source and destination. For example, data traveling from one hub over a wire to another hub traverses one hop.

host See host system.

host adapter

A physical subunit of a storage server that provides the ability to attach to one or more host I/O interfaces.

host name

The Internet address of a machine in the network. The host name can be entered in the host definition as the fully qualified domain name of the attached host system, such as mycomputer.city.company.com, or as the subname of the fully qualified domain name, for example, mycomputer. See also host system.

host processor

A processor that controls all or part of a user application network. In a network, the processing unit in which the data communication access method resides. See also *host system*.

host system

A computer, either of the mainframe (for example, zSeries) or of the open-systems type, that is connected to theDS6000. zSeries hosts are connected to the DS6000 through ESCON interfaces. Open-systems hosts are connected to the DS6000 by SCSI or fibre-channel interfaces.

hot plug

Pertaining to the ability to add or remove a hardware facility or resource to a unit while power is on.

HSL See high-speed link.

HSM See hierarchical storage management or Hardware Service Manager.

ī

i5/OS The IBM operating system that runs the IBM i5/OS and e(logo)Server i5 server families of servers.

IBM e(logo)server

The IBM brand name for a series of server products that are optimized for e-commerce. The products include the iSeries, pSeries, xSeries, and zSeries.

IBM product engineering (PE)

The third-level of IBM service support. Product engineering is composed of IBM engineers who have experience in supporting a product or who are knowledgeable about the product.

IBM Serial Storage adapter

A physical adapter based on the IBM Serial Storage architecture. IBM Serial Storage adapters connect disk drive modules to DS6000 clusters.

IBM TotalStorage

The brand name used to identify storage products from IBM, including the IBM TotalStorage DS6000. See also IBM TotalStorage DS6000 and IBM TotalStorage DS Storage Manager.

IBM TotalStorage DS6000

A member of the IBM TotalStorage Resiliency Family of storage servers and attached storage devices (disk drive modules). The DS6000 delivers high-performance, fault-tolerant storage and management of enterprise data, affording access through multiple concurrent operating systems and communication protocols. High performance is provided by multiple symmetrical multiprocessors, integrated caching, RAID support for the disk drive modules, and disk access through a high-speed serial storage architecture interface.

IBM TotalStorage DS CLI

The command-line interface (CLI) that is specific to the DS6000.

IBM TotalStorage DS Storage Manager (DS Storage Manager)

Software with a Web-browser interface for configuring the DS6000.

IBM TotalStorage Enterprise Storage Server Network (ESSNet)

A private network providing Web browser access to the Enterprise Storage Server. IBM installs the ESSNet software on an IBM workstation called the IBM TotalStorage ESS Master Console, supplied with the first ESS delivery.

IBM TotalStorage Management Console (MC)

An IBM workstation that acts as the focal point for configuration, Copy Services management, and maintenance for the DS6000. It includes a Web browser that provides links to the user interface, including the DS Storage Manager and the DS6000 Copy Services.

IBM TotalStorage Multipath Subsystem Device Driver (SDD)

Software that is designed to support the multipath configuration environments of the DS6000. The SDD resides in a host system with the native disk device driver.

IBM TotalStorage Resiliency Family

A set of hardware and software features and products, as well as integrated software and services that are available on theIBM TotalStorage DS6000 and the IBM TotalStorage Enterprise Storage Server, Models 750 and 800.

IML See initial microcode load.

implicit allegiance

In Enterprise Systems Architecture/390, a relationship that a control unit creates between a device and a channel path when the device accepts a read or write operation. The control unit guarantees access to the channel program over the set of channel paths that it associates with the allegiance.

initial microcode load (IML)

The action of loading microcode for a computer into that computer's storage.

initial program load (IPL)

The action of loading software into a computer, typically an operating system that controls the computer.

initiator

A SCSI device that communicates with and controls one or more targets. Contrast with target.

i-node The internal structure in an AIX operating system that describes the individual files in the operating system. It contains the code, type, location, and owner of a file.

input/output (I/O)

Pertaining to (a) input, output, or both or (b) a device, process, or channel involved in data input, data output, or both.

input/output configuration data set

A configuration definition built by the I/O configuration program (IOCP) and stored on disk files associated with the processor controller.

interleave

To automatically create two striped partitions across the drives in a RAID-5 array, both of which use the count-key-data (CKD) record format.

Internet Protocol (IP)

In the Internet suite of protocols, a protocol without connections that routes data through a network or interconnecting networks and acts as an intermediary between the higher protocol layers and the physical network. The upper layer supports one or more logical protocols (for example, a SCSI-command protocol and a zSeries command protocol). Refer to ANSI X3.230-199x. The IP acronym is the IP in TCP/IP. See also Transmission Control Protocol/Internet Protocol.

invalidate

To remove a logical data unit from cache memory because it cannot support continued access to the logical data unit on the device. This removal might be the result of a failure within the storage server or a storage device that is associated with the device.

I/O See input/output.

I/O adapter (IOA)

An input-output adapter on the PCI bus.

IOCDS

See input/output configuration data set.

IOCP See I/O Configuration Program.

I/O Configuration Program (IOCP)

A program that defines to a system all the available I/O devices and channel paths.

I/O device

An addressable read and write unit, such as a disk drive device, magnetic tape device, or printer.

I/O interface

An interface that enables a host to perform read and write operations with its associated peripheral devices.

I/O Priority Queueing

A facility in the Workload Manager of zSeries that enables the system administrator to set priorities for queueing I/Os from different system images. See also multiple allegiance and parallel access volume.

I/O processor (IOP)

Controls input-output adapters and other devices.

I/O sequential response time

The time an I/O request is gueued in processor memory waiting for previous I/Os to the same volume to complete.

IOSQ See I/O sequential response time.

IP See Internet Protocol.

IPL See initial program load.

iSeries

An IBM e(logo)server product that emphasizes integration. It is the successor to the AS/400 family of servers.

J

Java Virtual Machine (JVM)

A software implementation of a central processing unit (CPU) that runs compiled Java code (applets and applications). (GC)

JVM See Java Virtual Machine.

K

KB See kilobyte.

key field

The second (optional) field of a count key data record. The key length is specified in the count field. The key length determines the field length. The program writes the data in the key field and uses the key field to identify or locate a given record. The subsystem does not use the key field.

kilobyte (KB)

- 1) For processor storage, real, and virtual storage, and channel volume, 210 or 1024
- 2) For disk storage capacity and communications volume, 1000 bytes.

Korn shell

Interactive command interpreter and a command programming language.

KPOH See thousands of power-on hours.

LAN See local area network.

last-in first-out (LIFO)

A queuing technique in which the next item to be retrieved is the item most recently placed in the queue. (A)

LBA See logical block address. LCU See logical control unit.

least recently used (LRU)

- 1) The algorithm used to identify and make available the cache space that contains the least-recently used data.
- 2) A policy for a caching algorithm that chooses to remove from cache the item that has the longest elapsed time since its last access.

LED See light-emitting diode.

LMC See licensed machine code.

licensed machine code (LMC)

Microcode that IBM does not sell as part of a machine, but licenses to the customer. LMC is implemented in a part of storage that is not addressable by user programs. Some IBM products use it to implement functions as an alternate to hard-wired circuitry.

LIFO See last-in first-out.

light-emitting diode (LED)

A semiconductor chip that gives off visible or infrared light when activated.

link address

On an ESCON interface, the portion of a source or destination address in a frame that ESCON uses to route a frame through an ESCON director. ESCON associates the link address with a specific switch port that is on the ESCON director. Equivalently, it associates the link address with the channel subsystem or control unit link-level functions that are attached to the switch port.

link-level facility

The ESCON hardware and logical functions of a control unit or channel subsystem that allow communication over an ESCON write interface and an ESCON read interface.

local area network (LAN)

A computer network located on a user's premises within a limited geographic area.

local e-mail

An e-mail configuration option for storage servers that are connected to a host-system network that does not have a domain name system (DNS) server.

logical address

On an ESCON interface, the portion of a

source or destination address in a frame used to select a specific channel-subsystem or control-unit image.

logical block address (LBA)

The address assigned by the DS6000 to a sector of a disk.

logical control unit (LCU)

See control-unit image.

logical data unit

A unit of storage that is accessible on a given device.

logical device

The facilities of a storage server (such as the DS6000) associated with the processing of I/O operations directed to a single host-accessible emulated I/O device. The associated storage is referred to as a logical volume. The logical device is mapped to one or more host-addressable units, such as a device on a zSeries I/O interface or a logical unit on a SCSI I/O interface, such that the host initiating I/O operations to the I/O-addressable unit interacts with the storage on the associated logical device.

logical partition (LPAR)

For zSeries, a set of functions that create the programming environment in which more than one logical partition (LPAR) is established on a processor. An LPAR is conceptually similar to a virtual machine environment except that the LPAR is a function of the processor. Also, the LPAR does not depend on an operating system to create the virtual machine environment.

logical path

- 1) The relationship between a channel image and a control-unit image that designates the physical path to be used for device-level communications between these images. The logical path is established as part of the channel and control-unit initialization procedures by the exchange of link-level frames.
- 2) With the Remote Mirror and Copy feature, the relationship between a source logical subsystem (LSS) and a target LSS that is created over a physical path through the interconnection fabric that is used for Remote Mirror and Copy

functions. An LSS is a primary control unit, which performs the functions of a channel image.

logical subsystem (LSS)

A topological construct that consists of a group of up to 256 logical devices. A DS6000 can have up to 16 CKD-formatted logical subsystems (4096 CKD logical devices) and also up to 16 fixed-block logical subsystems (4096 fixed-block logical devices). The logical subsystem facilitates configuration of the DS6000 and might have other implications relative to the operation of certain functions. There is a one-to-one mapping between a CKD logical subsystem and a zSeries control-unit image.

For zSeries hosts, a logical subsystem represents a logical control unit (LCU). Each control-unit image is associated with only one logical subsystem. See also control-unit image.

logical unit

In open systems, a logical disk drive.

logical unit number (LUN)

In the SCSI protocol, a unique number that is used on a SCSI bus to enable it to differentiate between separate devices, each of which is a logical unit.

logical volume

The storage medium that is associated with a logical disk drive. A logical volume typically resides on one or more storage devices. The DS6000 administrator defines this unit of storage. The logical volume, when residing on a RAID-formatted array, is spread over the drives in the array.

logical volume manager (LVM)

A set of system commands, library routines, and other tools that allow the user to establish and control logical volume storage. The LVM maps data between the logical view of storage space and the physical disk drive module.

longitudinal redundancy check (LRC)

1) A method of error checking during data transfer that involves checking parity on a row of binary digits that are members of a set that forms a matrix. Longitudinal redundancy check is also called a longitudinal parity check.

2) A mechanism that the DS6000 uses for locating errors. The LRC checks the data as it progresses from the host, through the DS6000 controller, into the device adapter, and to the array.

longwave laser adapter

A connector that is used between a host and the DS6000 to support longwave fibre-channel communication.

loop The physical connection between a pair of device adapters in the DS6000. See also *device adapter*.

LPAR See *logical partition*.

LRC See longitudinal redundancy check.

LRU See least recently used.

LSS See logical subsystem.

LUN See logical unit number.

LVM See *logical volume manager*.

M

machine level control (MLC)

A database that contains the EC level and configuration of products in the field.

machine reported product data (MRPD)

Product data gathered by a machine and sent to a destination such as an IBM support server or RETAIN. These records might include such information as feature code information and product logical configuration information.

mainframe

A computer, usually in a computer center, with extensive capabilities and resources to which other computers may be connected so that they can share facilities. (T)

maintenance analysis procedure (MAP)

A hardware maintenance document that gives an IBM service representative a step-by-step procedure for tracing a symptom to the cause of a failure.

management console

See IBM TotalStorage Management Console.

Management Information Base (MIB)

1) A collection of objects that can be accessed by means of a network management protocol. (GC)

2) The MIB record conforms to the Open Systems Interconnection (OSI) standard defined by the International Organization for Standardization (ISO) for the exchange of information. See also *simple network management protocol*.

MAP See maintenance analysis procedure.

master storage unit

The physical unit that controls the creation of consistency groups in a Global Mirror session. The master storage unit sends commands to subordinate storage units. A storage unit can be a master for only one Global Mirror session. Contrast with subordinate storage unit.

maximum consistency group drain time

The value in seconds that indicates the maximum time that writes from the local site are delayed to the remote site while the current consistency group is being formed at the remote site. When this time is exceeded, the current attempt to form a consistency group is ended and another attempt is started. If this time is exceeded five times, this maximum time is ignored on the next attempt to form a consistency group. The default value is the larger of four minutes or two times the consistency group interval time if this value is set to zero.

maximum coordination time

The value in milliseconds that indicates the maximum time that is allowed for host I/O to be delayed during the coordination of the primary volumes of an Global Mirror session. The default is 50 milliseconds if this value is set to zero.

MB See *megabyte*.

MC See IBM TotalStorage Management Console.

MCA See Micro Channel architecture.

MDM See Multiple Device Manager.

mean time between failures (MTBF)

1) A projection of the time that an individual unit remains functional. The time is based on averaging the performance, or projected performance, of a population of statistically independent units. The units operate under a set of conditions or assumptions.

2) For a stated period in the life of a functional unit, the mean value of the lengths of time between consecutive failures under stated conditions. (I) (A)

medium

For a storage unit, the disk surface on which data is stored.

megabyte (MB)

- 1) For processor storage, real and virtual storage, and channel volume, 2²⁰ or 1 048 576 bytes.
- 2) For disk storage capacity and communications volume, 1 000 000 bytes.

Metro Mirror

A function of a storage server that maintains a consistent copy of a logical volume on the same storage server or on another storage server. All modifications that any attached host performs on the primary logical volume are also performed on the secondary logical volume. See also *Remote Mirror and Copy* and *Global Copy*.

MES See miscellaneous equipment specification.

MIB See management information base.

Micro Channel architecture (MCA)

The rules that define how subsystems and adapters use the Micro Channel bus in a computer. The architecture defines the services that each subsystem can or must provide.

Microsoft Internet Explorer (MSIE)

Web browser software manufactured by Microsoft.

migration

The replacement of a system or subsystem with a different type of system or subsystem, such as replacing a SCSI host adapter with a fibre-channel host adapter. In the context of data migration regarding the DS6000, the transfer of data from one storage unit to another, such as from a 3390 to the DS6000.

MIH See missing-interrupt handler.

mirrored pair

Two units that contain the same data. The system refers to them as one entity.

mirroring

In host systems, the process of writing the

same data to two disk units within the same auxiliary storage pool at the same time

miscellaneous equipment specification (MES)

IBM field-installed change to a machine.

missing-interrupt handler (MIH)

An MVS and MVS/XA facility that tracks I/O interrupts. MIH informs the operator and creates a record whenever an expected interrupt fails to occur before a specified elapsed time is exceeded.

MLC See machine level control.

mobile solutions terminal (MoST)

The mobile terminal used by service personnel.

mode conditioning patch cable

A cable that converts a single-mode signal from a longwave adapter into a light signal that is appropriate for multimode fibre. Another mode conditioning patch cable is required at the terminating end of the multimode fibre to convert the signal back to a single-mode signal for a longwave adapter.

Model 100

A 2105 Model 100, often simply referred to as a Mod 100, is an expansion enclosure for the Enterprise Storage Server. See also *2105*.

MoST See mobile solutions terminal.

MRPD See machine reported product data.

MSA See multiport serial adapter.

MSIE See Microsoft Internet Explorer.

MTBF See mean time between failures.

Multipath Subsystem Device Driver

See IBM TotalStorage DS6000 Multipath Subsystem Device Driver.

multiple allegiance

A DS6000 hardware function that is independent of software support. This function enables multiple system images to concurrently access the same logical volume on the DS6000 as long as the system images are accessing different extents. See also *extent* and *parallel* access volumes.

Multiple Device Manager (MDM)

A component of the IBM TotalStorage Productivity Center that allows

administrators to configure, manage, and monitor the performance of SAN storage devices from a single console.

multiple relationship FlashCopy

An option of the DS6000 that creates backup copies from one source to multiple targets by simultaneously establishing multiple FlashCopy relationships.

multiple virtual storage (MVS)

Implies MVS/390, MVS/XA, MVS/ESA, and the MVS element of the zSeries operating system.

multiplex

The action of transmitting simultaneously.

multiport serial adapter (MSA)

An adapter on the IBM TotalStorage Management Console that has multiple ports to which aDS6000 can be attached.

multiprocessor

A computer that includes two or more processors that have common access to a main storage. For the DS6000, the multiprocessors operate in parallel.

MVS See multiple virtual storage.

N

name server

A server that stores names of the participating DS6000 clusters.

Netfinity

IBM Intel-processor-based server; predecessor to the IBM xSeries server.

Netscape Navigator

Web browser software manufactured by Netscape.

network manager

A program or group of programs that is used to monitor, manage, and diagnose the problems of a network. (GC)

The unit that is connected in a node fibre-channel network. A DS6000 is a node in a fibre-channel network.

non-RAID

A disk drive set up independently of other disk drives and not set up as part of a disk pack to store data using the redundant array of disks (RAID) data-striping methodology.

nonremovable medium

A recording medium that cannot be added to or removed from a storage device.

nonvolatile storage (NVS)

Memory that stores active write data to avoid data loss in the event of a power loss.

NVS See nonvolatile storage.

octet

In Internet Protocol addressing, one of the four parts of a 32-bit integer presented in dotted decimal notation. See also dotted decimal notation.

OEMI See original equipment manufacturer's information.

open system

A system whose characteristics comply with standards made available throughout the industry and that therefore can be connected to other systems complying with the same standards. Applied to the DS6000, such systems are those hosts that connect to the DS6000 through SCSI or FCP protocols. See also small computer system interface and fibre-channel protocol.

organizationally unique identifier (OUI)

An IEEE-standards number that identifies an organization with a 24-bit globally unique assigned number referenced by various standards. OUI is used in the family of 802 LAN standards, such as Ethernet and Token Ring.

original equipment manufacturer's information (OEMI)

A reference to an IBM guideline for a computer peripheral interface. The interface uses ESA/390 logical protocols over an I/O interface that configures attached units in a multidrop bus topology.

OS/390

The IBM operating system that includes and integrates functions that many IBM software products (including the MVS operating system) previously provided for the IBM S/390 family of enterprise servers.

OUI See organizationally unique identifier.

P

panel The formatted display of information that appears on a display screen.

parallel access volume (PAV)

An advanced function of the DS6000 that enables OS/390 and z/OS systems to issue concurrent I/O requests against a count key data logical volume by associating multiple devices of a single control-unit image with a single logical device. Up to eight device addresses can be assigned to a PAV. The PAV function enables two or more concurrent write operations to the same logical volume, as long as the write operations are not to the same extents. See also extent, I/O Priority Queueing, and multiple allegiance.

parity A data checking scheme used in a computer system to ensure the integrity of the data. The RAID implementation uses parity to re-create data if a disk drive fails.

path group

In zSeries architecture, a set of channel paths that are defined to a control unit as being associated with a single logical partition (LPAR). The channel paths are in a group state and are online to the host. See also logical partition.

path group identifier

In zSeries architecture, the identifier that uniquely identifies a given logical partition (LPAR). The path group identifier is used in communication between the LPAR program and a device. The identifier associates the path group with one or more channel paths, thereby defining these paths to the control unit as being associated with the same LPAR. See also logical partition.

PAV See parallel access volume.

PCI See peripheral component interconnect.

PDU See protocol data unit.

PE See IBM product engineering.

peripheral component interconnect (PCI)

An architecture for a system bus and associated protocols that supports attachments of adapter cards to a system backplane.

persistent FlashCopy

A state where a FlashCopy relationship

remains indefinitely until the user deletes it. The relationship between the source and target volumes is maintained after a background copy completes.

physical path

A single path through the I/O interconnection fabric that attaches two units. For Copy Services, this is the path from a host adapter on one DS6000 (through cabling and switches) to a host adapter on anotherDS6000.

pinned data

Data that is held in cache until either an error condition is corrected and it can be moved to disk storage or until the data is discarded by a host command. Pinned data conditions can only occur on an ESS Model 800 during fast-write or dual-copy functions.

point-in-time copy

A FlashCopy option that creates an instantaneous view of original source data at a specific moment in time.

point-to-point connection

A fibre-channel topology that enables the direct interconnection of ports. See also arbitrated loop and switched fabric.

port A physical connection on a host adapter to the cable that connects the DS6000 to hosts, switches, or another DS6000. The DS6000 uses SCSI and ESCON host adapters that have two ports per adapter, and fibre-channel host adapters that have one port. See also ESCON, fibre channel, host adapter, and small computer system interface.

POST See power-on self test.

power-on self test (POST)

A diagnostic test that servers or computers run when they are turned on.

predictable write

A write operation that can cache without knowledge of the existing format on the medium. All write operations on FBA DASD devices are predictable. On CKD DASD devices, a write operation is predictable if it does a format write operation for the first data record on the track.

primary control unit

The DS6000 to which a Remote Mirror and Copy primary device is physically attached.

processor complex

A partition of a storage server that is capable of performing all defined functions of the storage server. Multiple processor complexes provide redundancy.

product engineering

See IBM product engineering.

program

On a computer, a generic term for software that controls the operation of the computer. Typically, the program is a logical assemblage of software modules that perform multiple related tasks.

program-controlled interruption

An interruption that occurs when an I/O channel fetches a channel command word with the program-controlled interruption flag on.

program temporary fix (PTF)

A temporary solution to, or bypass of, a problem diagnosed by IBM as the result of a defect in a current unaltered release of a licensed program. (GC)

promote

To add a logical data unit to cache memory.

protected volume

In AS/400, a disk storage device that is protected from data loss by RAID techniques. An AS/400 host does not mirror a volume configured as a protected volume, while it does mirror all volumes configured as unprotected volumes. The DS6000, however, can be configured to indicate that an AS/400 volume is protected or unprotected and give it RAID protection in either case.

protocol data unit (PDU)

A unit of data specified in the protocol of a given layer and consisting of protocol control information for the layer and, possibly, user data for the layer.

pSeries

The product name of an IBM e(logo)server product that emphasizes performance. It is the successor to the RS/6000 family of servers.

pseudo host

A host connection that is not explicitly defined to the DS6000 and that has access to at least one volume that is configured on the DS6000. The FiconNet pseudo host icon represents the FICON protocol. The EsconNet pseudo host icon represents the ESCON protocol. The pseudo host icon labelled Anonymous represents hosts connected through the FCP protocol. *Anonymous host* is a commonly used synonym for *pseudo host*. The DS6000 adds a pseudo host icon only when it is set to access-any mode. See also *access-any mode*.

PTF See program temporary fix.

PV Links

Short for Physical Volume Links, an alternate pathing solution from Hewlett-Packard that provides for multiple paths to a volume, as well as static load balancing.

R

R0 See track-descriptor record.

rack See enclosure.

RAID See redundant array of independent disks. RAID is also commonly expanded to redundant array of inexpensive disks. See also array.

RAID 5

A type of RAID that optimizes cost-effective performance while emphasizing use of available capacity through data striping. RAID 5 provides fault tolerance for up to two failed disk drives by distributing parity across all the drives in the array plus one parity disk drive. The DS6000 automatically reserves spare disk drives when it assigns arrays to a device adapter, RAID 10, and redundant array of independent disks.

RAID 10

A type of RAID that optimizes high performance while maintaining fault tolerance for up to two failed disk drives by striping volume data across several disk drives and mirroring the first set of disk drives on an identical set. The DS6000 automatically reserves spare disk drives when it assigns arrays to a device

adapter pair (DA pair). See also device adapter, RAID 5, and redundant array of independent disks.

random access

A mode of accessing data on a medium in a manner that requires the storage device to access nonconsecutive storage locations on the medium.

rank One or more arrays that are combined to create a logically contiguous storage space.

redundant array of independent disks (RAID)

A methodology of grouping disk drives for managing disk storage to insulate data from a failing disk drive.

refresh FlashCopy target volume

An option (previously called *incremental* FlashCopy) of the DS6000 that creates a point-in-time data copy without copying an entire volume for each point-in-time copy.

Remote Mirror and Copy

A feature of a storage server that constantly updates a secondary copy of a logical volume to match changes made to a primary logical volume. The primary and secondary volumes can be on the same storage server or on separate storage servers. See also Global Mirror, Metro Mirror and Global Copy.

remote technical assistance information network (RETAIN)

The initial service tracking system for IBM service support, which captures heartbeat and call-home records. See also support catcher and support catcher telephone number.

REQ/ACK

See request for acknowledgment and acknowledgment.

request for acknowledgment and acknowledgment (REQ/ACK)

A cycle of communication between two data transport devices for the purpose of verifying the connection, which starts with a request for acknowledgment from one of the devices and ends with an acknowledgment from the second device. The REQ and ACK signals help to provide uniform timing to support synchronous data transfer between an initiator and a target. The objective of a synchronous

data transfer method is to minimize the effect of device and cable delays.

reserved allegiance

For zSeries, a relationship that is created in a control unit between a device and a channel path, or path group, when the device completes a Sense Reserve command. The allegiance causes the control unit to guarantee access (that is, busy status is not presented) to the device. Access is over the set of channel paths that are associated with the allegiance; access is for one or more channel programs until the allegiance ends.

RETAIN

See remote technical assistance information network.

S

S/390 IBM enterprise servers based on Enterprise Systems Architecture/390 (ESA/390). S/390 is the currently accepted shortened form of the original name System/390.

S/390 storage

Storage arrays and logical volumes that are defined as connected to S/390 servers. This term is synonymous with count-key-data storage.

SAID See system adapter identification number.

SAM See sequential access method.

SAN See storage area network.

SBCON

See Single-Byte Command Code Sets Connection.

screen

The physical surface of a display device upon which information is shown to users.

SCSI See small computer system interface.

SCSI device

A disk drive connected to a host through an I/O interface using the SCSI protocol. A SCSI device is either an initiator or a target. See also initiator and small computer system interface.

SCSI-FCP

Synonym for fibre-channel protocol, a protocol used to transport data between an open-systems host and a fibre-channel adapter on an DS6000. See also fibre-channel protocol and small computer system interface.

SCSI host systems

Host systems that are attached to the DS6000 with a SCSI interface. Such host systems run on UNIX, i5/OS, Windows NT, Windows 2000, or Novell NetWare operating systems.

SCSI ID

A unique identifier assigned to a SCSI device that is used in protocols on the SCSI interface to identify or select the device. The number of data bits on the SCSI bus determines the number of available SCSI IDs. A wide interface has 16 bits, with 16 possible IDs.

SDD See IBM Subsystem Multipathing Device Driver.

secondary control unit

The DS6000 to which a Remote Mirror and Copy secondary device is physically attached.

self-timed interface (STI)

An interface that has one or more conductors that transmit information serially between two interconnected units without requiring any clock signals to recover the data. The interface performs clock recovery independently on each serial data stream and uses information in the data stream to determine character boundaries and inter-conductor synchronization.

sequential access

A mode of accessing data on a medium in a manner that requires the storage device to access consecutive storage locations on the medium.

sequential access method (SAM)

An access method for storing, deleting, or retrieving data in a continuous sequence based on the logical order of the records in the file.

serial connection

A method of device interconnection for determining interrupt priority by connecting the interrupt sources serially.

server A host that provides certain services to other hosts that are referred to as clients.

A functional unit that provides services to one or more clients over a network. (GC)

service boundary

A category that identifies a group of components that are unavailable for use when one of the components of the group is being serviced. Service boundaries are provided on the DS6000, for example, in each host bay and in each cluster.

service clearance

The area that is required to open the service covers and to pull out components for servicing.

service information message (SIM)

A message sent by a storage server to service personnel through an zSeries operating system.

service personnel

A generalization referring to individuals or companies authorized to service the DS6000. The terms service provider. service representative, and IBM service support representative (SSR) refer to types of service personnel. See also service support representative.

service processor

A dedicated processing unit that is used to service a storage unit.

service support representative (SSR)

Individuals or a company authorized to service the DS6000. This term also refers to a service provider, a service representative, or an IBM service support representative (SSR). An IBM SSR installs the DS6000.

SES SCSI Enclosure Services.

session

A collection of volumes within a logical subsystem that are managed together during the creation of consistent copies of data. All volumes in a session must transfer their data successfully to the remote site before the increment can be called complete.

SFP Small form factor pluggables.

shared storage

Storage that is configured so that multiple hosts can concurrently access the storage. The storage has a uniform appearance to all hosts. The host programs that access the storage must

have a common model for the information. on a storage device. The programs must be designed to handle the effects of concurrent access.

shortwave laser adapter

A connector that is used between host and DS6000 to support shortwave fibre-channel communication.

SIM See service information message.

Simple Network Management Protocol (SNMP)

In the Internet suite of protocols, a network management protocol that is used to monitor routers and attached networks. SNMP is an application layer protocol. Information on devices managed is defined and stored in the application's Management Information Base (MIB). (GC) See also management information base.

simplex volume

A volume that is not part of a FlashCopy, XRC, or PPRC volume pair.

Single-Byte Command Code Sets Connection (SBCON)

The ANSI standard for the ESCON I/O interface.

small computer system interface (SCSI)

A standard hardware interface that enables a variety of peripheral devices to communicate with one another. (GC)

smart relay host

A mail relay or mail gateway that has the capability to correct e-mail addressing problems.

SMIT See System Management Interface Tool.

SMP See symmetrical multiprocessor.

SNMP See Simple Network Management Protocol.

SNMP agent

A server process that resides on a network node and is responsible for communicating with managers regarding that node. The node is represented as a managed object, which has various fields or variables that are defined in the appropriate MIB.

SNMP manager

A managing system that runs a managing application or suite of applications. These applications depend on Management

Information Base (MIB) objects for information that resides on the managed system. Managers generate requests for this MIB information, and an SNMP agent on the managed system responds to these requests. A request can either be the retrieval or modification of MIB information.

software transparency

Criteria applied to a processing environment that states that changes do not require modifications to the host software in order to continue to provide an existing function.

source device

One of the devices in a dual-copy or remote-copy volume pair. All channel commands to the logical volume are directed to the source device. The data on the source device is duplicated on the target device. See also target device.

spare A disk drive on the DS6000 that can replace a failed disk drive. A spare can be predesignated to allow automatic dynamic sparing. Any data preexisting on a disk drive that is invoked as a spare is destroyed by the dynamic sparing copy process.

spatial reuse

A feature of serial storage architecture that enables a device adapter loop to support many simultaneous read/write operations. See also serial storage architecture.

SSID See subsystem identifier.

SSR See service support representative.

stacked status

For zSeries, the condition when the control unit is in a holding status for the channel, and the last time the control unit attempted to present the status, the channel responded with the stack-status control.

stage operation

The operation of reading data from the physical disk drive into the cache.

staging

To move data from an offline or low-priority device back to an online or higher priority device, usually on demand of the system or on request of the user.

standard volume

A volume that emulates one of several zSeries volume types, including 3390-2, 3390-3, 3390-9, 3390-2 (3380-track mode), or 3390-3 (3380-track mode), by presenting the same number of cylinders and capacity to the host as provided by the native zSeries volume type of the same name.

STI See self-timed interface.

storage area network

A network that connects a company's heterogeneous storage resources.

storage capacity

The amount of data that a storage medium can hold; usually expressed in kilobytes, megabytes, or gigabytes.

storage complex

A configuration of one or more storage units that is managed by a management console.

storage device

A physical unit that provides a mechanism to store data on a given medium such that it can be subsequently retrieved. See also disk drive module.

storage extent

The minimum contiguous range of storage on a physical storage device, array, or rank that can be allocated to a local volume

storage server

A physical unit that manages attached storage devices and provides an interface between them and a host computer by providing the function of one or more logical subsystems. The storage server can provide functions that the storage device does not provide. The storage server has one or more clusters.

storage unit

A physical unit that consists of a storage server that is integrated with one or more storage devices that provide storage capability to a host computer.

storage unit identifier

A unique identifier for a storage unit that consists of a manufacturer, a model number, a type number, a plant of manufacture, and a sequence number.

striping

A technique that distributes data in bit, byte, multibyte, record, or block increments across multiple disk drives.

subagent

An extension to an SNMP agent that permits a user to dynamically add, or in some cases replace, additional management variables in the local MIB, thereby providing a means of extending the range of information that network managers can access. See also agent.

subchannel

A logical function of a channel subsystem associated with the management of a single device.

subordinate storage unit

The physical unit that receives commands from the master storage unit and is specified when a Global Mirror session is started. The subordinate storage unit forms consistency groups and performs other Global Mirror processing. A subordinate storage unit can be controlled by only one master storage unit. Contrast with master storage unit.

subsystem identifier (SSID)

A number that uniquely identifies a logical subsystem within a computer installation.

support catcher

See catcher.

support catcher telephone number

The telephone number that connects the support catcher server to the DS6000 to receive a trace or dump package. See also support catcher and remote technical assistance information network.

switched fabric

A fibre-channel topology in which ports are interconnected through a switch. Fabric switches can also be interconnected to support numerous ports on a single network. See also arbitrated loop and point-to-point connection.

symmetrical multiprocessor (SMP)

An implementation of a multiprocessor computer consisting of several identical processors configured in a way that any subset of the set of processors is capable of continuing the operation of the computer. TheDS6000 contains four processors set up in SMP mode.

synchronous write

A write operation whose completion is indicated after the data has been stored on a storage device.

System/390

See S/390.

system adapter identification number (SAID)

The unique identification number that is automatically assigned to each DS6000 host adapter for use by Copy Services.

System Management Interface Tool (SMIT)

An interface tool of the AIX operating system for installing, maintaining, configuring, and diagnosing tasks.

System Modification Program

A program used to install software and software changes on MVS systems.

Т

TAP See Telocator Alphanumeric Protocol.

target A SCSI device that acts as a subordinate to an initiator and consists of a set of one or more logical units, each with an assigned logical unit number (LUN). The logical units on the target are typically I/O devices. A SCSI target is analogous to a zSeries control unit. See also small computer system interface.

target device

One of the devices in a dual-copy or remote-copy volume pair that contains a duplicate of the data that is on the source device. Unlike the source device, the target device might only accept a limited subset of data. See also source device.

TB See terabyte.

TCP/IP

See Transmission Control Protocol/Internet Protocol.

Telocator Alphanumeric Protocol (TAP)

An industry standard protocol for the input of paging requests.

terabyte (TB)

- 1) Nominally, 1 000 000 000 000 bytes, which is accurate when speaking of bandwidth and disk storage capacity.
- 2) For DS6000 cache memory, processor storage, real and virtual storage, a terabyte refers to 240 or 1 099 511 627 776 bytes.

terminal emulator

A function of the management console that allows it to emulate a terminal.

thousands of power-on hours (KPOH)

A unit of time used to measure the mean time between failures (MTBF).

time sharing option (TSO)

An operating system option that provides interactive time sharing from remote terminals.

TotalStorage

See IBM TotalStorage.

TPF See transaction processing facility.

track A unit of storage on a CKD device that can be formatted to contain a number of data records. See also home address. track-descriptor record, and data record.

track-descriptor record (R0)

A special record on a track that follows the home address. The control program uses it to maintain certain information about the track. The record has a count field with a key length of zero, a data length of 8, and a record number of 0. This record is sometimes referred to as R0.

transaction processing facility (TPF)

A high-availability, high-performance IBM operating system, designed to support real-time, transaction-driven applications. The specialized architecture of TPF is intended to optimize system efficiency. reliability, and responsiveness for data communication and database processing. TPF provides real-time inquiry and updates to a large, centralized database, where message length is relatively short in both directions, and response time is generally less than three seconds. Formerly known as the Airline Control Program/Transaction Processing Facility (ACP/TPF).

Transmission Control Protocol (TCP)

A communications protocol used in the Internet and in any network that follows the Internet Engineering Task Force (IETF) standards for internetwork protocol. TCP provides a reliable host-to-host protocol between hosts in packet-switched communications networks and in interconnected systems of such networks. It uses the Internet Protocol (IP) as the underlying protocol.

Transmission Control Protocol/Internet Protocol (TCP/IP)

1) A combination of data-transmission protocols that provide end-to-end connections between applications over interconnected networks of different types.

2) A suite of transport and application protocols that run over the Internet Protocol. (GC) See also Internet Protocol and Transmission Control Protocol.

transparency

See software transparency.

TSO See time sharing option.

turbo processor

A faster multiprocessor that has six processors with common access to the main storage.

U

UFS UNIX filing system.

Ultra-SCSI

An enhanced small computer system interface.

unconfigure

To delete the configuration.

unit address

For zSeries, the address associated with a device on a given control unit. On ESCON interfaces, the unit address is the same as the device address. On OEMI interfaces, the unit address specifies a control unit and device pair on the interface.

unprotected volume

An AS/400 term that indicates that the AS/400 host recognizes the volume as an unprotected device, even though the storage resides on a RAID-formatted array and is, therefore, fault tolerant by definition. The data in an unprotected volume can be mirrored. Also referred to as an unprotected device.

upper-layer protocol

The layer of the Internet Protocol (IP) that supports one or more logical protocols (for example, a SCSI-command protocol and an ESA/390 command protocol). Refer to ANSI X3.230-199x.

UTC See Coordinated Universal Time.

virtual machine facility

A virtual data processing machine that appears to the user to be for the exclusive use of that user, but whose functions are accomplished by sharing the resources of a shared data processing system. An alternate name for the VM/370 IBM operating system.

vital product data (VPD)

Information that uniquely defines the system, hardware, software, and microcode elements of a processing system.

VM The root name of several IBM operating systems, such as VM/XA, VM/ESA. VM/CMS, and z/VM. See also virtual machine facility.

volume

For zSeries, the information recorded on a single unit of recording medium. Indirectly. it can refer to the unit of recording medium itself. On a nonremovablemedium storage device, the term can also indirectly refer to the storage device associated with the volume. When multiple volumes are stored on a single storage medium transparently to the program, the volumes can be referred to as logical volumes.

volume group

A collection of either physical or logical volumes.

volume label

A unique identifier that a user assigns to a logical volume.

VPD See vital product data.

VSE/ESA

An IBM operating system, the letters of which represent virtual storage extended/enterprise systems architecture.

W

weight distribution area

The area that is required to distribute the weight of the storage unit.

worldwide node name (WWNN)

A unique 64-bit identifier for a host that contains a fibre-channel port. See also worldwide port name.

worldwide port name (WWPN)

A unique 64-bit identifier associated with a fibre-channel adapter port. It is assigned in an implementation- and protocol-independent manner. See also worldwide node name

write hit

A write operation in which the requested data is in the cache.

write penalty

The performance impact of a classical RAID-5 write operation.

WWNN

See worldwide node name.

WWPN

See worldwide port name.

X

xSeries

The product name of an IBM e(logo)server product that emphasizes industry-standard server scalability and self-managing server technologies. It is the successor to the Netfinity family of servers.

Z

z/Architecture

An IBM architecture for mainframe

computers and peripherals. The IBM e(logo)server zSeries family of servers uses the z/Architecture architecture. It is the successor to the S/390 and 9672 family of servers. See also iSeries.

z/OS An operating system for the IBM e(logo)server product line that supports 64-bit real storage.

z/OS Global Mirror

A function of a storage server that assists a control program to maintain a consistent copy of a logical volume on another storage unit. All modifications of the primary logical volume by any attached host are presented in order to a single host. The host then makes these modifications on the secondary logical volume. This function was formerly called extended remote copy or XRC.

zSeries

An IBM e(logo)server family of servers that emphasizes near-zero downtime.

IBM enterprise servers based on z/Architecture.

zSeries storage

Storage arrays and logical volumes that are defined in the DS6000 as connected to zSeries servers.

IBM.

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