

IBM System Storage DS8000



Messages Reference

Version 1 Release 2

IBM System Storage DS8000



Messages Reference

Version 1 Release 2

Note:

Before using this information and the product it supports, read the information in the **Safety and environmental notices** and **Notices** sections.

First Edition (September 2006)

This edition replaces GC26-7659-05 and all previous editions of GC26-7659. This edition also applies to all subsequent releases and modifications until otherwise indicated in new editions.

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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”.
- **DS Storage manager** message identifiers are prefixed by the letters “CMUG”, “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 “IBMDCLI_”.

Notices and publication information

This section contains information about safety notices that are used in this guide, environmental notices for this product, publication information, and information about sending your comments to IBM.

Safety notices

Complete this task to find information about safety notices.

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

1. 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 and disposal

This unit contains recyclable materials.

This unit must be recycled or discarded according to applicable local and national regulations. IBM® encourages owners of information technology (IT) equipment to responsibly recycle their equipment when it is no longer needed. IBM offers a variety of product return programs and services in several countries to assist equipment owners in recycling their IT products. Information on IBM product recycling offerings can be found on IBM's Internet site at <http://www.ibm.com/ibm/environment/products/prp.shtml>.



Notice: This mark applies only to countries within the European Union (EU) and Norway.

Appliances are labeled in accordance with European Directive 2002/96/EC concerning waste electrical and electronic equipment (WEEE). The Directive determines the framework for the return and recycling of used appliances as applicable throughout the European Union. This label is applied to various products to indicate that the product is not to be thrown away, but rather reclaimed upon end of life per this Directive.

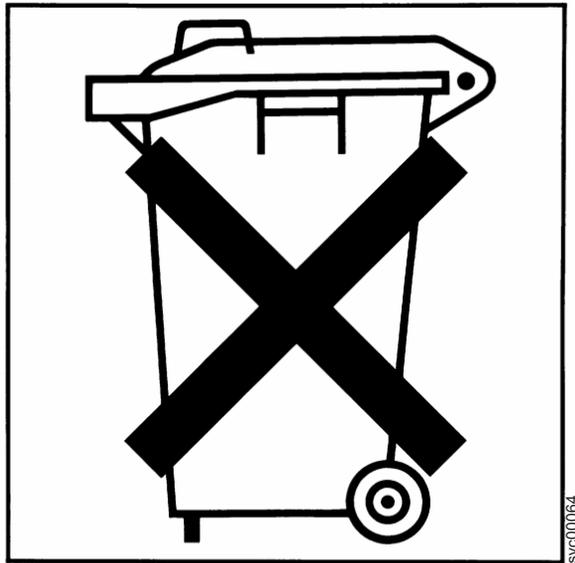
In accordance with the European WEEE Directive, electrical and electronic equipment (EEE) is to be collected separately and to be reused, recycled, or recovered at end of life. Users of EEE with the WEEE marking per Annex IV of the WEEE Directive, as shown above, must not dispose of end of life EEE as unsorted municipal waste, but use the collection framework available to customers for the return, recycling and recovery of WEEE. Customer participation is important to minimize any potential effects of EEE on the environment and human health due to the potential presence of hazardous substances in EEE. For proper collection and treatment, contact your local IBM representative.

Battery return program

This product may contain sealed lead acid, nickel cadmium, nickel metal hydride, lithium, or lithium ion battery. Consult your user manual or service manual for specific battery information. The battery must be recycled or disposed of properly. Recycling facilities may not be available in your area. For information on disposal of batteries outside the United States, go to <http://www.ibm.com/ibm/environment/products/batteryrecycle.shtml> or contact your local waste disposal facility.

In the United States, IBM has established a return process for reuse, recycling, or proper disposal of used IBM sealed lead acid, nickel cadmium, nickel metal hydride, and other battery packs from IBM Equipment. For information on proper disposal of these batteries, contact IBM at 1-800-426-4333. Please have the IBM part number listed on the battery available prior to your call.

In the Netherlands the following applies:



For Taiwan:



Please recycle batteries.

廢電池請回收

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 Publication information

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

- The publications that make up the IBM® TotalStorage™ DS8000™ series library
- Other IBM publications that relate to the DS8000 series
- Non-IBM publications that relate to the DS8000 series

See “Ordering IBM publications” on page xiii for information about how to order publications in the IBM TotalStorage DS8000 series publication library. See “How to send your comments” on page xiv for information about how to send comments about the publications.

DS8000 series library

These customer publications make up the DS8000 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-8825. 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>

See “Ordering IBM publications” on page xiii for information about ordering these and other IBM publications.

Title	Description	Order Number
<i>IBM TotalStorage DS: Command-Line Interface User's Guide</i>	This guide describes the commands that you can use from the command-line interface (CLI) for managing your DS8000 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.	SC26-7625 (See Note.)
<i>IBM TotalStorage DS8000: Host Systems Attachment Guide</i>	This guide provides guidelines for attaching the DS8000 to your host system and for migrating to fibre-channel attachment from a small computer system interface.	SC26-7628 (See Note.)
<i>IBM TotalStorage DS8000: Introduction and Planning Guide</i>	This guide introduces the DS8000 product and lists the features you can order. It also provides guidelines for planning the installation and configuration of the storage unit.	GC35-0495
<i>IBM TotalStorage Multipath Subsystem Device Driver User's Guide</i>	This publication describes how to use the IBM Subsystem Device Driver (SDD) on open-systems hosts to enhance performance and availability on the DS8000. SDD creates single paths (vpaths) that consolidate redundant paths for 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
<i>IBM TotalStorage DS8000: User's Guide</i>	This guide provides instructions for setting up and operating the DS8000 and for analyzing problems.	SC26-7623 (See Note.)
<i>IBM TotalStorage DS Application Programming Interface Reference</i>	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

Title	Description	Order Number
<i>IBM TotalStorage DS8000 Messages Reference</i>	This publication provides explanations of error, information, and warning messages that are issued from the DS8000 user interfaces.	GC26-7659
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		

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 xiii for information about ordering these and other IBM publications.

Title	Description	Order Number
Data-copy services		
<i>z/OS DFSMS Advanced Copy Services</i>	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
<i>IBM Enterprise Storage Server</i>	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
<i>Implementing Copy Services On S/390</i>	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 (PPRC), extended remote copy (XRC), FlashCopy®, and concurrent copy. This publication describes the functions, prerequisites, and corequisites and describes how to implement each function into your environment.	SG24-5680
<i>IBM TotalStorage ESS Implementing Copy Services in an Open Environment</i>	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 (PPRC) 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		

Title	Description	Order Number
<i>Fibre Channel Connection (FICON) I/O Interface: Physical Layer</i>	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
<i>Fibre Transport Services (FTS): Physical and Configuration Planning Guide</i>	This publication provides information about fibre-optic and ESCON-trunking systems.	GA22-7234
<i>IBM SAN Fibre Channel Switch: 2109 Model S08 Installation and Service Guide</i>	This guide describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S08.	SC26-7350
<i>IBM SAN Fibre Channel Switch: 2109 Model S08 User's Guide</i>	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
<i>IBM SAN Fibre Channel Switch: 2109 Model S16 Installation and Service Guide</i>	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
<i>IBM SAN Fibre Channel Switch: 2109 Model S16 User's Guide</i>	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
<i>Implementing Fibre Channel Attachment on the ESS</i>	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		
<i>ESS Solutions for Open Systems Storage: Compaq AlphaServer, HP, and Sun</i>	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
<i>IBM TotalStorage ESS Implementing Copy Services in an Open Environment</i>	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
<i>Implementing Fibre Channel Attachment on the ESS</i>	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

Title	Description	Order Number
S/390 and zSeries hosts		
<i>Device Support Facilities: User's Guide and Reference</i>	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
<i>z/OS Advanced Copy Services</i>	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
<i>DFSMS/MVS V1: Remote Copy Guide and Reference</i>	This publication provides guidelines for using remote copy functions with S/390 and zSeries hosts.	SC35-0169
<i>Fibre Transport Services (FTS): Physical and Configuration Planning Guide</i>	This publication provides information about fibre-optic and ESCON-trunking systems.	GA22-7234
<i>Implementing ESS Copy Services on S/390</i>	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
<i>ES/9000, ES/3090: IOCP User Guide Volume A04</i>	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.	GC38-0097
<i>IOCP User's Guide, IBM e(logo)server zSeries 800 and 900</i>	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: www.ibm.com/servers/resourcelink/	SB10-7029
<i>IOCP User's Guide, IBM e(logo)server zSeries</i>	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
<i>S/390: Input/Output Configuration Program User's Guide and ESCON Channel-to-Channel Reference</i>	This publication describes the Input/Output Configuration Program that supports ESCON architecture and the ESCON multiple image facility.	GC38-0401
<i>IBM z/OS Hardware Configuration Definition User's Guide</i>	This guide provides conceptual and procedural information to help you use the z/OS Hardware Configuration Definition (HCD) application. It also explains: <ul style="list-style-type: none"> • 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

Title	Description	Order Number
<i>OS/390: Hardware Configuration Definition User's Guide</i>	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.	SC28-1848
<i>OS/390 V2R10.0: MVS System Messages Volume 1 (ABA - ASA)</i>	This publication lists OS/390 MVS™ system messages ABA to ASA.	GC28-1784
<i>Using IBM 3390 Direct Access Storage in a VM Environment</i>	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.	GG26-4575
<i>Using IBM 3390 Direct Access Storage in a VSE Environment</i>	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.	GC26-4576
<i>Using IBM 3390 Direct Access Storage in an MVS Environment</i>	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
<i>z/Architecture Principles of Operation</i>	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
SAN		
<i>IBM OS/390 Hardware Configuration Definition User's Guide</i>	<p>This guide explains how to use the Hardware Configuration Data application to perform the following tasks:</p> <ul style="list-style-type: none"> • 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
<i>IBM SAN Fibre Channel Switch: 2109 Model S08 Installation and Service Guide</i>	This guide describes how to install and maintain the IBM SAN Fibre Channel Switch 2109 Model S08.	SC26-7350
<i>IBM SAN Fibre Channel Switch: 2109 Model S08 User's Guide</i>	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
<i>IBM SAN Fibre Channel Switch: 2109 Model S16 Installation and Service Guide</i>	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

Title	Description	Order Number
<i>IBM SAN Fibre Channel Switch: 2109 Model S16 User's Guide</i>	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
<i>Implementing Fibre Channel Attachment on the ESS</i>	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
Seascape family		
<i>IBM Enterprise Storage Server</i>	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
<i>IBM Enterprise Storage Server Performance Monitoring and Tuning Guide</i>	This guide, from the IBM International Technical Support Organization, provides guidance on the best way to configure, monitor, and manage your Enterprise Storage Server to ensure optimum performance.	SG24-5656
<i>IBM Versatile Storage Server: Introduction and Planning Guide</i>	This publication introduces the IBM Versatile Storage Server™ and lists the features you can order. It also provides planning information for both 2105 Models B09 and 100.	GC26-7223
<i>Implementing the IBM Enterprise Storage Server in Your Environment</i>	This publication, from the IBM International Technical Support Organization, can help you install, tailor, and configure the Enterprise Storage Server in your environment.	SG24-5420
Storage management		
<i>Device Support Facilities: User's Guide and Reference</i>	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
<i>IBM TotalStorage Solutions Handbook</i>	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

You can order copies of IBM publications using the IBM publications center.

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.elink.ibm.com/public/applications/publications/cgi-bin/pbi.cgi>

Note: Open the Web site in a new browser window by right clicking on the link and selecting "Open in New Window."

Web sites

The following Web sites provide information about the IBM TotalStorage DS8000 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/
DS8000 Information Center	http://publib.boulder.ibm.com/infocenter/ds8000ic/index.jsp
DS8000 series publications	http://www-1.ibm.com/servers/storage/support/disk 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/ds8000/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 DS8000 series	http://www-1.ibm.com/servers/storage/disk/ds8000
IBM version of the Java (JRE) that is often required for IBM products	http://www-106.ibm.com/developerworks/java/jdk/
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/
Subsystem Device Driver (SDD)	http://www-03.ibm.com/servers/storage/support/software/sdd
Technical notes and product tips	http://www.ibm.com/servers/storage/support/disk/ds8100/ Click Technical notes on the Troubleshooting tab.
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 DS8000 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. Be sure to include the title and, if applicable, the location or navigation path of the topic you are commenting on.

- 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

Download, complete, and return this Reader Comment Form.

Summary of Changes for GC26-7914-00 IBM System Storage DS8000 Messages Reference

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. In this edition, the brand "IBM TotalStorage" has been replaced with "IBM System Storage".

New Information

The following messages have been added in this edition.

Table 1. Command-line interface messages

• CMUC00235I	• CMUC00242E	• CMUC00249E	• CMUC00256W
• CMUC00236I	• CMUC00243I	• CMUC00250I	• CMUC00257W
• CMUC00237E	• CMUC00244W	• CMUC00251E	• CMUC00258E
• CMUC00238E	• CMUC00245E	• CMUC00252E	• CMUC00259E
• CMUC00239E	• CMUC00246I	• CMUC00253E	• CMUC00260E
• CMUC00240E	• CMUC00247E	• CMUC00254E	• CMUC00261E
• CMUC00241E	• CMUC00248E	• CMUC00255W	• CMUC00264E

Table 2. DS Storage Manager messages

• CMUG00182W	• CMUG00188E	• CMUG00195W	• CMUG00203E
• CMUG00183W	• CMUG00189E	• CMUG00196E	• CMUG00204W
• CMUG00184W	• CMUG00190E	• CMUG00197E	• CMUG00206E
• CMUG00185E	• CMUG00192E	• CMUG00198E	• CMUG00207E
• CMUG00186W	• CMUG00193W	• CMUG00199W	• CMUG00210W
• CMUG00187W	• CMUG00194W	• CMUG00202E	• CMUG00211W

Table 3. DS Storage Manager Copy Services messages

- CMUS00036I

Table 4. DS Storage Manager Console messages

- CMUL00031E

Table 5. Storage management console server messages

• CMUN02479E	• CMUN02500E	• CMUN08002W	• CMUN80096E
• CMUN02480E	• CMUN02501E	• CMUN80083E	• CMUN80097E
• CMUN02481E	• CMUN02502E	• CMUN80084E	• CMUN80098E
• CMUN02482E	• CMUN02503E	• CMUN80085E	• CMUN80099E
• CMUN02483E	• CMUN02504E	• CMUN80086E	• CMUN80100E
• CMUN02484E	• CMUN02505E	• CMUN80087E	• CMUN80101E
• CMUN02485E	• CMUN02506E	• CMUN80088E	• CMUN80102E
• CMUN02486E	• CMUN02507E	• CMUN80089E	• CMUN80103E
• CMUN02487E	• CMUN02513E	• CMUN80090E	• CMUN80104E
• CMUN02488E	• CMUN02514E	• CMUN80091E	• CMUN80105E
• CMUN02489E	• CMUN02515E	• CMUN80092E	• CMUN80106E
• CMUN02490E	• CMUN02516E	• CMUN80093E	• CMUN80107E
• CMUN02491E	• CMUN02517E	• CMUN80094E	• CMUN80110E
• CMUN02492E	• CMUN03120E	• CMUN80095E	
• CMUN02493E	• CMUN04010E		
• CMUN02494E	• CMUN04011E		
• CMUN02495E	• CMUN04012E		
• CMUN02496E	• CMUN04013E		
• CMUN02497E	• CMUN04014E		
• CMUN02498E	• CMUN04015E		
• CMUN02499E	• CMUN04016E		
	• CMUN04017E		

Copy Services return codes were added as a separate chapter. You can use these return codes to determine the cause of Copy Services error messages. See Chapter 8, “Generic and specific alert traps,” on page 407.

Changed Information

The following messages have been changed in this edition.

Table 6. Framework messages

- CMUF00003E

Table 7. Command-line interface messages

- CMUC00211E

Table 8. DS Storage Manager messages

- CMUG00033E
- CMUG00051E
- CMUG00176W
- CMUG00177W

DS Storage Manager service messages

No messages have been changed in this edition.

Table 9. Storage management console server messages

- CMUN02144E
- CMUN02310E
- CMUN02390E
- CMUN02396E
- CMUN02398E
- CMUN02403E
- CMUN02439E
- CMUN03012E
- CMUN03057E
- CMUN03073E
- CMUN05003E
- CMUN06041I
- CMUN08000E
- CMUN08001E
- CMUN80000E
- CMUN80018E
- CMUN80027E
- CMUN80080E
- CMUN80087E

Deleted Information

No messages have been deleted in this edition.

Chapter 1. Framework messages

Framework messages

These messages are issued by the user interface framework.

CMMCI9001E 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.

CMMCI9002I 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.

CMMCI9004E 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 were 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.

CMMCI9009E 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.

Action

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.

Action

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.

Action

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

CMMCI9023E *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.

CMMCI9024E *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.

CMMCI9025E *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.

CMMCI9027E 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.

CMMCI9030E 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.

CMMCI9032E 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.

Action

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.

CMMCI9038E 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.

CMMCI9039E 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.

CMMCI9046E 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.

CMMCI9048E 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 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.

CMMCI9049E 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.

Action

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 The panel you requested encountered an internal error.

Explanation

You might be able to resolve the problem locally by closing the current panel and reopening it, or by closing the DS Storage Manager application and reopening it. If you are using the Internet Explorer browser, ensure that the Discuss feature is not enabled. Your system administrator might be able to resolve the problem at the management console by stopping and restarting the DS network interface processes.

Action

At your desktop, one of the following might resolve the problem:

- Close the current panel, reopen it, and then request the panel again.
- Log out of the DS Storage Manager interface, close the application, reopen it, log back in, navigate to the current panel, and then request the panel again.
- If you are using the Internet Explorer browser, select the View menu, then select Explorer Bar from the View menu, and ensure that the Discuss feature is not enabled.

If you cannot resolve the problem at your desktop, ask your system administrator to do the following:

For Linux operating systems, stop and restart the DS network interface processes.

For Windows operating systems, perform the following steps:

1. Stop the IBM DS Network Interface Server Service.
2. Stop the IBM Websphere Application Service Service.
3. Start the IBM DS Network Interface Server Service.
4. Start the IBM Websphere Application Service Service.

If the problem persists, collect the PE package and 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.

CMUC00000I *COMMAND_INFO* Extent pool *VALUE_0* successfully created.

Explanation

The extent pool has been created successfully.

Action

None.

CMUC00001I *COMMAND_INFO* Extent pool *VALUE_0* 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_0* 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.

Action

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

CMUC00006I *COMMAND_INFO* **Array VALUE_0 successfully deleted.**

Explanation

The array has been deleted successfully.

Action

None.

CMUC00007I *COMMAND_INFO* **Rank VALUE_0 successfully created.**

Explanation

The rank has been created successfully.

Action

None.

CMUC00008I *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_0* 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.

CMUC00011I *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_0* 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.

Action

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_0 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.

Action

Enter Y to delete the logical control unit. Enter N to cancel the operation.

CMUC00020I *COMMAND_INFO* LCU *VALUE_0* successfully deleted.

Explanation

The logical control unit has been deleted successfully.

Action

None.

CMUC00021I *COMMAND_INFO* CKD Volume *VALUE_0* successfully created.

Explanation

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

Action

None.

CMUC00022I *COMMAND_INFO* CKD Volume *VALUE_0* 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

None.

CMUC00025I *COMMAND_INFO* **FB volume VALUE_0 successfully created.**

Explanation

The fixed block volume has been created successfully.

Action

None.

CMUC00026I *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_0 successfully deleted.**

Explanation

The fixed block volume has been deleted successfully.

Action

None.

CMUC00029I *COMMAND_INFO* **LSS VALUE_0 successfully modified.**

Explanation

The logical subsystem has been modified successfully.

Action

None.

CMUC00030I *COMMAND_INFO* Volume group *VALUE_0* 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_0* 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 Y to delete the data. Enter 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.

CMUC00041I *COMMAND_INFO* Storage unit *VALUE_0* successfully modified.

Explanation

The storage unit has been modified successfully.

Action

None.

CMUC00042I *COMMAND_INFO* Storage image *VALUE_0* 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

None.

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. Contact IBM technical support for assistance.**

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.

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

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.

Action

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.

Tip: Enter "help command_name" for more information.

CMUC00057E *COMMAND_INFO* **Volume group VALUE_0 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.

Action

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

Tip: Enter "help command_name" for more information.

CMUC00062E *COMMAND_INFO* **management console enclosure VALUE_0 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.

Action

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

Tip: Enter "help command_name" for more information.

CMUC00066E *COMMAND_INFO* **Expansion enclosure VALUE_0 does not exist.****Explanation**

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

Action

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

Tip: Enter "help command_name" for more information.

CMUC00067E *COMMAND_INFO* **Hardware resource VALUE_0 does not exist.****Explanation**

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

Action

Specify the correct hardware resource, 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.

Tip: Enter "help command_name" for more information.

CMUC00070E *COMMAND_INFO* **Inconsistent storage image ID VALUE_0.**

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_0.**

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.

Action

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_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.

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.

Tip: Enter "help command_name" for more information.

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.

Tip: Enter "help command_name" for more information.

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_0 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_0 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.

Tip: Enter "help command_name" for more information.

CMUC00087E *COMMAND_INFO* **The specified LCU 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.

Action

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_0* 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_0* 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.

Action

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 resource ID is specified. A pair of resource IDs is required for this command.****Explanation**

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

Action

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

Tip: Enter "help command_name" for more information.

CMUC00098E *COMMAND_INFO* **A pair of resource IDs is specified. A single resource ID is required for this command.****Explanation**

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

Action

Specify a single resource 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.

Action

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.

Tip: Enter "help command_name" for more information.

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_0*

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_0*.

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 -notgtread 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 -unconditional flag is invalid unless it is used in conjunction with the -at parameter.

Explanation

The -unconditional 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 -unconditional and -at flags, and then resubmit the command.

Tip: Enter "help command_name" for more information.

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_0 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 `lsavailpprcport` command to list available ports and their types. Specify an available ESCON port, and then resubmit the command.

CMUC00113E *COMMAND_INFO* **Record VALUE_0/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.

Action

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_0/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_0* 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.

Action

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

CMUC00118E *COMMAND_INFO* Unable to update password file *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.

Action

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. If you originally specified the correct logical subsystems, resubmit the task and specify the additional `-remotewwnn` option and value.

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.

Action

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 lshostvol 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.

CMUC00132E *COMMAND_INFO* Command interrupted. Resubmit the command.

Explanation

The lshostvol 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.

Action

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.

Action

None.

CMUC00139E *COMMAND_INFO* FlashCopy pair *VALUE_0* cannot be created. Contact IBM technical support for assistance.

Explanation

The FlashCopy pair cannot be created.

Action

Contact IBM technical support for assistance.

CMUC00140I *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_0* 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

None.

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.

CMUC00145I *COMMAND_INFO* **Session *SESSION_ID* opened successfully.**

Explanation

The Global Mirror session has opened successfully.

Action

None.

CMUC00146I *COMMAND_INFO* **Session *SESSION_ID* closed successfully.**

Explanation

The Global Mirror session has closed successfully.

Action

None.

CMUC00147I *COMMAND_INFO* **Session *SESSION_ID* successfully modified.**

Explanation

The Global Mirror session has been modified successfully.

Action

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 *SOURCE_LSS: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_0* successfully modified.**

Explanation

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

Action

None.

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_0* 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.

CMUC00155I *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

None.

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_0* 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

None.

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

CMUC00161I *COMMAND_INFO* Remote Mirror and Copy consistency group *VALUE_0* 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.

Action

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

None.

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

None.

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 `lsremoteflash` 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 `lsremoteflash` 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.

CMUC00177I *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.

CMUC00178I *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.

CMUC00180I *COMMAND_INFO* Removal of the remote FlashCopy volume pair *PAIR_ID* has been initiated successfully. Use the `lsremoteflash` 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 `lsremoteflash` 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.

CMUC00184E *COMMAND_INFO* **Management console server connections cannot be changed during an interactive or script session.****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*. Contact IBM technical support for assistance.**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_0*: 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_0*: 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.

CMUC00195I *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.

Action

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 command 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_0*: 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.

CMUC00202I *COMMAND_INFO* Remote Mirror and Copy ESCON path *SOURCE_LSS: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.

CMUC00205I *COMMAND_INFO* Password file *FILE_NAME* successfully created.

Explanation

The command succeeded and a new password file was created.

Action

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

CMUC00206I *COMMAND_INFO* Record *VALUE_0/VALUE_1* successfully added to password file *FILE_NAME*.

Explanation

The specified record has been added to the password file.

Action

None.

CMUC00207I *COMMAND_INFO* Record *VALUE_0/VALUE_1* successfully changed in password file *FILE_NAME*.

Explanation

The specified record has been changed in the password file.

Action

None.

CMUC00208I *COMMAND_INFO* Record *VALUE_0/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 *COMMAND_INFO* **Password file *FILE_NAME* is not formatted correctly.**

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. See the specified DS Command-Line Interface command documentation 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 *VALUE_0* Connection failure: The specified management console peers are not valid: *VALUE_1*

Explanation

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

Action

Specify valid peers, and then resubmit the task.

CMUC00220E *VALUE_0* Connection failure: *VALUE_1*

Explanation

Connection to the specified management consoles failed.

Action

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

CMUC00221E *COMMAND_INFO* Unable to remove volume *VALUE_0* from the specified volume group.

Explanation

The volume cannot be removed because one or more of the command parameters is not valid.

Action

Ensure that the command parameters are valid, and then resubmit the task.

CMUC00222E *COMMAND_INFO* Unable to add volume *VALUE_0* to the volume group. The volume group contains the maximum number of allowed volumes.

Explanation

No more volumes can be added to the volume group. You must remove an unused volume before you can add a volume to this group.

Action

Either specify a different volume group or remove a volume from the volume group, and then resubmit the task.

CMUC00223E *COMMAND_INFO* Unable to remove volume *VALUE_0* from the specified volume group. The volume is not a member of this volume group.

Explanation

The specified volume is not a member of the specified volume group.

Action

Specify a volume that is a member of the volume group, and then resubmit the task.

CMUC00224E *COMMAND_INFO* Unable to add volume *VALUE_0* to the specified volume group. LUN ID *VALUE_1* is already assigned.

Explanation

The LUN ID that you specified for the volume is already assigned to another volume in the volume group.

Action

Specify a different LUN ID for the volume, and then resubmit the task.

CMUC00225E *COMMAND_INFO* Unable to add volume *VALUE_0* to the specified volume group. LUN ID *VALUE_1* is not valid.

Explanation

The specified LUN ID for the volume is not valid. A LUN ID must be a hexadecimal number in the range (00 - FF), and it must not be assigned already to a volume in the volume group.

A LUN ID can be specified only for a SCSI-MAP 256 type volume group.

Action

Specify a valid LUN ID for the volume, and then resubmit the task.

CMUC00226E *COMMAND_INFO* Parameter *-VALUE_0* is not supported for the specified volume group.

Explanation

Some command parameters are valid only when they are applied to a specific volume group type. For example, the *-lun* parameter is valid only when used with a SCSI-MAP 256 type volume group.

Action

Specify only parameters that are supported for the volume group that you want to affect, and then resubmit the task.

CMUC00227E *COMMAND_INFO* The *-wait* option cannot be used in conjunction with single volume IDs.

Explanation

Single volume IDs were specified during a *rmflash* command that included the *-wait* option.

Action

Resubmit the command, specifying volume pair IDs with the *-wait* option, or omit the *-wait* option.

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

CMUC00228I *COMMAND_INFO* Secure connection is started.

Explanation

A secure connection has been successfully established from the specified management console.

Action

None.

CMUC00229E *COMMAND_INFO* Unable to add volume *VOLUME* to the specified volume group. The *ERROR_CODE* error code is returned.

Explanation

The volume cannot be added to the specified volume group due to an unexpected error.

Action

Ensure that you supply the necessary command parameters and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUC00230E *COMMAND_INFO* Unable to add volume *VOLUME*. The volume is already a member of the specified volume group.

Explanation

The command has failed to add one of the specified volumes to the SCSI map because the volume is already a member of the volume group.

Action

Correct the parameter by removing the volumes that already belong to the volume group or by adding volumes that do not yet belong to the volume group. You can check the current SCSI map configuration with the `showvolgrp -lunmap` command and option.

CMUC00231E *COMMAND_INFO* Duplicate resource ID *RESOURCE_TYPE RESOURCE_ID* are specified.

Explanation

You have specified a duplicate resource ID as a command parameter.

Action

Resubmit the task using a resource ID that is not a duplicate resource ID.

CMUC00232I *COMMAND_INFO* Secure connection is started successfully through the network.

Explanation

A secure connection is successfully established from the specified management console through the network.

Action

None.

CMUC00233I *COMMAND_INFO* **Secure connection has started successfully through the modem.**

Explanation

A secure connection is successfully established from the specified management console through the modem.

Action

None.

CMUC00234I *COMMAND_INFO* **No OBJECT found.**

Explanation

No instances of objects that meet your search criteria can be found.

Action

If the search criteria that you specified are correct, no action is required. If your search criteria are not correct, specify the correct search criteria and reissue the command.

CMUC00235I *COMMAND_INFO* **Target Write Inhibit for FlashCopy relationship RELATIONSHIP is successfully reset. The relationship is not removed.**

Explanation

You specified the `-resettgtinhibit` option on the `rmflash` command. When this option is specified, only the flag is reset. The FlashCopy relationship is not withdrawn.

Action

None.

CMUC00236I *COMMAND_INFO* **Target Write Inhibit for FlashCopy relationship RELATIONSHIP is successfully reset. The relationship is not removed.**

Explanation

You specified the `-resettgtinhibit` option on the `rmremoteflash` command. When this option is specified, only the flag is reset. The FlashCopy relationship is not withdrawn.

Action

None.

CMUC00237E *COMMAND_INFO* All or no options must be specified in the group: *OPTION_GROUP*

Explanation

You have specified one or more of the options with the command, but not all of the options. You must specify either all of the options for this command, or none of the options for this command.

Action

Resubmit the command with all options or with no options.

CMUC00238E *COMMAND_INFO* File write failure: *FILE_NAME*.

Explanation

The file write has failed either because you do not have write permission or because of a lack of disk space.

Action

Ensure that you have write permission to the selected disk and that there is sufficient remaining disk space, and then resubmit the task.

CMUC00239E *COMMAND_INFO* File creation failure: *FILE_NAME*.

Explanation

The file creation has failed either because you do not have the appropriate level of access to create files or because of a lack of disk space.

Action

Ensure that you have a sufficient level of access to create files and that there is sufficient remaining disk space, and then resubmit the task.

CMUC00240E *COMMAND_INFO* No write permission to the file: *FILE_NAME*.

Explanation

You do not have a sufficient level of access to write to the specified file.

Action

Ensure that you have a sufficient level of access to write to the file and resubmit the task.

CMUC00241E *COMMAND_INFO* Path does not exist: *FILE_PATH*.

Explanation

The path to the file that you have selected does not exist.

Action

Create or change the path to the file, and resubmit the task.

CMUC00242E *COMMAND_INFO* **Not a file: FILE_NAME.**

Explanation

You have specified a file name to a file that is a directory or a special file, such as a device file.

Action

Specify a file that exists and is not a directory or special file, and then resubmit the task.

CMUC00243I *COMMAND_INFO* **Audit log was successfully offloaded from LOG_ADDRESS to LOG_FILE.**

Explanation

The audit log was successfully offloaded from the specified management console to the specified file.

Action

None.

CMUC00244W *COMMAND_INFO* **The specified file currently exists. Are you sure you want to replace the file? [y/n]:**

Explanation

You have attempted to offload an audit log file to a file name and path that already exist.

Action

Enter Y to replace the currently existing file. Enter N to cancel the operation without replacing the file.

CMUC00245E *COMMAND_INFO* **Volume was not added to the volume group because the volume group VOLUME_GROUP is not available, possibly because of initialization.**

Explanation

The Add specified volume to volume group task failed due to the current state of the storage server. The storage server might be initializing.

Action

If the storage server is initializing, wait for initialization to complete. Ensure that the storage unit is in the Normal state and then add the volume to the volume group.

CMUC00246I *COMMAND_INFO* **The task might take more than *HOURS* hours to complete.**

Explanation

The DS Command-Line Interface (CLI) prompt displays when the task completes. You cannot enter another CLI command from this session until the prompt reappears. If you want to enter another CLI command before the task completes, you must use another CLI session.

Action

None.

CMUC00247E *COMMAND_INFO* **You are attempting to create volumes for a logical subsystem that does not match the rank group of the extent pool that you specified.**

Explanation

You create a logical volume from an extent pool in a rank group. The logical volume is also a member of a logical subsystem group. The logical subsystem group identifier and the rank group identifier of the extent pool that you specify must be identical. Even-numbered logical subsystem identifiers are associated with rank group identifier 0, and odd-numbered logical subsystem identifiers are associated with rank group identifier 1.

Action

Retry the create volume task and specify an extent pool and a logical subsystem group that are in the same rank group.

CMUC00248E *COMMAND_INFO* **You are attempting to access a storage unit that is not available to the management console server.**

Explanation

There is no communication between the management console server and the storage unit that you are attempting to access. The storage unit might be unavailable.

Action

Ensure the management console server can communicate with the storage unit that you are attempting to access, and retry the operation.

CMUC00249E *COMMAND_INFO* Network port *NETWORK_PORT* does not exist.

Explanation

The specified network port does not exist on the storage unit that you entered. The network port ID that you entered is valid, but that port is not installed on the storage unit.

Action

Ensure that you enter the correct storage unit. Ensure that the network port ID that you enter is installed on the storage unit, and resubmit the command.

CMUC00250I *COMMAND_INFO* You configured network port *NETWORK_PORT* successfully.

Explanation

You successfully configured or modified the port attributes of the specified network port.

Action

None.

CMUC00251E *COMMAND_INFO* Network port *NETWORK_PORT* is not valid.

Explanation

The specified network port ID is not valid.

Action

Use the DS Command-Line Interface `lsnetworkport` command to list the valid network port IDs on a storage unit, and then resubmit the task with a valid network port ID.

CMUC00252E *COMMAND_INFO* The specified command must include at least one of the following parameters: *PARAMETERS*.

Explanation

The syntax for the command that you are using requires at least one of the specified parameters.

Action

Resubmit the command and use at least one of the specified parameters.

CMUC00253E *COMMAND_INFO* Volume *VOLUME* is assigned to a user-defined volume group. No volumes were deleted.

Explanation

The specified volume is assigned to a user-defined volume group and might be receiving I/O requests. The safe option prevents you from deleting a fixed block volume that is assigned to a user-defined volume group. Because you have attempted to delete at least one volume that is assigned to a user-defined volume group and you used the safe option, no volumes have been deleted. Use the DS Command-Line Interface (CLI) `lsfbvol` command to determine the user-defined volume group to which the specified volume is assigned.

Action

Either remove the specified volume from the user-defined volume group and then resubmit the task, or resubmit the task without the safe option to delete a volume that is assigned to a user-defined volume group.

CMUC00254E *COMMAND_INFO* The command failed because at least one of the user-defined volume groups cannot be queried. No volumes have been deleted.

Explanation

You have issued the DS Command-Line Interface (CLI) `rmfbvol` command with the safe parameter. This option runs a subtask that queries the user-defined volume groups to determine if the volume is assigned to a user-defined volume group. The query subtask has not completed successfully.

Action

Wait a few minutes and resubmit the command, or resubmit the command without the safe option if you want to delete a volume without ensuring that it is not assigned to a user-defined volume group.

CMUC00255W An attempt by the DS Command-Line Interface (CLI) to write to the activity log file has failed: *ERROR_REASON*

Explanation

The write by the DS Command-Line Interface (CLI) to the activity log file has failed. This failure might be caused by an incorrect activity log file path definition, or the activity log file access permission values might not allow you to write to the activity log file. Future activity cannot be written to the activity log file.

Action

Ensure that the activity log file path is defined correctly and that you have access permission to write to the activity log file. Restart the CLI and resubmit the task.

CMUC00256W An attempt by the DS Command-Line Interface (CLI) to open the activity log file has failed: *ERROR_REASON*

Explanation

The attempt by the DS Command-Line Interface (CLI) to open the activity log file has failed. This failure might be caused by an incorrect activity log file path definition, or the activity log file access permission values might not allow you to open the activity log file. Future activity cannot be written to the activity log file.

Action

Ensure that the activity log file path is defined correctly and that you have access permission to open the activity log file. Restart the CLI and resubmit the task.

CMUC00257W The DS Command-Line Interface (CLI) has failed to process the activity log file correctly: *ERROR_REASON*

Explanation

The DS Command-Line Interface (CLI) attempt to process the activity log file has failed. This failure might be caused by an incorrect activity log file path definition, or the activity log file access permission values might not allow you to process the activity log file correctly. Future activity cannot be written to the activity log file.

Action

Ensure that the activity log file path is defined correctly and that you have access permission to process the activity log file. Restart the CLI and resubmit the task.

CMUC00258E *COMMAND_INFO* The DS Command-Line Interface (CLI) command that you have attempted is not supported for platform type *PLATFORM_TYPE*.

Explanation

The specified command is not supported by the CLI because it is not relevant on the specified operating system platform.

Action

None.

CMUC00259E *COMMAND_INFO VALUE_0 VALUE_1* The task has failed because you have attempted to create CKD volumes on more than one LCU.

Explanation

The mkckdvol command creates volumes from a single LCU. You have specified volumes from more than one LCU.

Action

Specify volumes that you want to create from a single LCU and resubmit the task. If you want to create volumes from multiple LCUs, perform a separate task for each LCU from which you want to create volumes.

CMUC00260E *COMMAND_INFO VALUE_0 VALUE_1* **The task has failed because you have attempted to create FB volumes on more than one LSS.**

Explanation

The mkfbvol command creates volumes from a single LSS. You have specified volumes from more than one LSS.

Action

Specify volumes that you want to create from a single LSS and resubmit the task. If you want to create volumes from multiple LSSs, perform a separate task for each LSS from which you want to create volumes.

CMUC00261E *COMMAND_INFO ALIAS_VOLUME_ID* **is not a correct CKD alias volume ID for volume *VOLUME* because the CKD alias volume ID must be created on the same LCU as the base volume.**

Explanation

The specified CKD alias volume ID and base volume are not on the same LCU.

Action

Ensure that the CKD alias volume ID and base volume are on the same LCU and resubmit the task.

CMUC00264E *COMMAND_INFO* **The parameter *-PARAMETER_0* that you specified can be used only with parameter *-PARAMETER_1*.**

Explanation

The combination of parameters that you have specified is not supported.

Action

Use a supported combination of parameters and resubmit the command.

Chapter 3. DS Storage Manager messages

Graphical user interface messages

These messages are issued by the DS Storage Manager.

CMUG0000E 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 These ranks have volumes configured in them: *VALUE_1*. *VALUE_0* volumes will be 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 following ranks: *VALUE_0*. 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 *VALUE_0* 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 nonzero number.

Explanation

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

Action

Enter a nonzero 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.

Action

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.

CMUG00019W Do you want *VALUE_1* increased sequentially and appended to *VALUE_0*?

Explanation

This operation assists you in creating a range of volume nicknames consisting of an alphabetic prefix that is 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.

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 *VALUE_0* 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

Click View to view the list of volumes that will be deleted. 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.

Action

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, or the requested quantity of volumes cannot be created on one of the selected volume groups.

Explanation

You are using the create open system volumes wizard to define volume properties. This operation validates the request and one of the following conditions exists:

- The requested storage space exceeds the available storage space in the extent pool.
- A volume group is selected and the sum of the requested quantity of volumes and the current quantity of volumes in the volume group is greater than the maximum quantity of volumes for that type of volume group.

Action

Specify a combination of quantity of volumes and volume size such that the additional space that you requested is less than or equal to the available space in the extent pool. Ensure that you do not exceed the maximum quantity of volumes for the volume group when the quantity of volumes that you request is added to the current quantity of volumes in the volume group.

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.

Action

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 The following extent pools will be deleted: *VALUE_0* 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 These extent pools have volumes configured in them: *VALUE_1*. *VALUE_0* volumes will be deleted as part of the extent pool deletion process. Click Continue to delete the extent pools and volumes that are listed. Click Cancel to cancel the operation.

Explanation

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

Action

Click Continue to delete the extent pools and volumes that are listed in the message. Click 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.

Action

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_0* 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_0*.

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 These arrays and their associated ranks will be deleted: *VALUE_0* 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 OK to delete the arrays and their associated ranks. Select Cancel to cancel the operation.

CMUG00050W There are *VALUE_0* volumes that have storage configured on the following arrays: *VALUE_1*. 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.

Action

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. Arrays or ranks might have been deleted recently from the storage image, and DDM format tasks might be in progress.

Action

Check the state of the DDMs. Wait until all DDMs that have a state of Initializing change to a state of Normal, 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 *VOLUME_GROUPS* 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.

Action

Select a host attachment identifier from the table.

CMUG00069W These hosts will be deleted: *VALUE_0*. 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 management console.

Explanation

The DS Storage Manager is unable to connect to the specified management console. This might be because the specified IP address is incorrect, because the management console is not online, or because a network path is not available.

Action

Ensure that the specified IP address is correct, that the 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 management consoles.

Action

Enter two distinct IP addresses, and then resubmit the task.

CMUG00102E Select unique WPNs for ports *VALUE_0*.**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 WPNs 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_0*. 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 Real-time Manager.

Explanation

The Real-time 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 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 task that you have initiated opens the default enterprise file. Do not open any pages in the Simulated manager until the task has completed.

Explanation

Because there is a brief time period during this task when no configuration file is open, you must not open any pages in the Simulated manager until the task has completed.

Action

Do not open any pages in the Simulated manager until the task has completed.

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.

Action

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_0* . 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.

Action

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 = 10⁹ bytes). You can calculate the exact

number of 512 byte blocks as $\text{INT}(\text{INT}(\text{GB} \times 10^9 / 512) + 63) / 64 \times 64$. 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 = 10^9 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) 0.9 (0.8) 1.0 (0.9) 1.1 (1.0) 1.2 (1.1) 1.7 (1.6) 1.8 (1.7) 1.9 (1.8) 2.0 (1.9) 2.5 (2.3) 2.6 (2.4) 2.7 (2.5) 2.8 (2.6) 3.3 (3.1) 3.4 (3.2) 3.5 (3.3) 3.6 (3.4) 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) 6.1 (5.7) 6.7 (6.2) 6.8 (6.3) 6.9 (6.4) 7.0 (6.5) 7.5 (7.0) 7.6 (7.1) 7.7 (7.2) 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) 9.4 (8.8) 10.0 (9.3) 10.1 (9.4) 10.2 (9.5) 10.3 (9.6) 10.8 (10.1) 10.9 (10.2) 11.0 (10.2) 11.1 (10.3) 11.6 (10.8) 11.7 (10.9) 11.8 (11.0) 11.9 (11.1) 12.4 (11.5) 12.5 (11.6) 12.6 (11.7) 12.7 (11.8) 13.3 (12.4) 13.4 (12.5) 13.5 (12.6) 13.6 (12.7) 14.1 (13.1) 14.2 (13.2) 14.3 (13.3) 14.4 (13.4) 14.9 (13.9) 15.0 (14.0) 15.1 (14.1) 15.2 (14.2) 15.7 (14.6) 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) 17.7 (16.5) 18.2 (17.0) 18.3 (17.0) 18.4 (17.1) 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) 21.0 (19.6) 21.5 (20.0) 21.6 (20.1) 21.7 (20.2) 21.8 (20.3) 22.3 (20.8) 22.4 (20.9) 22.5 (21.0) 22.6 (21.0) 22.7 (21.1) 23.2 (21.6) 23.3 (21.7) 23.4 (21.8) 23.5 (21.9) 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) 28.2 (26.3) 28.3 (26.4) 28.4 (26.4) 28.9 (26.9) 29.0 (27.0) 29.1 (27.1) 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) 34.2 (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) 43.0 (40.0) 43.1 (40.1) 43.2 (40.2) 43.3 (40.3) 43.8 (40.8) 43.9 (40.9) 44.0 (41.0) 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) 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)

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(870.7) 935.0 (870.8) 935.1 (870.9) 935.2 (871.0) 935.7 (871.4) 935.8 (871.5) 935.9
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Action

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.

CMUG00126I The specified volume size will be rounded up to the next valid binary value: *VALUE_0* 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_0*. 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 management console, or the management console is unable to connect to a storage unit. Either condition might be the result of one of the following reasons:

- The management console IP address is incorrect.
- A network path is not available.
- The management console is not online.
- The storage unit is not online.

Action

Ensure that the management console IP address is correct, that the network is functioning, that the 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.

Action

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.

CMUG00141E You must select a storage type for FlashCopy storage when the quantity is non zero.

Explanation

You entered a nonzero value for FlashCopy storage. You must also select one of the following storage types from the drop-down list:

- FB only (fixed-block only)
- CKD only (count-key-data only)
- All storage

Action

Either change the FlashCopy storage value to zero, or select a storage type from the list. Then click Next.

CMUG00142E You must select a storage type for Remote Mirror and Copy storage when the quantity is non zero.

Explanation

You entered a nonzero value for Remote Mirror and Copy storage. You must also select one of the following storage types from the drop-down list:

- FB only (fixed-block only)
- CKD only (count-key-data only)
- All storage

Action

Either change the Remote Mirror and Copy storage value to zero, or select a storage type from the list. Then click Next.

CMUG00143E You cannot select a storage type for FlashCopy storage when the quantity is zero.

Explanation

You entered a zero value for FlashCopy storage. You cannot select a storage type from the drop-down list.

Action

Either change the FlashCopy storage value to a nonzero value, or deselect the storage type from the list. Then click Next.

CMUG00144E You cannot select a storage type for Remote Mirror and Copy storage when the quantity is zero.

Explanation

You entered a zero value for Remote Mirror and Copy storage. You cannot select a storage type from the drop-down list.

Action

Either change the Remote Mirror and Copy storage value to a nonzero value, or deselect the storage type from the list. Then click Next.

CMUG00145E The number of DDM packs that are assigned to any storage image must be equal to the number of DDM packs that are assigned to any other storage image on the storage unit, plus or minus 6.

Explanation

The quantity of selected DDM packs has assigned more or fewer DDM packs to the storage image than are permitted for a balanced assignment. The number of DDM packs that are assigned to a storage image must be within 6 DDM packs of the number of DDM packs that are assigned to any other storage image on the storage unit.

Action

Increase or reduce the number of DDM packs to assign, and then resubmit the task.

CMUG00146E Storage complex not found.

Explanation

The specified storage complex cannot be found. The storage complex might have been deleted or the network connection to the storage complex might have failed.

Action

Ensure that the specified storage complex exists, that it is online, and that a network connection to it is available. Then resubmit the task.

CMUG00147E Target storage unit not found.

Explanation

The specified storage unit cannot be found. The storage unit might have been deleted or the network connection to the storage unit might have failed.

Action

Ensure that the specified storage unit exists, that it is online, and that a network connection to it is available. Then resubmit the task.

CMUG00148E Unable to connect to the management console server.

Explanation

The management console might be unavailable, the network connection to the management console might have failed, or the management console server software might not be running.

Action

Ensure that the management console is online, that a network connection to the management console is available, and that the management console server network

interface software is running. Then resubmit the task.

CMUG00149E Configuration transfer error: One or more DDMs is not in a normal state.

Explanation

The configuration cannot be transferred because one or more disk drive modules is powered off or is not functioning properly.

Action

Follow recommended service procedures to check the status of the disk drive modules and to resolve any hardware problems. When all the DDMs report normal status, resubmit the task.

CMUG00150E Target storage image not found

Explanation

The specified storage image cannot be found. The storage image might have been deleted or the network connection to the storage image might have failed.

Action

Ensure that the specified storage image exists, that it is online, and that a network connection to it is available. Then resubmit the task.

CMUG00151E The configuration cannot be transferred successfully. The target storage image logical configuration has been altered by a separate task.

Explanation

A configuration transfer can take up to several hours to complete. Between the time that this configuration transfer began and the time that this error occurred, the target storage image configuration was altered by a task other than the current task. The changes that were made by the separate task make it impossible to complete the configuration transfer. If you resubmit the current task, the new configuration of the target storage image will be taken into account and the task will probably succeed.

Action

Either resume the current Apply Configuration task, or exit and submit a new Apply Configuration task.

CMUG00152E The configuration cannot be transferred successfully. The target storage image cannot be deleted because the states of some of its resources prevent its deletion.

Explanation

Some of the resources on the target storage image might have failed, might have been placed offline, or are in another state that does not permit deletion. For example, a disk drive module in a targeted array might have failed. The configuration cannot be transferred until these resources can be deleted.

It is also possible that temporary logical resources that were created on the target storage image during the transfer cannot be removed.

Action

1. Examine the target storage image for temporary resources that were created during the transfer and remove these resources.
2. Examine the target storage image for resources that cannot be deleted and take the recommended actions to place them in a normal state.
3. Either resume the current Apply Configuration task, or exit and submit a new Apply Configuration task.

CMUG00153E The configuration cannot be transferred successfully. One or more of the resources that are specified to be transferred already exists on the target storage image.

Explanation

One or more of the source storage image resources that are specified to be transferred already exists on the target storage image. These logical resources might be arrays, ranks, extent pools, volumes, volume groups, or logical control units. An existing resource on the target storage image cannot be overwritten or modified. Under normal circumstances, the configuration transfer should continue without modifying the existing resource and without indicating an error.

Action

Resubmit the task. If this error reoccurs, identify the duplicate resource and remove it from the target storage image, and then resubmit the task.

To examine the logical configuration of a storage image, use the Configure Storage - Main panels for the following components:

- Arrays
- Ranks
- Extent pools
- OS volumes
- Volume groups
- LCUs
- zSeries volumes

CMUG00155E The physical configuration of the target storage image is not compatible with the physical configuration of the source storage image.

Explanation

The target storage image contains resources that are not compatible with the source storage image. For example, the disk drive module capacity of each array site on the target storage image must be greater than or equal to the disk drive module capacity of the corresponding array site on the source storage image. Another example is host attachments that are specified on the source storage image that are not supported on the target storage image.

Action

Examine the target storage image for incompatible resources and take the recommended actions to replace them, or modify the source storage image configuration to ensure compatibility. Then resubmit the task.

CMUG00156W Volumes will be removed from the volume group. Hosts that are attached to this volume group will no longer have access to these volumes. Click Finish to remove the volumes. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to remove the volumes from the volume group. Hosts that are attached to the volume group will no longer have access to data on these volumes.

Action

Click Finish to remove the volumes. Click Cancel to cancel the operation.

CMUG00157W Data on the logical volume might have been lost. This operation can cause loss of access to the data on the selected volumes. Are you sure you want to continue? Click Continue to restore access to the volumes. Click Cancel to cancel the operation.

Explanation

You are being asked to confirm that you want to restore access to the volumes in the volume group.

Action

Click Continue to restore access to the volumes. Click Cancel to cancel the operation. If, after you restore access to the volumes, the data state of the volumes does not change to normal, pinned, or read-only, you must delete and reconfigure the volumes.

CMUG00158E Volume nickname cannot exceed 16 characters.**Explanation**

The volume nickname that is created by combining the specified prefix and suffix exceeds the maximum limit of 16 characters.

Action

Provide a prefix and suffix that when combined, do not exceed 16 characters and resubmit the task.

CMUG00159E Error writing the configuration to the target storage unit.**Explanation**

The configuration from the source storage unit could not be written to the target storage unit.

Some resources, such as arrays, ranks, extent pools, volumes, volume groups, or logical control units, are in a state that does not support changes. The resources can be located on the source storage unit or the target storage unit. The state of the logical resource might reflect a hardware resource that is in a failed state, such as a DDM.

Action

Use the DS Storage Manager to check the state of the logical resources of both the source storage unit and target storage unit. If necessary, perform any repair or replacement of bad logical or physical resources and resubmit the task.

CMUG00160E One or more logical resources are not supported for transfer to the target storage unit.**Explanation**

One or more of the logical resources that you are trying to transfer from the source storage unit to the target storage unit is not supported for transfer to the target storage unit.

Action

Read the Readme.txt file to determine which of the specified resources is not supported for transfer at this time. If there are unsupported logical resources, remove them from the source storage unit and resubmit the task.

CMUG00161E Transfer failed for an unknown reason.**Explanation**

The transfer from the source storage unit to the target storage unit failed for an unknown reason.

Action

Check that the logical and physical resources are all in good states, such as Normal. If there are any resources that are in bad states, replace or repair those resources.

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

CMUG00162E Error reading the configuration on the source storage unit.

Explanation

The configuration from the source storage unit cannot be read during the transfer process to the target storage unit.

Some resources, such as arrays, ranks, extent pools, volumes, volume groups, or logical control units, are in a state that does not support changes. The state of the logical resource might reflect a hardware resource that is in a failed state, such as a DDM.

Action

Use the DS Storage Manager to check the state of the logical resources of both the source storage unit and the target storage unit. If necessary, perform any repair or replacement of bad logical or physical resources and resubmit the task.

CMUG00163E You cannot create additional logical subsystems. No addresses are available.

Explanation

All logical subsystem addresses are in use by other logical subsystems. You cannot create any additional logical subsystems.

Action

Use one of the existing logical subsystems or delete an existing logical subsystem before you can resubmit the task to create a new logical subsystem.

CMUG00164W *VALUE_1* of the *VALUE_2* selected volumes are assigned to volume groups and will be deleted. Are you sure you want to delete these volumes?

Explanation

You are being asked to confirm that you want to delete the specified volumes. Some of these volumes are assigned to preexisting volume groups. Selecting Ok will delete these volumes from the volume groups.

Action

Click Ok to continue the operation and to delete all of the specified volumes. Click Cancel to cancel the operation without deleting the volumes. Click View to view the list of volumes that are assigned to volume groups.

CMUG00165E You cannot attach iSeries hosts to volume groups that have more than 32 volumes.

Explanation

You have chosen an iSeries host type for this volume group. A single iSeries host can maintain a maximum of 32 volumes per host.

Action

Reduce the number of volumes in the volume group to 32 or fewer. If you must use more than 32 volumes with an iSeries host type, create an additional iSeries host attachment for each set of 32 volumes.

CMUG00166W The following resources will be deleted on target storage unit *TARGET* if you continue to apply the current configuration: *CONFIGURATION* Click Resume to delete the resources and apply the current configuration.

Explanation

You are being asked to confirm that you want to apply the current configuration to the target storage unit. Some of the resources from the online target storage unit do not appear in the offline source storage unit. The current configuration will delete the specified resources on the target storage unit.

Action

If you do not want to delete the specified resources, create the missing resources in the offline storage unit configuration, and resubmit the task. Otherwise, click Resume to apply the configuration.

CMUG00167W The following resources will be deleted on target storage image *TARGET* if you continue to apply the current configuration: *CONFIGURATION* Click Resume to delete the resources and apply the current configuration.

Explanation

You are being asked to confirm that you want to apply the current configuration to the target storage image. Some of the resources from the online target storage image do not appear in the offline source storage image. The current configuration will delete the specified resources on the target storage image.

Action

If you do not want to delete the specified resources, create the missing resources in the offline source storage image configuration, and resubmit the task. Click Resume to apply the configuration.

CMUG00168E The selected storage unit is in the Attention state. You cannot continue applying the configuration. Contact IBM technical support for assistance.

Explanation

You cannot apply a configuration to a target storage unit that is in the Attention state. You can view a detailed status of the selected storage unit in the Properties page.

Action

Contact IBM technical support for assistance.

CMUG00169E The selected storage image is in the Attention state. You cannot continue applying the configuration. Contact IBM technical support for assistance.

Explanation

You cannot apply a configuration to a target storage image that is in the Attention state. You can view a detailed status of the selected storage image in the Properties page.

Action

Contact IBM technical support for assistance.

CMUG00170W *VOLUME_GROUPS* volume groups will be deleted. *VOLUMES* volumes are assigned to the selected volume groups and will be unassigned. Select Ok to delete the volume groups. Select Cancel to cancel the operation.

Explanation

You are requesting to delete volume groups that have volumes that are assigned to them. Any volumes that are currently assigned to the specified volume groups will be unassigned after those volume groups are deleted.

Action

Click Ok to continue the operation and delete all of the volume groups. Click Cancel to cancel the operation without deleting the volume groups.

CMUG00171E *SOURCE* The Open Environment License value of the selected target storage image does not allow the transfer of this simulated configuration.

Explanation

The amount of storage that you can configure on a storage image is determined by the Open Environment License (OEL) value that you indicated when you initially entered the activation code. The amount of storage that you have configured in the source storage image exceeds the OEL storage amount of the target storage image. The amount of configured storage is determined by the sum of the storage capacities of the ranks that are created.

Action

Perform one of the following two actions:

- Reduce the amount of storage that is configured in the source storage image. In the simulated configuration, remove some of the created ranks until the sum of the existing rank capacities becomes smaller than the OEL value on the target storage image.
- Obtain and apply new activation codes to the target storage image that allow the necessary increased OEL values. Use the Apply Activation Codes page to enter the new activation codes for the target storage image.

CMUG00172E *SOURCE* The Open Environment License value of the selected target storage unit does not allow the transfer of this simulated configuration.

Explanation

The amount of storage that you can configure on a storage unit is determined by the Open Environment License (OEL) value that you indicated when you initially entered the activation code. The amount of storage that you have configured in the source storage unit exceeds the OEL storage amount of the target storage unit. The amount of configured storage is determined by the sum of the storage capacities of the ranks that are created.

Action

Perform one of the following two actions:

- Reduce the amount of storage that is configured in the source storage unit. In the simulated configuration, remove some of the created ranks until the sum of the existing rank capacities becomes smaller than the OEL value on the target storage unit.
- Obtain and apply new activation codes to the target storage unit that allow the necessary increased OEL values. Use the Apply Activation Codes page to enter the new activation codes for the target storage unit.

CMUG00173W The new AS/400 serial number will take effect after the next initialization. Are you sure you want to change the serial number to the new one? Click Continue to change the old serial number to the new serial number. Click Cancel to cancel the operation.

Explanation

You are attempting to change the AS/400 serial number. This serial number does not change until after the next initialization process is complete.

Action

Click Continue to continue the operation and change the old serial number to the new serial number after the next initialization. Click Cancel to cancel the operation without changing the serial number.

CMUG00174W After the selected arrays are deleted, one or more extent pools to which the arrays were assigned are not going to have an assigned array. Do you want to delete the following extent pools as well as the arrays? *EXTENTS*

Explanation

Because you have selected to delete at least one array, at least one extent pool is not going to have an array that is assigned to it. The extent pools that are going to be without an assigned array are listed in the message.

Action

Select Yes if you want to delete the arrays and the extent pools that are no longer going to have an assigned array because you have deleted the selected arrays.

Select No if you want to delete only the selected arrays and their corresponding ranks and volumes. The extent pools are not going to be deleted.

Select Cancel if you want cancel the entire operation. If you select Cancel neither, the arrays nor the extent pools are going to be deleted.

CMUG00175E The number of volumes that you have requested exceeds the maximum number of volumes that you can create. You can create a maximum of *VOLUMES* volumes.

Explanation

A volume must use at least one extent, but can use more than one extent. Therefore, the number of volumes that you can create cannot exceed the maximum number of extents that are available in the selected extent pool.

Action

Reduce the number of volumes that you are requesting to a number that is equal to or less than the number of available extents in the selected extent pool.

CMUG00176W The selected offline storage unit is not logically configured. If you apply the selected configuration only the host information transfers to the online storage unit. Are you sure that you want to apply only the host information to the online storage unit? Click Continue if you want to apply the host information from the offline storage unit to the online storage unit. Click Cancel to cancel the operation.

Explanation

You are attempting to apply a configuration from an offline storage image that is not logically configured. If you continue, only the host information is applied to the online storage unit.

Action

Select Continue to apply the offline storage unit host information that you selected to the online storage unit. Select Cancel to cancel the operation without applying the offline storage unit host information that you selected.

If you want to apply a logical storage configuration to the online storage unit, use the Configure Storage pages in the Simulated Manager to create a logical configuration, and then resubmit the task with the new offline logical storage configuration.

CMUG00177W The selected offline storage image is not logically configured. If you apply the selected configuration only the host information transfers to the online storage image. Are you sure you want to apply only the host information to the online storage image? Click Continue if you want to apply the host information from the offline storage image to the online storage image. Click Cancel to cancel the operation.

Explanation

You are attempting to apply a configuration from an offline storage image that is not logically configured. If you continue only the host information is applied to the online storage image.

Action

Select Continue to apply the offline storage image host information that you selected to the online storage image. Select Cancel to cancel the operation without applying the offline storage image host information that you selected.

If you want to apply a logical storage configuration to the online storage image, use the Configure Storage pages in the Simulated Manager to create a logical configuration, and then resubmit the task with the new offline logical storage configuration.

CMUG00178E *STORAGE_IMAGES* **The storage images are involved in long running tasks that are currently running and cannot be used in this operation.**

Explanation

You have selected to perform an operation on a resource that contains a storage image that is currently involved in a long running task that blocks use of the storage image until the completion of the task. You cannot run any of the Configure storage tasks, or any of the following tasks on a resource that contains a storage image that is involved in a long running task:

- Remove the resource from storage complex
- Remove the resource from list (storage complex)
- Delete the storage unit (on a storage unit that contains a storage image that is involved in a long running task)
- Modify the storage unit (on a storage unit that contains a storage image that is involved in a long running task)
- Delete the storage complex (on a storage complex that contains a storage image that is involved in a long running task)
- Create the storage complex (if the selected storage unit contains storage images that are involved in a long running task)
- Modify the storage complex (if the selected storage unit contains storage images that are involved in a long running task)
- Apply the configuration

Action

Unselect the storage images that are involved in long running tasks, or unselect the storage complexes or storage units that contain storage images that are involved in long running tasks, and resubmit the task.

CMUG00179E *STORAGE_UNITS* **The storage units are involved in long running tasks that are currently running and cannot be used in this operation.**

Explanation

You have selected to perform an operation on a storage unit that is currently involved in a long running task that blocks use of the storage unit until the completion of the task. You cannot run any of the Configure storage tasks, or any of the following tasks on a storage unit that is involved in a long running task:

- Remove the resource from storage complex
- Remove the resource from list (storage complex)
- Delete the storage unit
- Modify the storage unit

- Delete the storage complex (on a storage complex that contains the unavailable storage unit)
- Create the storage complex (if the selected storage units are unavailable)
- Modify the storage complex (if the selected storage units are unavailable)
- Apply the configuration

Action

Unselect the storage units that are involved in long running tasks, or unselect the storage complexes that contain storage units that are involved in long running tasks, and resubmit the task.

CMUG00180W The following hosts will be deleted: *HOSTS*. The following anonymous ESCON and FICON hosts will not be deleted: *ANONYMOUS_HOSTS*. Select Continue to delete the hosts. Select Cancel to cancel the operation.

Explanation

You have selected to delete one or more ESCON and FICON anonymous hosts. You cannot delete anonymous hosts.

Action

Select Continue if you want to delete all selected hosts except for the anonymous hosts. Select Cancel if you want to cancel the operation without deleting any of the selected hosts, anonymous or otherwise.

CMUG00181I The following anonymous ESCON and FICON hosts cannot be deleted: *ANONYMOUS_HOSTS*. Select Cancel to cancel the operation.

Explanation

You have selected to delete one or more anonymous ESCON or FICON hosts. These hosts cannot be deleted.

Action

Select Cancel to cancel the operation without deleting any hosts.

CMUG00182W This action can cause one or more volumes to become isolated for some associated host systems. Some host types might be prevented from accessing other volumes from the same volume group. Click Ok to delete the volumes. Click Cancel to cancel the operation.

Explanation

You have attempted to delete volumes from the volume group. This can cause volumes to become isolated for some open systems hosts because the sequence becomes corrupted and access can be lost to volumes that are listed in the volume groups after the volumes that you are deleting. If you continue and volumes

become isolated, you can use the volume group compression tool to recover the isolated volumes.

Action

Select Ok if you want to delete the volumes. Select Cancel to cancel the operation without deleting any volumes.

CMUG00183W The specified volumes will be removed from the volume groups. Any associated hosts will immediately lose access to the files that are on the specified volumes. This action can also cause one or more volumes to become isolated for some associated host systems. Some host types might be prevented from accessing other volumes from the same volume group. Click Continue to remove the volumes. Click Cancel to cancel the operation.

Explanation

You have attempted to remove volumes from the volume group. Any hosts that are associated with the volumes that you are removing will immediately lose access to the files that are stored on the specified volumes.

Removing volumes from the volume group can cause volumes to become isolated for some open systems hosts because the sequence becomes corrupted and access can be lost to volumes that are listed in the volume group after the volumes that you are removing. If you continue and volumes become isolated, you can use the volume group compression tool to recover the isolated volumes.

Action

Select Continue if you want to remove the volumes. Select Cancel to cancel the operation without removing any volumes.

CMUG00184W This operation will compress the volume group. Ensure that your hosts are not currently accessing this volume group. After this operation completes, reboot your host systems or use your host systems to reidentify the volumes.

Explanation

Compressing the volume group allows some open systems hosts to regain access to volumes that were listed in the volume group after volumes that were deleted.

Action

Select Continue if you want to compress the volume group. Select Cancel to cancel the operation without compressing the volume group. You must either reboot your host systems or use your host systems to reidentify the volumes in the volume group after you complete this task.

CMUG00185E Unable to attach host. No volume group is selected.**Explanation**

You must select a volume group when you are attaching a host system to the storage unit.

Action

Select a volume group from the list of available volume groups, and resubmit the task.

CMUG00186W This action deletes the last rank in the system. Continuing with this request also deletes all remaining volume groups, LCUs, LSSs, and attached hosts. Are you sure you want to continue with this action? Select Continue to delete the final rank. Select Cancel to cancel the operation without deleting any of the logical configuration items.**Explanation**

You have attempted to delete the final rank in the system. If you delete this rank you also remove all of the remaining logical configuration objects, such as volume groups, logical control units, logical subsystems, and currently attached hosts.

Action

Select Continue to continue deleting the final rank and the remaining logical configuration items. Select Cancel to cancel the operation without deleting the final rank or the remaining logical configuration items.

CMUG00187W You have selected the Activate button on the Apply Firmware page. The current installed firmware level is *CURRENT_FIRMWARE_LEVEL*. Are you sure that you want to downgrade the firmware to level *DOWNGRADE_TO_FIRMWARE_LEVEL*? Click Yes to activate the firmware level or click No to cancel the operation and return to the Apply Firmware page.**Explanation**

You have selected to apply a firmware level that is older than the current installed firmware level. You are being asked to confirm that you want to downgrade the firmware level to a previous version.

Action

Click Yes to downgrade the firmware level or click No to cancel the operation and return to the Apply Firmware page.

CMUG00188E You are attempting to apply an offline storage unit configuration to an online storage unit. The selected offline storage unit is not logically configured and has no host configured.

Explanation

The offline storage unit that you selected must have a logical storage configuration or at least one host that is configured.

Action

If you want to apply a logical configuration to the online storage unit, use the Configure Storage pages in the Simulated Manager to create a logical configuration, or configure at least one host for the offline storage unit that you selected. Resubmit the task to apply the new offline logical storage unit configuration to the online storage unit.

CMUG00189E You are attempting to apply an offline storage image configuration to an online storage image. The selected offline storage image is not logically configured and has no host configured.

Explanation

The offline storage image that you selected must have a logical storage configuration or at least one host that is configured.

Action

If you want to apply a logical configuration to the online storage image, use the Configure Storage pages in the Simulated Manager to create a logical configuration or configure at least one host for the offline storage image that you selected. Resubmit the task to apply the new offline logical storage image configuration to the online storage image.

CMUG00190E *STORAGE_UNIT* storage unit is not available.

Explanation

The displayed storage unit that you are attempting to use is not available. Ensure that the status of the storage unit is Normal.

Action

Select an available storage unit and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUG00192E Ethernet Port *FIRST_PORT* and Ethernet Port *SECOND_PORT* on Server (system processor card) *SERVER* are both located on the same network. Two external Ethernet ports that are located on the same server cannot be configured to the same network.

Explanation

Unpredictable behavior can occur if two external Ethernet ports that are located on the same server are configured to the same network. This configuration is not supported.

Action

Modify the network settings for one of the specified external Ethernet ports so that the two external Ethernet ports are configured to different networks.

CMUG00193W You have not configured an external Ethernet port on Server (system processor card) *SERVER*. Configuring at least one external Ethernet port on each server provides redundancy. Click Continue to complete the operation, or click Cancel to cancel the operation and return to the Configure Ethernet Port panel.

Explanation

If Ethernet access is lost to one of the servers, configuring at least one external Ethernet port on each server allows continued Ethernet access to the storage image through the remaining server. If one or both external Ethernet ports of only one server are configured and no external Ethernet port is configured on the other server, then loss of Ethernet access to the configured server results in loss of Ethernet access to the storage image.

Action

Select Continue to complete the operation without configuring any external Ethernet ports on the specified server. Select Cancel to cancel the operation and return to the Configure Ethernet Port panel.

CMUG00194W Are you sure you want to disable Server (system processor card) *SERVER* Ethernet Port *PORT*? Click Yes to disable the external Ethernet port and take it offline, or click No to cancel the operation and return to the Configure Ethernet Port panel.

Explanation

If you uncheck the Enable port check box to disable the external Ethernet port and take it offline, the IP address for the external Ethernet port reverts to the factory default of 0.0.0.0 and all other definitions remain unchanged.

Action

Select Yes to disable the selected external Ethernet port. Select No to cancel the operation and return to the Configure Ethernet Port panel.

CMUG00195W Neither Server (system processor card) *FIRST_SERVER* nor Server *SECOND_SERVER* has an external Ethernet port that is configured. Configuring at least one external Ethernet port on each server provides redundancy. Click Continue to complete the operation without configuring any external Ethernet ports, or click Cancel to cancel the operation and return to the Configure Ethernet Port panel.

Explanation

If there are no external Ethernet ports that are configured on either server, the storage image cannot be accessed by the external Ethernet network.

Action

Select Continue to complete the operation without configuring an external Ethernet port on either of the specified servers. Select Cancel to cancel the operation and return to the Configure Ethernet Port panel.

CMUG00196E Volume *VOLUME* is already a member of the volume group.

Explanation

A volume cannot be added to a volume group if the volume is already a member of the volume group.

Action

Select a volume that is not already a member of the volume group that you selected on the Volume groups page, and resubmit the task.

CMUG00197E Volume *VOLUME* does not exist.

Explanation

You must select an existing volume if you want to add a volume to a volume group.

Action

Select an existing volume, and resubmit the task.

CMUG00198E Volume *VOLUME* cannot be added to the volume group because the volume has a volume type that is not supported by the host type of the volume group.

Explanation

You are attempting to add a volume to a volume group with a specific host type. You must choose a volume type that is supported by the host type that you chose for the volume group.

Action

Select a volume that has a volume type that is supported by the host type of the volume group that you selected on the Volume groups panel.

CMUG00199W Volume *VOLUME* is already a member of another volume group. Are you sure that you want to add the specified volume to the volume group? Click Continue to add the specified volume to the volume group or click Cancel to cancel the operation and return to the Show LUN Map page.

Explanation

If you click Continue, the specified volume is added to the volume group that you selected on the Volume groups panel. The specified volume remains as a member of any volume group to which it is currently configured. The volume might be accessed by the host systems that are associated with each of the volume groups to which the volume is assigned.

Action

Select Continue to add the specified volume to the volume group or select Cancel to cancel the operation and return to the Show Lun Map page.

CMUG00202E The storage unit has been modified by another task or user. Close the Modify storage unit page and then restart the task.

Explanation

The displayed storage unit information is no longer accurate because another task or user has modified it.

Action

Close the Modify storage unit page. Restart the Modify storage unit task to complete the task.

CMUG00203E Another task or user has deleted the storage unit. Close the Modify storage unit page.

Explanation

You cannot continue the Modify storage unit task, because the storage unit no longer exists. Another task or user has deleted the storage unit.

Action

Close the Modify storage unit page.

CMUG00204W You can open only one configuration file at a time. The current configuration file is temporary and you have not saved it. Click Ok to save the current configuration file, or click Continue to proceed without saving the current configuration file.

Explanation

If you click Continue, the current configuration file is removed.

Action

Click Ok to save the current configuration file, or click Continue to proceed without saving the current configuration file.

CMUG00205I The task that you have initiated closes the current configuration file and opens another configuration file. Do not open any pages in the Simulated manager until the entire operation has completed.

Explanation

Because there is a brief time period during this operation when no configuration file is open, you must not open any pages in the Simulated manager until the entire operation has completed.

Action

Do not open any pages in the Simulated manager until the entire operation has completed.

CMUG00206E The task has failed because the nickname that you have entered for the storage complex already exists.

Explanation

You cannot use the same nickname for more than one storage complex. The nickname that you have entered refers to a different storage complex.

Action

Enter a nickname that is not currently defined and resubmit the task.

CMUG00207E You have specified a quantity of volume groups that exceeds *QUANTITY_OF_STORAGE_IMAGES_SELECTED*, which is the quantity of storage images that are defined to the storage complex that you have selected.

Explanation

You can assign a single SCSI host port worldwide port name (WWPN) to only one volume group per storage image, unless the host type is Sun servers. For any host

type that is not Sun servers, you must define an additional WWPN for every additional volume group that you plan to assign. For Sun servers host type, each volume group that you assign to the same host port WWPN must connect through a different storage image I/O port.

Action

Ensure that you have selected the correct host type. If the correct host type is not Sun servers, enter a quantity of volume groups that does not exceed the quantity of storage images defined to the storage complex that you have selected, and resubmit the task.

CMUG00210W The volumes that you are creating cannot be used by Copy Services functions until the new volume format operation completes. The format operation for the new volumes is estimated to complete in approximately *VALUE_0* minutes.

Explanation

New volumes are formatted immediately after they are created. The format operation must complete successfully before a volume can be configured in a Copy Services relationship.

Action

Wait until the format operation for the new volumes completes successfully before you attempt to configure the new volumes in Copy Services relationships.

CMUG00211W Another task is opening a configuration file. Close the current page and retry the task that you are attempting after the other task has completed successfully.

Explanation

The simulated manager does not support opening more than one configuration file at the same time. You cannot open another page in the simulated manager until the task that is opening a configuration file has completed successfully.

Action

Close the current page and retry the task that you are attempting after the other task has completed successfully.

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.

Action

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. Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.**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. Contact IBM technical support for assistance.**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_0* 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.

CMUS00035W Resetting the reservation on the secondary volume might cause host I/O targeting that volume to fail. Select Continue to reset the reservation. Select Cancel to cancel the operation.**Explanation**

You have selected the option that resets the reservation on the secondary volume. Host I/O that is targeting the secondary volume might fail after the reservation is reset.

Action

Select Continue to reset the reservation on the secondary volume. Select Cancel to cancel the operation.

CMUS00036I You have selected either the Reset reservation (Open Systems) option or the Create relationship even if target is online to a host (zSeries) option. Each of these options clears host access on the secondary remote mirror and copy device when the Create relationship operation completes. Any data previously written to these secondary volumes is lost, and any active host I/O to these volumes fails.**Explanation**

A host system makes a reservation on a volume to prevent unintended access to that volume by another source. Each of these options removes that reservation to allow the primary remote mirror and copy device to write to the volume on the

secondary remote mirror and copy device.

Action

None.

Chapter 5. DS Storage Manager console messages

Console messages

These messages are issued by the DS Storage Manager.

CMUL0000E 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.

CMUL0001E 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.

CMUL0002E 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.

CMUL0003E 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_0*. 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_0* 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_0*. 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_0*. 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.

Action

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_0*. 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_0*. 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_0* 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_0*. 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.

CMUL00030I Please wait...

Explanation

Please wait while the page loads. The graphical user interface is gathering the data that is needed to display the page.

Action

The page should automatically refresh for you after it has finished loading.

CMUL00031E Message *MESSAGE* is not defined. Contact IBM technical support for assistance.

Explanation

The text for the specified message is missing.

Action

Contact IBM technical support for assistance.

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 task.

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 management console. The 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 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. Verify the state of the storage unit and resubmit the task after the storage unit has returned to a Normal status.

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 management console has been interrupted.
- The management console is busy.
- The storage unit has an Unavailable status.
- The management console is not online.
- The connection from the 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 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 (with Normal status). If the management

console is connected to an online storage unit, 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, the storage unit has a Normal status, 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 management console has been interrupted.
- The management console is busy.
- The management console is not online.
- The connection from the 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 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 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.

CMUR00018I 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 the resource is a processor card, the storage unit becomes unavailable after the operation completes. 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. To view the current progress, you must manually click the Refresh button on the Status tab of the page. If the resource is a processor card, you cannot perform any further actions on the processor card until the storage unit enters a Normal status. After the operation completes, you must verify that the status of the storage unit is Normal before you issue another command on the processor card.

Action

Click Continue to take the resource offline. Click Cancel to cancel the operation.

CMUR00021E *VALUE_0* Operation unsuccessful: The selected resource is not offline.

Explanation

No error is reported from the storage unit microcode in response to the task, but the selected resource is not offline.

Action

Click the Refresh button on the Status tab to determine the current state of the selected resource. If the resource is in a state that can be changed to offline, resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUR00022E The peer management console *IP_ADDRESS* for the selected storage complex is unavailable. No logs were gathered.

Explanation

Either the peer management console for the storage complex that you selected is not functioning or an error has occurred during the file export process. No audit logs were gathered from the peer management console.

Action

Ensure that the peer management console is operational and resubmit the task.

CMUR00023E The selected storage complex cannot be accessed. No logs were gathered.

Explanation

You have attempted to gather audit logs from a storage complex that cannot be accessed. No audit logs were gathered.

Action

Check the storage complex properties to ensure that the storage complex is accessible, and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUR00024W A disk drive module is formatted immediately when you bring it online. The disk drive module format task deletes all data on the disk drive module. This operation takes a long time to complete. If you proceed, you must click the Refresh button on the Status tab of the Properties page to see the latest data. Click Continue to bring the disk drive module online and format it, or click Cancel to cancel the operation.

Explanation

When you bring the disk drive module online, it is formatted immediately. Formatting the disk drive module deletes all data that is on the disk drive module. To view the current progress, you must click the Refresh button on the Status tab of the Properties page.

Action

Click Continue to bring the disk drive module online and format it, or click Cancel to cancel the operation without formatting the disk drive module.

CMUR00025W If you take a disk drive module offline, it is formatted when you bring it back online. The disk drive module format task deletes all data on the disk drive module. The operations that take the disk drive module offline and online take a long time to complete. If you proceed, you must click the Refresh button on the Status tab of the Properties page to see the latest data. Click Continue to take the disk drive module offline or click Cancel to cancel the operation.

Explanation

The data remains on a disk drive module when you take it offline. However, when you bring the disk drive module back online, it is formatted immediately and the format process deletes all data that is on the disk drive module. To view the current progress, you must click the Refresh button on the Status tab of the Properties page.

Action

Click Continue to take the disk drive module offline, or 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 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. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00002E *SOURCE* Internal error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00003E *SOURCE* Configuration connection error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00004E *SOURCE* Configuration connection error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00005E *SOURCE* Internal error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal Copy Services failure.

Action

Contact IBM technical support for assistance.

CMUN00006E *SOURCE* Internal error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00007E *SOURCE* Mismatched Jar file

Explanation

The 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 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 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 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server detects an internal error that occurs during a resource query.

Action

Contact IBM technical support for assistance.

CMUN00013E *SOURCE* Resource not found

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN00015E *SOURCE* Command execution timeout

Explanation

The 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 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 management console server reports that you are not authorized to perform this operation.

Action

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 management console server**Explanation**

Your client software cannot connect to the 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 management console is online. Ensure that you specify the management console IP addresses correctly. Ensure that other connections do not already exist.

CMUN00019E SOURCE Unknown configuration error. Contact IBM technical support for assistance.**Explanation**

The management console server detects an unknown internal error that occurs during resource configuration.

Action

Contact IBM technical support for assistance.

CMUN00020E SOURCE Unknown error. Contact IBM technical support for assistance.**Explanation**

The management console server detects an unknown internal error.

Action

Contact IBM technical support for assistance.

CMUN00021E *SOURCE* **Unknown management console server internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an unknown internal error.

Action

Contact IBM technical support for assistance.

CMUN00022E *SOURCE* **The specified operation is unsupported.**

Explanation

The 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 management console server software and the client. Verify that you have installed licensed machine code that supports the operation.

CMUN01000E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN01001E *SOURCE* **Operation failure: retrieving rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN01002E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The 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.

Action

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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02005E *RANK* **Unable to assign the rank to the extent pool. The rank is already assigned to another extent pool.**

Explanation

You have selected to assign a previously assigned rank to the specified extent pool. You cannot assign ranks if they are assigned to other extent pools. You can assign a rank to only one extent pool.

Action

Select a different rank to assign to the extent pool and resubmit the task.

CMUN02006E *SOURCE* **Unable to query rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02007E *SOURCE* **Unable to query rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02008E *SOURCE* **Unable to query logical volume. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02009E *SOURCE* **Unable to create array. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02010E *SOURCE* **Unable to create array. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 an 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

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 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.

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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

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 parameter**

Explanation

You specified 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 value**

Explanation

The value that you specified for the extended long busy time parameter 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02030E SOURCE Unable to repair array. Contact IBM technical support for assistance.

Explanation

The 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 management console server reports a storage unit microcode-level error. The operation cannot be completed because previously stipulated changes have not yet been applied.

Action

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. Contact IBM technical support for assistance.****Explanation**

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02033E *SOURCE* **Error: The logical volume has been deleted, but the logical subsystem deletion fails. Contact IBM technical support for assistance.****Explanation**

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02034E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.****Explanation**

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02035E *SOURCE* Unable to delete logical volume. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02036E *SOURCE* Unable to delete array. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02037E *SOURCE* Unable to delete array. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02038E *SOURCE* Unable to delete array. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02039E *SOURCE* Unable to delete array. Contact IBM technical support for assistance.

Explanation

The 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 must be in an unassigned state.**

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. If you have already unassigned an array, it will enter an unavailable state, where it cannot be deleted, before it enters an unassigned state.

Action

Delete the ranks on the array, wait for the array to become unassigned, 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02046E *SOURCE* **Operation failure: unable to allocate memory. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02047E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02048E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02050E *SOURCE* Unable to repair array. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02051E *SOURCE* Unable to repair array. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

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. Contact IBM technical support for assistance.

Explanation

The 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 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.

CMUN02056E SOURCE Operation failure: unable to allocate memory

Explanation

The 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 not in the unassigned state.

Explanation

The rank must be in the unassigned state before it can be assigned. This error occurs most frequently when configuration of a rank has been initiated, but has not yet completed.

Action

If the rank is in configuring state, wait until the rank status is changed to unassigned, and then resubmit the task. If the rank is in any other state, take the necessary steps to place it in the unassigned state, and then resubmit the task.

CMUN02058E *SOURCE* **Unable to assign rank to extent pool. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02060E *SOURCE* **Unable to create extent pool. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02061E *SOURCE* **Create logical subsystem failure. Contact IBM technical support for assistance.**

Explanation

The 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 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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**

Explanation

The 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.

Action

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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02076E *SOURCE* Rank creation cannot complete. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02077E *SOURCE* Operation failure: addition. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02078E *SOURCE* Failed to initialize LPAR. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02079E *SOURCE* Operation failure. Contact IBM technical support for assistance.

Explanation

The 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 has been created.**

Explanation

The rank cannot be created because the maximum allowed number of ranks has 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02083E *SOURCE* **Extent pool operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02084E *SOURCE* **Unable to delete extent pool. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02085E *SOURCE* **Unable to delete extent pool. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02086E *SOURCE* **Unable to delete logical volume. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02087E *SOURCE* **Unable to query rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02088E *SOURCE* **Unable to query rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02089E *SOURCE* **Failed to initialize LPAR. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02090E *SOURCE* LPAR startup error. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02091E *SOURCE* Failed to initialize LPAR. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02092E *SOURCE* Rank creation cannot complete. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02093E *SOURCE* Unable to create logical volume. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02094E *SOURCE* Failed to initialize LPAR. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02098E *SOURCE* Unable to create logical volume. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02099E *SOURCE* **Unable to create volume group. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02100E *SOURCE* **Volume group operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02101E *SOURCE* **Unable to query volume group. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02102E *SOURCE* **Unable to delete logical volume. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02104E *SOURCE* **Unable to assign volume to volume group. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02107E *SOURCE* **Unable to delete volume group. Contact IBM technical support for assistance.**

Explanation

The 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.

Action

Specify a different volume group, and then resubmit the task.

CMUN02109E SOURCE Unable to modify SCSI host port. Contact IBM technical support for assistance.**Explanation**

The 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 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 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02126E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02127E *SOURCE* **Unable to modify volume group. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02129E *SOURCE* **Unable to open a session. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02130E *SOURCE* **Unable to open a session. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02131E *SOURCE* **Internal database overwrite failure: The database exists and overwrite is off. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 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. Contact IBM technical support for assistance.****Explanation**

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02135E *SOURCE* **Volume group query failure. Contact IBM technical support for assistance.****Explanation**

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02139E *SOURCE* **Unable to create rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02140E *SOURCE* **Unable to create rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02141E *SOURCE* **The creation of the rank did not complete due to a device adapter failure.**

Explanation

The creation of the rank did not complete successfully because of an error with a device adapter on the storage unit.

Action

Check the operation of the device adapters and retry the operation. If the problem persists, contact IBM technical support for assistance.

CMUN02142E *SOURCE* Rank creation did not complete. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02143E *SOURCE* Unable to create rank. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02144E *SOURCE* Rank creation has failed while collecting resource information.

Explanation

There might be insufficient resources in the array site to create a rank.

Action

Check for error log entries that refer to disk drive modules in the array site and perform the recommended service action. Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02145E *SOURCE* Unable to create rank. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02146E *SOURCE* Rank creation failure: server unavailable. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02147E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

Explanation

The task must be invoked against a rank in the repairing_formatted state. The rank is not in the repairing_formatted state.

Action

Contact IBM technical support for assistance.

CMUN02150E *SOURCE* **Unable to delete rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02151E *SOURCE* **Unable to delete rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02152E *SOURCE* **Rank operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02153E *SOURCE* **Rank operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02154E *SOURCE* **Rank operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02155E *SOURCE* **Rank operation failure: device adapter error**

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02157E SOURCE Unable to reconfigure rank. Contact IBM technical support for assistance.

Explanation

The 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 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02161E *SOURCE* Unable to release rank. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02162E *SOURCE* Unable to reserve rank. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02163E *SOURCE* Rank operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02164E *SOURCE* Rank operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02165E SOURCE Unable to unassign rank. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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.

Action

Create at least one rank and volume, and then resubmit the task.

CMUN02178E *SOURCE* **Unable to reset Copy Services settings on logical subsystems. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02183E *SOURCE* **Unable to modify SCSI host port. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02192E *SOURCE* **Unable to query rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02193E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02196E *SOURCE* **SCSI host port operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

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 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02200E SOURCE Unable to query volume groups. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02203E *SOURCE* **Unable to create, modify, or delete volume group: version update. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02204E *SOURCE* **Volume group query failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02205E *SOURCE* **Rank operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02211E *SOURCE* **Unable to delete volume group. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02216E *SOURCE* **Unable to modify volume group. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02217E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02218E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The 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 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 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 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. No ranks exist. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02223E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

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 management console ID. Contact IBM technical support for assistance.**

Explanation

The 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).

Action

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. Contact IBM technical support for assistance.****Explanation**

The 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. Contact IBM technical support for assistance.****Explanation**

The 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 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 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 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 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 has 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02272E *SOURCE* **SCSI host port operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

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. Contact IBM technical support for assistance.**Explanation**

The 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.

Action

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. Contact IBM technical support for assistance.****Explanation**

The 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.

Action

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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02294E *SOURCE* **Unable to delete logical volume. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02295E *SOURCE* **Unable to delete logical volume. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02296E *SOURCE* **Unable to delete logical volume.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Resubmit the deletion task. If the problem persists, 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.

Action

Specify a requested capacity, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02300E *SOURCE* **Rank operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02301E *SOURCE* Rank operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02302E *SOURCE* Rank operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02303E *SOURCE* Rank operation failure. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

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 the logical subsystem (LSS).

Explanation

The management console server reports a storage unit microcode-level error.

Action

Ensure that the LSS is correct and that it does not already contain the maximum number of logical volumes. If the problem persists, contact IBM technical support for assistance.

CMUN02311E *SOURCE* Unable to create logical subsystem. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02312E *SOURCE* Unable to delete logical subsystem. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02313E *SOURCE* Unable to delete logical subsystem. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02314E *SOURCE* Unable to modify logical volume. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02315E *SOURCE* **Unable to modify logical subsystem. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02316E *SOURCE* **Logical subsystem query failure. Contact IBM technical support for assistance.**

Explanation

The 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 management console server reports a storage unit microcode-level error. Only one array can be specified.

Action

Specify one array, and then resubmit the task.

CMUN02319E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

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 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 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 management console server reports a storage unit device adapter error.

Action

Contact IBM technical support for assistance.

CMUN02332E *SOURCE* **Unable to delete rank. Contact IBM technical support for assistance.****Explanation**

The management console server reports a storage unit device adapter error.

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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. A list of SCSI host ports is 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 subsystem exists.**

Explanation

The last rank cannot be deleted because one or more logical subsystems still exist.

Action

Delete all logical subsystems, 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 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 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 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. Contact IBM technical support for assistance.**

Explanation

The 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 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02353E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02354E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.**Explanation**

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02366E *SOURCE* Volume group operation failure: local server offline

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02369E *SOURCE* Volume group operation failure. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02374E *SOURCE* **Unable to delete volume group. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02375E *SOURCE* **Volume group operation failure. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02382E *SOURCE* **Unable to repair array. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02384E *SOURCE* **Operation failure: invalid file type. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. A configuration 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 *REFERENCE* **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 = 10⁹ bytes). You can calculate the exact number of 512 byte blocks as $\text{INT}((\text{INT}(\text{GB} \times 10^9 / 512) + 63) / 64) \times 64$. 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 = 2³⁰ 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 = 2³⁰ 512-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) 0.9 (0.8) 1.0 (0.9) 1.1 (1.0) 1.2 (1.1) 1.7 (1.6) 1.8 (1.7) 1.9 (1.8) 2.0 (1.9) 2.5 (2.3) 2.6 (2.4) 2.7 (2.5) 2.8 (2.6) 3.3 (3.1) 3.4 (3.2) 3.5 (3.3) 3.6 (3.4) 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) 6.1 (5.7) 6.7 (6.2) 6.8 (6.3) 6.9 (6.4) 7.0 (6.5) 7.5 (7.0) 7.6 (7.1) 7.7 (7.2) 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) 9.4 (8.8) 10.0 (9.3) 10.1 (9.4) 10.2 (9.5) 10.3 (9.6) 10.8 (10.1) 10.9 (10.2) 11.0 (10.2) 11.1 (10.3) 11.6 (10.8) 11.7 (10.9) 11.8 (11.0) 11.9 (11.1) 12.4 (11.5) 12.5 (11.6) 12.6 (11.7) 12.7 (11.8) 13.3 (12.4) 13.4 (12.5) 13.5 (12.6) 13.6 (12.7) 14.1 (13.1) 14.2 (13.2) 14.3 (13.3) 14.4 (13.4) 14.9 (13.9) 15.0 (14.0) 15.1 (14.1) 15.2 (14.2) 15.7 (14.6) 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) 17.7 (16.5) 18.2 (17.0) 18.3 (17.0) 18.4 (17.1) 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
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(21.7) 23.4 (21.8) 23.5 (21.9) 24.0 (22.4) 24.1 (22.4) 24.2 (22.5) 24.3 (22.6) 24.8 (23.1)
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(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
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Action

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 complete creation of the volume. Extents are currently being formatted and will be available at a later time. The volume configuration state is "Configuration Error". You must remove the volume.**

Explanation

The volume creation task cannot be completed successfully because there are too few available extents. However, recently released extents 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

List the volume that you are attempting to create. Remove each volume that has a configuration state of "Configuration Error". Allow enough time for extent reformatting. List the number of available extents. When there are enough available extents to create the volume, resubmit the task.

CMUN02391E *SOURCE* **Unable to delete CKD base volume. Unable to delete or reassign aliases.**

Explanation

The 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 is 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* You must enter contact information before you can invoke the Call Home function.

Explanation

You must enter your company name, building location, ship to country information, and primary contact telephone number before you can invoke the Call Home function.

Action

Use the DS Command-Line Interface `setcontactinfo` command to enter contact information, and 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.

Use the `lsddm` command to determine which array sites are in dualloop 1 and which array sites are in dualloop 2. When you create an array with multiple array sites, you must select array sites that all have the same dualloop value. For example, all array sites must be in dualloop 1 or all array sites must be in dualloop 2.

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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

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: licensed capacity has been exceeded.**

Explanation

The create rank task has failed because the total capacity would exceed one or more of your current licenses.

Action

Before you resubmit the task, obtain and apply new activation codes. Use the Apply activation codes page or the DS Command-Line Interface (CLI) `applykey` command to enter the new activation codes.

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 last rank: A volume group is still defined.**

Explanation

You are attempting to delete the last defined rank, but one or more user-defined volume groups still exist. You must delete all objects that are logically configured on the rank (including volumes, logical control units, volume groups and host ports) before you can delete this rank. You do not need to delete arrays, and you do not need to delete the default volume groups 10, 20 and 30.

Action

Ensure that no other objects are logically configured on the rank, and then resubmit the task.

CMUN02406E *SOURCE* **Internal logical configuration error: Collect a PE package.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02410E *SOURCE* **Extent pool operation failure: Resource Manager not available on alternate server. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02417E *SOURCE* Rank repair operation failure. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02419E *SOURCE* Rank repair operation failure: Service intent flag is set. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02420E *SOURCE* Rank repair operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02421E *SOURCE* Rank repair operation failure: Unable to establish array site communication session. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02423E *SOURCE* Rank repair operation failure: device adapter error. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02427E *SOURCE* Internal logical configuration error: Another configuration is in progress.

Explanation

The 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. Use the Refresh button on the Status tab of the Properties page to view the disk status. 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. At least one DDM in the array that you specified requires a service procedure.**

Explanation

The rank cannot be created because the array has at least one DDM that requires a service procedure.

Action

Follow the recommended service procedure for the DDM, and then resubmit the task.

CMUN02440E *SOURCE* **Unable to create rank. The array site does not contain a full complement of DDMs.**

Explanation

The rank cannot be created because not all of the disk drives in the array site can be found. One or more DDMs must be replaced.

Action

Wait until the drives have been replaced, and then resubmit the task.

CMUN02441E *SOURCE* **Unable to delete last rank: A SCSI host port is attached to the rank.**

Explanation

You are attempting to delete the last defined rank, but one or more SCSI host ports are attached to the rank. You must delete all objects that are logically configured on the rank (including volumes, logical control units, volume groups and host ports) before you can delete this rank. You do not need to delete arrays, and you do not need to delete the default volume groups 10, 20 and 30.

Action

Ensure that no other objects are logically configured on the rank, and then resubmit the task.

CMUN02442E *SOURCE* **Unable to create volume.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Collect a PE package and contact IBM technical support for assistance.

CMUN02443E *SOURCE* **Unable to create volume.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Collect a PE package and contact IBM technical support for assistance.

CMUN02444E *SOURCE* **Unable to repair rank. Disk drive modules not found.**

Explanation

The management console server reports a storage unit microcode-level error. One or more disk drives cannot be found in the array site.

Action

Ensure that the array site is populated with disk drives and that the drives are powered and available. If another attempt to repair the rank is not successful, contact IBM technical support for assistance.

CMUN02445E *SOURCE* **Unable to bring rank online. Device adapter error. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02446E *SOURCE* **Unable to repair rank. One or more disk drive modules is not reporting normal status.**

Explanation

All failed disk drives must be replaced before a rank repair can start.

Action

Ensure that all failed drives are replaced, and then resubmit the task.

CMUN02447E *SOURCE* **Unable to repair rank. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN02448E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02449E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02450E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02451E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02452E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02453E *SOURCE* **Feature install activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02454E *SOURCE* Feature install activation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02455E *SOURCE* Feature install activation failure: Unable to decrypt license key.

Explanation

The license key that you provided cannot be decrypted correctly.

Action

If you entered the key incorrectly, enter the key correctly and resubmit the task. If this does not resolve the problem, download a new file from the IBM Disk Storage Feature Activation (DSFA) Web site and import that file. If the problem persists, contact IBM technical support for assistance.

CMUN02456E *SOURCE* Feature install activation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02457E *SOURCE* Feature install activation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports a storage unit microcode-level error. Installation of a license machine code feature fails.

Action

Contact IBM technical support for assistance.

CMUN02458E *SOURCE* **Feature key validation failure: key type does not match storage type**

Explanation

The license machine code feature key validation fails. Either the key type is not valid, or the key type does not match the storage type (FB/CKD/BOTH).

Action

Ensure that the license key matches the storage type. If this does not resolve the problem, download a new file from the IBM Disk Storage Feature Activation (DSFA) Web site and import that file. If the problem persists, contact IBM technical support for assistance.

CMUN02459E *SOURCE* **Unable to modify network port. The IP addresses of the two clusters cannot be identical.**

Explanation

The same IP address is specified for both clusters. Unique IP addresses must be assigned.

Action

Specify unique IP addresses, and then resubmit the task.

CMUN02460E *SOURCE* **Unable to modify network port. Retry.**

Explanation

The management console server reports a storage unit microcode-level error. The network port modification process did not fully complete.

Action

This might be a temporary problem. Resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02461E *REFERENCE* **LIC feature build key failed. Contact IBM technical support for assistance.**

Explanation

The requested LIC feature activation failed because the LIC feature build encryption key failed.

Action

Contact IBM technical support for assistance.

CMUN02462E *REFERENCE* Invalid storage image sequence number in the LIC feature key.

Explanation

The sequence number in the LIC feature key is invalid for the storage image.

Action

Verify that you have entered the correct LIC feature key for the storage image. If the LIC feature key that you originally entered was not correct, resubmit the task with the correct LIC feature key. If you originally entered the correct key, contact IBM technical support for assistance.

CMUN02463E *REFERENCE* Creation of LIC feature file failed. Contact IBM technical support for assistance.

Explanation

The creation of the LIC feature file failed.

Action

Contact IBM technical support for assistance.

CMUN02464E *REFERENCE* Error decrypting LIC feature string or file. Contact IBM technical support for assistance.

Explanation

The LIC feature string or file cannot be decrypted.

Action

Contact IBM technical support for assistance.

CMUN02465E *REFERENCE* Error encrypting LIC feature string or file. Contact IBM technical support for assistance.

Explanation

The LIC feature string or file cannot be encrypted.

Action

Contact IBM technical support for assistance.

CMUN02466E *REFERENCE* LIC feature string validation failed. Contact IBM technical support for assistance.

Explanation

The LIC feature string cannot be validated.

Action

Contact IBM technical support for assistance.

CMUN02467E REFERENCE Invalid LIC feature type.**Explanation**

You either entered a LIC feature key for a LIC feature type that is not yet supported or you entered an incorrect LIC feature key.

Action

Verify that you entered the correct LIC feature key and that the feature type is valid. If either the LIC feature key or feature type is not valid, resubmit the task with a valid feature key or feature type. If the problem persists, contact IBM technical support for assistance.

CMUN02468E REFERENCE Error opening LIC feature file. Contact IBM technical support for assistance.**Explanation**

The LIC feature file cannot be opened.

Action

Contact IBM technical support for assistance.

CMUN02469E REFERENCE Error writing to the LIC feature file. Contact IBM technical support for assistance.**Explanation**

The LIC feature file cannot be written.

Action

Contact IBM technical support for assistance.

CMUN02470E REFERENCE LIC feature file validation failed. Contact IBM technical support for assistance.**Explanation**

The LIC feature file validation failed.

Action

Contact IBM technical support for assistance.

CMUN02471E *REFERENCE* Error activating LIC feature file. Contact IBM technical support for assistance.

Explanation

The LIC feature file cannot be activated.

Action

Contact IBM technical support for assistance.

CMUN02472E *REFERENCE* Error displaying LIC feature information. Contact IBM technical support for assistance.

Explanation

The LIC feature information cannot be displayed.

Action

Contact IBM technical support for assistance.

CMUN02473E *REFERENCE* Error querying LIC feature information. Contact IBM technical support for assistance.

Explanation

The LIC feature information cannot be queried.

Action

Contact IBM technical support for assistance.

CMUN02474E *REFERENCE* Error determining product information to be used for LIC features. Contact IBM technical support for assistance.

Explanation

The product information that is necessary for LIC features cannot be determined.

Action

Contact IBM technical support for assistance.

CMUN02475E *REFERENCE* LIC feature storage type is not correct.

Explanation

You have selected an incorrect LIC feature storage type. Some LIC feature types require a specific storage type (FB, CKD, or combined) and cannot be activated with the incorrect storage type. For example, the remote mirror feature for z/OS and parallel access volumes (PAVs) require that you select the CKD storage type. You can select one of the following storage types:

- Fixed block (FB): Select this storage type if you are attaching only to open systems hosts.
- Count key data (CKD): Select this storage type if you are attaching only to zSeries hosts.
- All (FB and CKD): Select this storage type if you are attaching both open systems and zSeries hosts.

Action

Select the appropriate LIC feature storage type and resubmit the task with the appropriate LIC feature key.

CMUN02476E REFERENCE Invalid LIC feature key length.

Explanation

The LIC feature key length is invalid.

Action

Enter the correct LIC feature key, and resubmit the task.

CMUN02477E REFERENCE The LIC feature keys cannot be installed due to default LIC features. Contact IBM technical support for assistance.

Explanation

You are attempting to install a LIC feature key on a storage unit that has been set to use the default LIC features.

Action

Contact IBM technical support for assistance.

CMUN02478E REFERENCE LIC feature cannot be installed due to the maximum number of logical subsystems for CKD storage. Contact IBM technical support for assistance.

Explanation

You cannot install the LIC feature because it will exceed the maximum number of allowed logical subsystems for CKD-type storage.

Action

Contact IBM technical support for assistance.

CMUN02479E *REFERENCE* **The volume group modification or creation task failed. You have specified a volume that does not exist.**

Explanation

You have specified a volume group configuration that contains one or more volumes that do not exist or has not yet been created. All specified volumes must exist before you can add them to the volume group.

Action

Remove the nonexistent volumes from the volume group configuration, and resubmit the task.

CMUN02480E *REFERENCE* **LIC feature capacity error. Invalid capacity value for the specified LIC feature type.**

Explanation

The LIC feature capacity value that you have selected for the LIC feature key is not valid for this LIC feature type.

Action

Select a valid capacity to obtain a new LIC feature key and resubmit the task.

CMUN02481E *REFERENCE* **The modify host adapter port task failed because the host adapter port is not defined.**

Explanation

You have specified a host adapter port for modification that is not defined. This failure can be the result of one of the following causes:

- A transient timing issue during the dynamic update of the logical host port adapter definition
- A host port adapter hardware problem
- A cable problem
- A discrepancy between the physical host port adapter configuration and the logical host port adapter configuration

Action

Perform each of the following steps to resolve the issue:

- Correct any hardware errors.
- Ensure that all cables are connected and seated correctly.
- Verify that the physical host adapter port configuration matches the displayed logical host port adapter configuration.

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

CMUN02482E REFERENCE The modify host adapter port task failed because the host adapter port cannot be modified unless both processor cards show normal status.

Explanation

You are attempting to modify a host adapter port while at least one of the processor cards is unavailable. The modify host port adapter task requires that both processor cards in the storage unit are working together.

Action

Correct any hardware errors. Ensure that both processor cards show normal status. If the problem persists, contact IBM technical support for assistance.

CMUN02483E REFERENCE The modify host adapter port task failed because the port failed to change to the offline or online state.

Explanation

The modify host adapter port task must take the port offline before the modification is made and take the port online after changing the port type. The utility that takes the port offline and online has failed.

Action

Verify that the storage unit status is normal. If the problem persists, contact IBM technical support for assistance.

CMUN02484E REFERENCE The modify host adapter port task failed because the host adapter port type modification failed.

Explanation

You are attempting to modify the host port type to an incorrect value or to modify the host port type while the storage unit is unavailable. The utility that changes the host adapter port type has failed.

Action

Verify that the storage unit status is normal. If the problem persists, contact IBM technical support for assistance.

CMUN02485E REFERENCE Unable to create, delete, or assign a rank while one of the processor cards is inactive.

Explanation

You have attempted to perform an action on a rank while one of the processor cards is inactive. A processor card can be inactive for one of the following reasons:

- A processor card or the battery backup unit (BBU) supporting the processor card has failed.

- A processor card or the BBU that supports the processor card has been quiesced in preparation for a service action.

Action

Perform one of the following actions:

- If the processor card or the BBU that supports the processor card has failed, replace the hardware resource, wait for initialization to complete, and resubmit the task.
- If the processor card or the BBU that supports the processor card is quiesced in preparation for a service action, complete the service action, wait for initialization to complete, and resubmit the task.
- If you have removed the processor card or the BBU that supports the processor card, replace them and resubmit the task.
- Use the properties and problem log pages to ensure that both the processor card and the BBU that supports the processor card are online. Correct and close any open problem log entries and resubmit the task.

CMUN02486E REFERENCE Rank does not exist.

Explanation

You have attempted to perform an action on a rank that does not exist.

Action

Either create the nonexistent rank and resubmit the task or select a different rank and resubmit the task.

CMUN02487E REFERENCE The rank is not in an inaccessible state.

Explanation

You have attempted to perform a repair action on a rank that is accessible. You can only perform repair actions on ranks that are in an inaccessible state.

Action

Specify an inaccessible rank and resubmit the task.

CMUN02488E REFERENCE Internal error. Contact IBM technical support for assistance.

Explanation

The management console reports a storage unit microcode-level error. The rank failed to change to an offline state.

Action

Contact IBM technical support for assistance.

CMUN02489E *REFERENCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console reports a storage unit microcode-level error. The rank failed to change to a failed state.

Action

Contact IBM technical support for assistance.

CMUN02490E *REFERENCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console reports a storage unit microcode-level error. The previously used array was not deleted.

Action

Contact IBM technical support for assistance.

CMUN02491E *VOLUMES* **The extent pool cannot be deleted. Logical volumes are still assigned to the extent pool.**

Explanation

There are volumes that are currently associated with the extent pool that you are attempting to delete.

Action

Remove the logical volumes that are assigned to the specified extent pool, and resubmit the task.

CMUN02492E *SOURCE* **Unable to create the SCSI host port. Another SCSI host port exists with the same worldwide port name and a conflicting port ID.**

Explanation

You have attempted to create a SCSI host port with a conflicting port ID and the same worldwide port name (WWPN) as an already existing host port. You cannot enable the same port ID on SCSI host ports that have identical WWPNs.

Action

Enable a different port on the SCSI host port with the same WWPN and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02493E *SOURCE* **Unable to modify the SCSI host port. Another SCSI host port exists with the same worldwide port name and a conflicting port ID.**

Explanation

You have attempted to modify a SCSI host port with a conflicting port ID and the same worldwide port name (WWPN) as an already existing host port. You cannot enable the same port ID on SCSI host ports that have identical WWPNs.

Action

Ensure that you enable a different port on the SCSI host port with the same WWPN and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN02494E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02495E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02496E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02497E *SOURCE* **The storage unit is busy.**

Explanation

The task cannot complete because the storage unit is busy.

Action

Wait for a few seconds until the server or storage unit is less busy, and resubmit the task.

CMUN02498E *SOURCE* **The storage unit is busy.**

Explanation

The task cannot complete because the storage unit is busy.

Action

Wait for a few minutes until the server or storage unit is less busy, and resubmit the task.

CMUN02499E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02500E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02501E *SOURCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN02502E *SOURCE* You are attempting to create an array with two array sites, and the disk class of the array sites is not the same.

Explanation

Disk class is an attribute of disk drive modules, array sites, and arrays. The disk class attribute distinguishes between different classes of disk drives, such as enterprise drives and near-line drives, each with different performance and reliability characteristics. When you create an array with multiple array sites, the disk class must be the same for all array sites in the array that you are creating to ensure that the array maintains the same performance and reliability characteristics of the disk drive modules.

Action

If you want to create an array from multiple array sites, you must select array sites that have the same disk class. If you want to create arrays from array sites that have different disk classes, you must create separate arrays for each disk class.

CMUN02503E *SOURCE* The synchronize security repository task has failed because it exceeds the maximum number of user accounts.

Explanation

When you establish a peer relationship between management consoles, you have two options for processing user accounts:

- Overwrite the user accounts on the secondary management console with the user accounts from the primary management console.
- Synchronize the user accounts between the management consoles. This option adds the unique user accounts on the secondary management console to the user accounts on the primary management console.

You chose the synchronize option. The maximum number of user accounts for a management console is 100. The synchronize option has failed because there are more than 100 unique user accounts on the management consoles in the peer relationship that you are attempting to establish.

Action

Remove the peer relationship between the management consoles. Establish it again, and select either the overwrite option or the synchronize option. If you select the synchronize option, first remove a sufficient number of unique user accounts to ensure that you do not exceed the maximum of 100 unique user accounts.

CMUN02504E *VALUE_0* The create array task has failed because at least one array site state is not unassigned.

Explanation

The array site state must be unassigned for all array sites that are used to create an array.

Action

If the array site state is unavailable, perform the recommended service action. If the array site state is initializing, it changes to unassigned when disk drive module initialization task completes. Wait until the array site state changes to unassigned and then resubmit the task.

CMUN02505E *VALUE_0* The create array task has failed because the characteristics of the array sites do not match.

Explanation

When you create an array with multiple array sites, the array sites must be associated with the same device adapter pair and must have the same values for the following disk characteristics:

- Disk Class (for example, near-line or Enterprise)
- Disk Capacity
- Disk RPM
- Disk Interface Type (for example, FC-AL, S-ATA or SAS)
- Disk Interface Rate

Action

If you want to create an array from multiple array sites, you must select array sites that are associated with the same device adapter pair. You must also select array sites that have the same disk characteristics. If you want to create arrays from array sites that have different disk characteristics, you must create separate arrays for each set of disk characteristics.

CMUN02506E *SOURCE* Operation failed: A VM host command has set a Special Intercept Condition (SIC) on the source or target volume.

Explanation

You are attempting a FlashCopy operation and the operation has failed because a VM host has set a Special Intercept Condition (SIC) on the FlashCopy source or target volume. This SIC is set by a VM host to prevent access to a volume by certain operations. You must reset the SIC to use the DS Command-Line Interface (CLI) to perform the FlashCopy operation on these volumes, or you can use VM host commands to perform the FlashCopy operation. You cannot perform a FlashCopy operation using the CLI to a source or target volume that is attached to a VM host.

Action

Make sure you have selected the correct FlashCopy source and target volumes. If you want to remove the SIC you must detach the volume from the VM host. Resubmit the CLI FlashCopy operation or use VM host commands to perform the FlashCopy operation. If the problem persists, contact IBM technical support for assistance.

CMUN02507E *VALUE_0* Unable to submit the logical configuration task that you have requested because a discovery task is in progress.

Explanation

The logical configuration task that you have attempted has failed because it cannot be submitted while a discovery task is in progress.

Action

Wait until the discovery task has completed successfully and resubmit the logical configuration task.

CMUN02513E *SOURCE* The licensed internal code (LIC) activation key task has failed because at least one of the servers of the storage image is not currently operational.

Explanation

Both servers of the storage image must be operational when you install the LIC activation key.

Action

Ensure that both servers of the storage image are operational and then resubmit the task.

CMUN02514E *REFERENCE* You must use the standard ASCII 7-bit character set to enter data.

Explanation

You have entered data using a coded character set that is not supported.

Action

Use the standard ASCII 7-bit character set to enter data and resubmit the command.

CMUN02515E *SOURCE* Remote Mirror and Copy activation codes are not supported for this model.

Explanation

For this model, Remote Mirror and Copy activation codes have been replaced with Metro Mirror and Global Mirror activation codes.

Action

Activate a Metro Mirror activation code, a Global Mirror activation code, or both.

CMUN02516E *SOURCE* Metro Mirror activation codes are not supported for this model.

Explanation

If you want to enable the Metro Mirror feature for this model, use a Remote Mirror and Copy activation code.

Action

Activate a Remote Mirror and Copy activation code.

CMUN02517E *SOURCE* Global Mirror activation codes are not supported for this model.

Explanation

If you want to enable the Global Mirror feature for this model, use a Remote Mirror and Copy activation code.

Action

Activate a Remote Mirror and Copy activation code.

CMUN03000E *SOURCE* Operation failure: action cancelled due to lack of resources. Contact IBM technical support for assistance.

Explanation

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

CMUN03002E *SOURCE* Operation failure: action not supported

Explanation

The 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. If the problem persists, 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.

Action

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. Contact IBM technical support for assistance.

Explanation

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

CMUN03011E SOURCE Copy Services operation failure: cascading secondary synchronous**Explanation**

Cascading secondary volumes 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. If the problem persists, contact IBM technical support for assistance.

CMUN03012E SOURCE Remote Mirror and Copy operation failure**Explanation**

The management console server reports a Remote Mirror and Copy error. The operation might have completed successfully on the primary system. One of the following conditions is occurring:

- Abnormal conditions exist at the secondary processor card.
- Abnormal conditions exist at the secondary storage unit.
- The communication paths between the primary and remote processor card are not functioning.
- Communication cannot be established with the secondary control unit.

Action

Check for hardware errors and disconnected cables, and follow the recommended service procedures. Check the status of the primary and secondary systems. If the problem persists, contact IBM technical support for assistance.

CMUN03013E SOURCE CKD management is disabled. Contact IBM technical support for assistance.**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. Contact IBM technical support for assistance.**

Explanation

A pause or end Global Mirror fails because the action cannot complete without compromising the consistent copy of the data.

Action

Contact IBM technical support for assistance.

CMUN03016E *SOURCE* **Copy Services feature not installed. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

Explanation

The 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. If the problem persists, 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

Action

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. Contact IBM technical support for assistance.**

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

Contact IBM technical support for assistance.

CMUN03024E *SOURCE* **Copy Services operation failure: ESCON - FCP remove collision. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.

Explanation

The 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.

Action

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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

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.**
Contact IBM technical support for assistance.

Explanation

The 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.

Action

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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.

Explanation

The management console server reports a Copy Services error. The secondary volume address is not valid.

Action

Contact IBM technical support for assistance.

CMUN03053E *SOURCE* Copy Services operation failure: invalid transition. Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The Global Mirror session is not in the correct state.

Action

Contact IBM technical support for assistance.

CMUN03057E *SOURCE* Copy Services operation failure: The Metro Mirror pair does not exist.

Explanation

You must specify an existing Metro Mirror pair. The task might have failed because one of the following parameters is not valid:

- Secondary logical subsystem (LSS)
- Primary or secondary device serial number
- Primary or secondary subsystem ID (SSID)
- Primary or secondary Volume ID

Action

Specify an existing Metro Mirror pair and then resubmit the task.

CMUN03058E *SOURCE* Copy Services Operation failure: invalid WNN

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. Contact IBM technical support for assistance.****Explanation**

The 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. Contact IBM technical support for assistance.****Explanation**

The management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03062E *SOURCE* **Copy Services operation failure: maximum masters exceeded. Contact IBM technical support for assistance.****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. Contact IBM technical support for assistance.

Explanation

The 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 resynchronization**

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.

Action

Remove the Remote Mirror and Copy pairs, and then resubmit the task.

CMUN03071E *SOURCE* **Copy Services operation failure: invalid parameter. Contact IBM technical support for assistance.**

Explanation

The management console server reports a Copy Services error.

Action

Contact IBM technical support for assistance.

CMUN03072E *SOURCE* **Copy Services operation failure: invalid track. Contact IBM technical support for assistance.**

Explanation

The 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: One or more path establish tasks has failed.

Explanation

The management console server reports a Copy Services error. The path establish task failed for one or more paths to the secondary host port adapter.

Action

Query the paths to determine the status of the failed path, and verify host port compatibility between the source and target ports of the failed path. If the problem persists, 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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

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.**
Contact IBM technical support for assistance.**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. Contact IBM technical support for assistance.

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The 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

Contact IBM technical support for assistance.

CMUN03083E *SOURCE* Copy Services operation failure: preexisting Remote Mirror and Copy pair. Contact IBM technical support for assistance.

Explanation

The 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 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a Copy Services error. The submitted session command was not properly defined.

Action

Contact IBM technical support for assistance.

CMUN03091E *SOURCE* **Copy Services operation failure: session members not defined**

Explanation

The 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. Contact IBM technical support for assistance.**

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

Contact IBM technical support for assistance.

CMUN03095E *SOURCE* **Copy Services operation failure: subordinate count out of range. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.

Explanation

The target is reserved.

Action

Contact IBM technical support for assistance.

CMUN03098E *SOURCE* Copy Services operation failure: topology missing paths. Contact IBM technical support for assistance.

Explanation

Paths do not exist for specified topology.

Action

Contact IBM technical support for assistance.

CMUN03099E *SOURCE* Copy Services operation failure: VM minidisk. Contact IBM technical support for assistance.

Explanation

The management console server reports a Copy Services error. FlashCopy failed because the volumes are managed by VM minidisk.

Action

Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The 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: The volume is in a long busy state, not yet configured, not yet formatted, or the source and target volumes are of different types.

Explanation

One of the volumes is not available for the Copy Service operation. This might be because the volume is already participating in a Global Mirror relationship, might not be formatted or configured, or might be of a different type.

Action

Perform one of the following options:

- Check to see if the volume is configured and formatted and is not being accessed in a Copy Services operation, and then resubmit the task.
 - Select 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.

Action

Specify compatible volumes, and then resubmit the task.

CMUN03105E *SOURCE* Copy Services operation failure: volume not restorable. Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The 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 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. Contact IBM technical support for assistance.

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. Contact IBM technical support for assistance.

Explanation

The 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

Contact IBM technical support for assistance.

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 initialization completes.

Action

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. Contact IBM technical support for assistance.**

Explanation

The management console server reports a hardware error.

Action

Contact IBM technical support for assistance.

CMUN03120E *SOURCE* **Copy Services operation failure: The Change Recording feature is already active and has been defined by a different Copy Services task type.**

Explanation

The Change Recording feature can be activated by each of the following Copy Services task types:

- Establish FlashCopy
- Global Mirror Create Session
- Metro Mirror Recovery Failover
- Change Recording Control commands

You have attempted to activate the Change Recording feature on a volume that already has the Change Recording feature activated by a different task type than the one that you are attempting.

Action

Ensure that you have selected the correct volume and task. If the problem persists, contact IBM technical support for assistance.

CMUN04000E *SOURCE* **Operation failure: Copy Services server failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error. The Copy Services server is failing.

Action

Contact IBM technical support for assistance.

CMUN04001E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04002E *SOURCE* **Operation failure: internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN04003E *SOURCE* **Operation failure: internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04004E *SOURCE* **Operation failure: invalid parameters**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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.

CMUN04007E *SOURCE* **Operation failure: resource not found. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04008E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04009E *SOURCE* **Operation failure: unknown. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04010E *SOURCE* **Internal Copy Services Error.****Explanation**

The management console server reports an internal Copy Services failure. This failure might be caused by an unconfigured logical subsystem or by a failure to communicate with the control unit.

Action

Ensure that the logical subsystem is configured correctly and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN04011E *SOURCE* **Warmstart failure.****Explanation**

Once you submit a warmstart task, you must wait a minimum of five minutes before you can submit another warmstart task. The warmstart task that you have just submitted has failed because another warmstart task has been submitted within the past five minutes.

Action

Wait five minutes before you submit another warmstart task.

CMUN04012E *SOURCE* **Operation failure. Contact IBM technical support for assistance.****Explanation**

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04013E *SOURCE* **Operation failure.****Explanation**

The management console server reports an internal error.

Action

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

CMUN04014E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04015E *SOURCE* **At least one of the storage unit server enclosure processor cards is not connected.**

Explanation

All of the server enclosure processor cards for the storage unit must be connected to submit the task.

Action

Verify that all of the server enclosure processor cards for the storage unit are connected and resubmit the task.

CMUN04016E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN04017E *SOURCE* **Operation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN05000E *SOURCE* **Operation failure: peer management console is busy**

Explanation

The management console server reports a storage unit microcode-level error. The repository of the peer management console is being updated and is not available.

Action

Wait five minutes then use the security recovery utility to synchronize both peers, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN05001E *SOURCE* Operation failure: duplicate user name in the repository of the peer management console

Explanation

There is a duplicate entry for the specified user name in the repository of the peer management console.

Action

Use the security recovery utility to synchronize both peer management consoles. If the problem persists, contact IBM technical support for assistance.

CMUN05002E *SOURCE* Operation failure: duplicate user name in the repository of the local management console

Explanation

You are attempting to create a user name that already exists on the local management console.

Action

Create a new user name that does not already exist and resubmit the task.

CMUN05003E *SOURCE* Operation failure: communication failure between peer management consoles.

Explanation

The local management console that you are using has failed to communicate with the peer management console. This can cause the peer management consoles to become unsynchronized.

Action

Ensure that the peered management console is powered on and is available. If the peered management console is available but the problem persists, use the security recovery utility to synchronize the peer management consoles. If the problem still persists, contact IBM technical support for assistance.

CMUN05004E *SOURCE* Operation failure: group not found in repository of the peer management console

Explanation

The specified user group name cannot be found in the repository of the peer management console.

Action

Use the security recovery utility to synchronize both peers. If the problem persists, contact IBM technical support for assistance.

CMUN05005E *SOURCE* **Operation failure: group not found in the repository of the local management console. Contact IBM technical support for assistance.**

Explanation

The 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 management console server reports a storage unit microcode-level error. The repository of the local management console 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. Contact IBM technical support for assistance.**

Explanation

The 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 the repository of the peer management console**

Explanation

The number of user accounts on the repository of the peer management console is at the maximum allowed. No more accounts can be created.

Action

Remove unused accounts and then resubmit the task.

CMUN05010E *SOURCE* **Operation failure: maximum number of accounts reached on the repository of the local management console**

Explanation

The number of user accounts on the repository of the local management console 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: The repository on the peer management console is not accessible for an unknown reason. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05015E *SOURCE* **Operation failure: the repository of the local management console is not accessible. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05016E *SOURCE* **Operation failure: request timed out**

Explanation

The management console server reports an internal security error. A security request is timing out. The repository of the peer management console might not be responding.

Action

Use the security recovery utility to synchronize both peer management consoles. If the problem persists, contact IBM technical support for assistance.

CMUN05017E *SOURCE* **Operation failure: internal error in the repository of the peer management console. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05018E *SOURCE* **Operation failure: internal error in the repository of the local management console. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05019E *SOURCE* **Operation failure: settings entry not found in the repository of the peer management console**

Explanation

The management console server reports an internal security error.

Action

Use the security recovery tool to synchronize both peer management consoles.

CMUN05020E *SOURCE* **Operation failure: settings entry not found in the repository of the local management console. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal security error.

Action

Contact IBM technical support for assistance.

CMUN05021E *SOURCE* **Operation failure: user not found in the repository of the peer management console**

Explanation

The specified user name cannot be found in the repository of the peer management console.

Action

Use the security recovery utility to synchronize both peers, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN05022E *SOURCE* **Operation failure: user not found in the repository of the local management console**

Explanation

The specified user name cannot be found in the repository of the local management console.

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 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.
Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06003E *SOURCE* **Operation failure: unable to copy PE package.
Contact IBM technical support for assistance.**

Explanation

The 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 management console server reports an internal service advisor error.

Action

Submit the command from the management console with administrator authority. If the problem persists, then re-install the management console server software. If the problem still persists, contact IBM technical support for assistance.

CMUN06005E *SOURCE* **Operation failure: unable to copy statesave.
Contact IBM technical support for assistance.**

Explanation

The 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.
Contact IBM technical support for assistance.**

Explanation

The 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.
Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06008E *SOURCE* **Operation failure: console server exception returned to SA. Contact IBM technical support for assistance.**

Explanation

The 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 hardware resources. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06011E *SOURCE* **Operation failure: unable to retrieve password. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06013E *SOURCE* **Operation failure: unable to retrieve software version. Contact IBM technical support for assistance.**

Explanation

The 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. Contact IBM technical support for assistance.**

Explanation

The 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 management console server reports an internal service advisor error. The code load bundle that was downloaded to the 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 management console server reports an internal service advisor error.

Action

Ensure that the destination and source directories on the management console are valid. If the problem persists, contact IBM technical support for assistance.

CMUN06017E *SOURCE* Operation failure: FTP failure

Explanation

The management console server reports an internal service advisor error. Problem determination data cannot be sent to IBM using file transfer protocol.

Action

1. Ensure that all the files in directory %MR1750_SM_HOME%\send2IBM are valid and can be transferred by FTP.
 2. Ensure that directory %MR1750_SM_HOME%\send2IBM\sent is accessible.
 3. Ensure that network connectivity and firewall access is available.
 4. Attempt to resend the data again.
 5. 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 nonconcurrent 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 management console server reports an internal service advisor error. The code bundle that was copied to the 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 management console server reports an internal service advisor error.

- Environment variables might not be set properly.
- This command can be run from the management console only.

Action

1. Submit the command from the management console with administrator authority.
 2. If the problem persists, then re-install the 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 management console server reports an internal service advisor error. The management console server software installation might have failed or the code bundle might not be valid.

Action

1. Download a new copy of the code bundle and try to load it again.
 2. If the problem persists, then reinstall the management console server software.
 3. If the problem persists, contact IBM technical support for assistance.
-

CMUN06023E *SOURCE* **Operation failure: unable to mark statesave.
Contact IBM technical support for assistance.****Explanation**

The 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 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. Contact IBM technical support for assistance.****Explanation**

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

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 management console.
- The 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 management console with administrator authority.
 4. If the problem persists, then reinstall the management console server software.
 5. If the problem still persists, contact IBM technical support for assistance.
-

CMUN06027E *SOURCE* **Operation failure: thread interrupted. Contact IBM technical support for assistance.****Explanation**

The 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 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 management console server reports an internal service advisor error. An unknown operating system is detected.

Action

Install the 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 management console server software is installed. The management console server software installation might have failed.

Action

Submit the command from the management console. If the problem persists, then re-install the 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. Contact IBM technical support for assistance.****Explanation**

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06032E *SOURCE* **Unable to copy new code bundle. A code load is in progress.**

Explanation

The operation is not permitted while a code load is in progress.

Action

Wait until the code load completes, and then resubmit the task.

CMUN06033E *SOURCE* **Unable to copy new code bundle. Another copy is in progress.**

Explanation

The operation is not permitted while another copy is in progress.

Action

Wait until the code copy completes, and then resubmit the task.

CMUN06034E *SOURCE* **Operation failure: unable to close file. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06035E *SOURCE* **Operation failure: FTP connection refused**

Explanation

The management console server reports an internal service advisor error. Problem determination data cannot be sent to IBM using file transfer protocol because the connection to testcase.boulder.ibm.com was refused.

Action

1. Ensure that all the files in directory %MR1750_SM_HOME%\send2IBM are valid and can be transferred by FTP.
2. Ensure that directory %MR1750_SM_HOME%\send2IBM\sent is accessible.
3. Ensure that network connectivity and firewall access is available.
4. Attempt to resend the data again.
5. If the problem persists, contact IBM technical support for assistance.

CMUN06036E *SOURCE* **Operation failure: file list not found. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service advisor error.

Action

Contact IBM technical support for assistance.

CMUN06037E *SOURCE* **Operation failure: invalid FTP directory**

Explanation

The system cannot access the %MR1750_SM_HOME%\send2IBM\sent directory on the management console. There might have been a problem with the management console server software installation, or you might not be complying with prerequisites to use this function. For example, you might not have system permissions to access the directory.

Action

1. Ensure that all the prerequisites are met, and then resubmit the command from the management console.
 2. If the problem persists, reinstall the management console server software.
 3. If the problem still persists, contact IBM technical support for assistance.
-

CMUN06038E *SOURCE* **Operation failure: invalid send2IBM directory**

Explanation

The system cannot access the %MR1750_SM_HOME%\send2IBM directory on the management console. There might have been a problem with the management console server software installation, or you might not be complying with prerequisites to use this function. For example, you might not have system permissions to access the directory.

Action

1. Ensure that all the prerequisites are met, and resubmit the command from the management console.
 2. If the problem persists, reinstall the management console server software.
 3. If the problem still persists, contact IBM technical support for assistance.
-

CMUN06039E *SOURCE* **Unable to access node 0 of the storage unit. This problem might be temporary.**

Explanation

The management console server reports a problem accessing node 0 of the storage unit. This problem might be temporary.

Action

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

CMUN06040E *SOURCE* **Unable to access node 1 of the storage unit. This problem might be temporary.**

Explanation

The management console server reports a problem accessing node 1 of the storage unit. This problem might be temporary.

Action

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

CMUN06041I *SOURCE* **There are no statesave files that are ready to copy from the storage unit to the management console.**

Explanation

The management console server cannot find any statesave files on the storage unit that are ready to copy. One reason might be that a statesave operation has not completed, since a statesave operation might not complete immediately. After you copy a statesave file successfully from the storage unit to the management console, the statesave file on the storage unit has a status of Copied, and it cannot be copied again to the management console. Only statesave files with a status of Ready can be copied to the management console.

Action

If you recently initiated a statesave operation, wait 30 minutes for the statesave operation to complete, and then copy the statesave file that has a status of Ready to the management console.

CMUN07000E *SOURCE* **Unable to prepare for service: The DDM is part of a degraded array.**

Explanation

The degraded array must be repaired before this task can succeed.

Action

Repair the degraded array, and then resubmit the task.

CMUN07001E *SOURCE* **Unable to prepare for service: The DDM is part of an exposed array.**

Explanation

The exposed array must be repaired before this task can succeed.

Action

Repair the exposed array, and then resubmit the task.

CMUN07002E SOURCE Unable to prepare for service: No spare DDM can be found in the array.

Explanation

The array must contain a functioning spare disk drive module before this task can continue.

Action

Create a spare by replacing failed disk drive modules in the array, or by adding more disks drives to the array. Resubmit the task when the array has a functioning spare.

CMUN07003E SOURCE Unable to prepare for service: The DDM is a component of an offline array.

Explanation

The array must be online before this task can continue.

Action

Place the array online, and then resubmit the task.

CMUN07004E SOURCE Unable to prepare for service: The DDM is a component of an array that is rebuilding.

Explanation

The array rebuild must complete before this task can continue.

Action

Wait until the array rebuild completes, and then resubmit the task.

CMUN07005E SOURCE Unable to prepare for service: The array containing this DDM cannot be determined.

Explanation

The management console server reports an internal service error. The disk drive module cannot be identified as a member of a known array.

Action

Ensure that the disk drive module is specified correctly, and then resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN07006E *SOURCE* **Battery activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07007E *SOURCE* **Unable to prepare battery for service. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07008E *SOURCE* **Unable to prepare battery for service: incorrect state. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07009E *SOURCE* **Unable to resume battery backup unit: not allowed. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07010E *SOURCE* **Battery activation failure. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07011E *SOURCE* **Unable to prepare DDM for service. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07012E *SOURCE* **Unable to prepare DDM for service: not allowed in current state. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07013E *SOURCE* **Unable to resume DDM operation: not allowed. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07014E *SOURCE* **Unable to install or resume enclosure operation. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07015E *SOURCE* Unable to prepare enclosure for service. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07016E *SOURCE* Unable to prepare enclosure for service: not allowed in current state. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07017E *SOURCE* Unable to resume enclosure operation: not allowed. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07018E *SOURCE* Install or resume operation failure. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07019E *SOURCE* Unable to prepare fibre-channel interface card for service. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07020E *SOURCE* **Unable to prepare for service: not allowed in current state. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07021E *SOURCE* **Unable to resume operation: not allowed. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07022E *SOURCE* **Unable to install or resume front display panel operation. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07023E *SOURCE* **Unable to prepare front display panel for service. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07024E *SOURCE* Unable to prepare front display panel for service: not allowed in current state. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07025E *SOURCE* Unable to resume front display panel operation: not allowed. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07026E *SOURCE* The install or resume operation for the processor card fails. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07027E *SOURCE* Unable to prepare integrated RAID controller for service. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07028E *SOURCE* Unable to prepare integrated RAID controller for service: not allowed in current state. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07029E *SOURCE* **The resume operation is not allowed for this integrated RAID controller. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07030E *SOURCE* **Unable to install or resume operation. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07031E *SOURCE* **Unable to prepare for service. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07032E *SOURCE* **Unable to prepare for service: not allowed in current state. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07033E *SOURCE* **Unable to resume operation: not allowed. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07034E *SOURCE* **Unable to install or resume rear display panel operation. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07035E *SOURCE* **Unable to prepare rear display panel for service. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07036E *SOURCE* **Unable to prepare rear display panel for service: not allowed in current state. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN07037E *SOURCE* **Unable to resume rear display panel operation: not allowed. Contact IBM technical support for assistance.**

Explanation

The management console server reports an internal service error.

Action

Contact IBM technical support for assistance.

CMUN08000E *SOURCE* **The close problem log entry task has failed because the problem log entry that you have selected is already closed or does not exist.**

Explanation

You are attempting to close a problem log entry that is already closed or does not exist.

Action

Ensure that the problem log entry that you are attempting to close exists and is not already closed. Resubmit the close problem log entry task. If the problem persists, contact IBM technical support for assistance.

CMUN08001E *SOURCE* **The Create test problem record task has failed because of insufficient resources. Wait a few minutes and then resubmit the task.**

Explanation

The management console server reports an internal problem log error.

Action

Wait a few minutes and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN08002W *SOURCE* **The test Call Home connection has initiated successfully.**

Explanation

Initialization is only the first of several steps that are required before this operation completes. The test Call Home connection generates an error entry in the problem log if any of the other steps fail and the operation does not successfully deliver a test Call Home message.

Action

Check the problem log for test Call Home connection error entries.

CMUN80000E *REFERENCE* **The DS Network server is unavailable.**

Explanation

The connection to the DS Network server is established immediately after the user login to the GUI application. The DS Network server cannot be reached over the TCP/IP network or over a local connection. The DS Network server might not be enabled, a network problem might exist, or the DS Network server might be

refusing connections because too many clients are connected.

Action

Ensure that the network is functioning properly and the DS network server is enabled. If too many clients are connected, wait until the DS Network server has fewer clients. Resubmit the task. If the problem persists, log out of the GUI application and log in again and resubmit the task.

CMUN80001E REFERENCE An error occurs while communicating with the management console server.

Explanation

This message is displayed only if a specific 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.

Action

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 REFERENCE The client code is not at the same version level as the management console server code.

Explanation

The client and 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 REFERENCE 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 *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **You are not authorized to perform this action through the management console.****Explanation**

You are attempting to perform an action for which you have no authorization.

Action

Contact your system administrator to change your authorization level. Resubmit the task.

CMUN80011E *REFERENCE* **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 *REFERENCE* **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 *REFERENCE* **Task execution failure: timeout**

Explanation

The management console server reports a timeout error because the 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 *REFERENCE* **Invalid parameter**

Explanation

The 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 *REFERENCE* **Resource not found**

Explanation

The 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 *REFERENCE* **The management console server reports an internal error.**

Explanation

The 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 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. See the information center for more information.****Explanation**

The management console server reports an authentication failure. Your account is locked. Access is denied until your account is unlocked by an administrative user.

Action

Unlock your user account. You must have administrative-level authority to unlock a user account. To unlock the default admin user account, an administrative user must use the security recovery utility to unlock the "admin" account and reset the password for that account.

CMUN80019E *SOURCE* **Authentication failure: The security database is not accessible. Contact IBM technical support for assistance.****Explanation**

The 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 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 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 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 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 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.

CMUN80026E *REFERENCE* The DS Network Interface server is aware of the storage unit, but unable to communicate with it.

Explanation

The DS Network Interface server is unable to communicate with the storage unit. The storage unit was previously available, but might now be offline.

Action

Perform the following actions to correct the problem:

- Check that all cables are connected appropriately between the management console and the server enclosure or from the expansion enclosures to the server enclosure. If cables are not connected appropriately, correct the connection and resubmit the task.
- Check that the server enclosure is not currently initializing. If the server is initializing, wait for initialization to complete, and then resubmit the task.
- Check that the server enclosure is online and not powered off as a result of a shutdown, restart, warm start. If the server enclosure is powered off, power on the server enclosure and resubmit the task.
- Check that a code load is not in process. If code is currently being loaded onto the enclosure, wait for it to complete and resubmit the task.

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

CMUN80027E *REFERENCE* The DS Network Interface server is not aware of the specified storage unit or storage image.

Explanation

The DS Network Interface server is unable to communicate with the storage unit or storage image that you specified because it is not known. You can submit the DS Command-Line Interface (CLI) `lssu` command to list all the storage units or the CLI `lssi` command to list all the storage images in a storage complex that are known to the DS Network Interface server.

Action

Specify the correct storage unit or storage image ID and resubmit the task. If you cannot determine the storage unit or storage image ID, contact IBM technical support for assistance.

CMUN80028E REFERENCE SCSI host port creation failed. Ensure that both processor cards are operational.

Explanation

The SCSI host port creation failed because only one processor card is operational.

Action

Ensure that both processor cards are operational and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80029E REFERENCE Initialization process is not yet complete.

Explanation

The initialization is not yet complete. The task will succeed when initialization is complete and at least one rank exists.

Action

Wait several minutes for the initialization to complete and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80030E REFERENCE Unable to update the number of configured devices. Contact IBM technical support for assistance.

Explanation

The create volume command was successful. However, the management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN80031E REFERENCE Unable to update the number of configured devices. Contact IBM technical support for assistance.

Explanation

The delete volume command was successful. However, the management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN80032E *REFERENCE* **Invalid SCSI host port profile ID.**

Explanation

The profile ID provided for the SCSI host port is invalid.

Action

Provide a valid SCSI host port profile ID and resubmit the task.

CMUN80033E *REFERENCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console server reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN80034E *REFERENCE* **Host connection cannot be added.**

Explanation

The host connection cannot be added due to a lack of sufficient internal resources or a storage unit microcode-level error.

Action

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

CMUN80035E *REFERENCE* **Host connection cannot be added. Request exceeds the maximum number of allowed hosts.**

Explanation

The host connection cannot be added because it exceeds the maximum number of allowed host connections.

Action

Delete one or more existing host connections and resubmit the task.

CMUN80036E *REFERENCE* **Host connection modification failed due to incorrect SCSI host port configuration information.**

Explanation

The host connection cannot be modified due to incorrect or missing SCSI host port configuration information.

Action

Ensure that the SCSI host port configuration information is correct and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80037E REFERENCE Host connection deletion failed.**Explanation**

The host connection cannot be deleted due to a lack of sufficient internal resources or a storage unit microcode-level error.

Action

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

CMUN80038E REFERENCE Host connection deletion failed due to incorrect SCSI host port configuration information.**Explanation**

The host connection cannot be deleted due to incorrect or missing SCSI host port configuration information.

Action

Ensure that the SCSI host port configuration information is correct and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80039E REFERENCE Task failed. Volume group not found.**Explanation**

The task cannot be completed because the specified volume group cannot be found.

Action

Ensure that all volume group configuration information is correct and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80040E REFERENCE Task rejected during recovery procedure.**Explanation**

The task was submitted while the storage unit was attempting an error recovery procedure.

Action

Wait for the recovery procedure to complete. Ensure that you have entered the necessary information and resubmit the task.

CMUN80041E *REFERENCE* **Task rejected during initialization.****Explanation**

The task was submitted before the initialization process completed.

Action

Wait for the initialization process to complete. Ensure that you have entered the necessary information and resubmit the task.

CMUN80042E *REFERENCE* **Task failed due to invalid input.****Explanation**

The information entered for the task was not valid.

Action

Ensure that you are entering valid information and resubmit the task.

CMUN80043E *REFERENCE* **Internal error. Contact IBM technical support for assistance.****Explanation**

The task was sent to an invalid processor card.

Action

Contact IBM technical support for assistance.

CMUN80044E *REFERENCE* **Insufficient task input.****Explanation**

A rank must exist for the task to be successful.

Action

If no ranks exist, define at least one rank and resubmit the task. If ranks exist, ensure that you enter valid information and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80045E *REFERENCE* **Internal error. Insufficient internal resources.****Explanation**

The task failed due to insufficient internal resources.

Action

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

CMUN80046E *REFERENCE* Task rejected due to invalid input.**Explanation**

The information entered for the task is not valid.

Action

Ensure that you are entering valid information and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80047E *REFERENCE* Internal error.**Explanation**

The management console reports a storage unit microcode-level error.

Action

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

CMUN80048E *REFERENCE* Internal error.**Explanation**

The management console reports a storage unit microcode-level error.

Action

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

CMUN80049E *REFERENCE* Volume group failed to create. Attempted use of a reserved volume group type.**Explanation**

The volume group creation task failed because it attempted to use a nonreserved volume group number that has a reserved volume group type.

Action

Resubmit the task with a valid volume group number.

CMUN80050E *REFERENCE* Volume group failed to create. Attempted use of an unsupported volume group type.**Explanation**

The volume group creation task failed because it attempted to use a volume group number that has an unsupported volume group type.

Action

Resubmit the task with a valid volume group number and volume group type.

CMUN80051E REFERENCE Internal error.**Explanation**

The task failed due to insufficient internal resources.

Action

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

CMUN80052E REFERENCE Add volume list task failed. Invalid volume list range.**Explanation**

The volumes on the list were not added to the volume group. The list contained an invalid range of volumes.

Action

Resubmit the task with a valid range of volumes.

CMUN80053E REFERENCE Unsupported task.**Explanation**

The task is not currently supported.

Action

None.

CMUN80054E REFERENCE Internal error. Insufficient internal resources.**Explanation**

The delete volume task failed due to insufficient internal resources.

Action

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

CMUN80055E *REFERENCE* **Internal error. Insufficient internal resources.**

Explanation

The task failed due to insufficient internal resources.

Action

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

CMUN80056E *REFERENCE* **Internal error.**

Explanation

The management console reports a storage unit microcode-level error.

Action

Ensure that you enter the correct information and resubmit the task. If the problem persists, contact IBM technical support for assistance.

CMUN80057E *REFERENCE* **Internal error. Contact IBM technical support for assistance.**

Explanation

The management console reports a storage unit microcode-level error.

Action

Contact IBM technical support for assistance.

CMUN80058E *SOURCE* **A call home service connection could not be established. Check the call home configuration on the management console server.**

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from the management console server.

CMUN80059E *SOURCE* **A call home service connection could not be established. Check the call home configuration on the management console server.**

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from the management console server.

CMUN80060E *SOURCE* A call home service connection could not be established because of a modem error. Check your modem and your call home configuration on the management console server.

Explanation

The call home service could not be completed because of a modem problem or modem configuration error.

Action

Check your modem and your call home configuration from the management console server.

CMUN80061E *SOURCE* Internal error. Contact IBM technical support for assistance.

Explanation

The management console server reports an internal error.

Action

Contact IBM technical support for assistance.

CMUN80062E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80063E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80064E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80065E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80066E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80067E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80068E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80069E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80070E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80071E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80072E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80073E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80074E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80075E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80076E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80077E *SOURCE* A call home service connection could not be established. Check the call home configuration on the management console server.

Explanation

The call home service could not be completed because of a configuration error.

Action

Check your call home configuration from your primary management console server and from your secondary management console server if you have one.

CMUN80078E *REFERENCE* The host worldwide port name (WWPN) that you are submitting is already assigned to one of the storage unit I/O ports.

Explanation

The creation of a new host port definition failed. A storage unit I/O port has already been associated with the host port WWPN. You cannot duplicate host port WWPNs.

Action

If you want to use the selected storage unit I/O port, you must select a different host port WWPN.

CMUN80079E *REFERENCE* Host port does not exist.

Explanation

The modification of the host port failed because the host port does not exist.

Action

Use the correct worldwide port name and I/O ports to match the specific host port you want to modify.

CMUN80080E REFERENCE The firmware upgrade has failed because the code bundle could not be unpacked.

Explanation

The code bundle that was copied to the storage unit cannot be uncompressed. This causes the firmware upgrade and activation operation to fail.

Action

Copy the code bundle to the storage unit again, and then retry the firmware upgrade operation. If the problem persists, collect problem determination trace data, and contact IBM technical support for assistance.

CMUN80081E REFERENCE You cannot close this problem because at least one of the hardware resources associated with this problem is in a Failed state.

Explanation

You have attempted to close a problem that must stay open while the hardware resources that are associated with the problem are in a Failed state.

Action

Refer to the logs to determine which hardware resources are in a Failed state and replace the failed hardware resources.

CMUN80082E REFERENCE The concurrent firmware upgrade is only valid when the both processor cards are fully operational.

Explanation

The concurrent firmware upgrade requires that both processor cards in the storage unit are working together in dual cluster mode so that I/O continues on one processor card while the newer version of firmware is installed on the other processor card.

Action

Check for hardware errors. Ensure that the storage unit is in dual cluster mode. If the problem persists, contact IBM technical support for assistance.

CMUN80083E REFERENCE The audit log location does not exist.

Explanation

You have specified an audit log location on a management console that either does not exist (is not configured) or is not available.

Action

Specify an audit log location on a management console that is available, and resubmit the task.

CMUN80084E *FILE_NAME* **Failed to write to the audit log file.**

Explanation

The specified audit log file cannot be written to. The file might not have write permission or the file system might not have any available space.

Action

Check that the file has write permission and that the file system has space available, and resubmit the task.

CMUN80085E *REFERENCE* **You are not authorized to access the files and directories on the management console.**

Explanation

The current user account does not have the proper authority to access the files and directories on the Management Console. You must submit this task from the management console because this task uses the environment that was configured when you installed the management console.

Action

Use an account that has administrator authority to resubmit this task from the management console. If the problem persists, contact IBM technical support for assistance.

CMUN80086E *REFERENCE* **The firmware update has failed. There is no response from the storage unit.**

Explanation

The firmware update on the storage unit has failed, because of a network connectivity problem or an internal error in the storage unit.

Action

Check the network connectivity to the storage unit. If the network connectivity to the storage unit is functioning properly, restart the operating system on the management console. If the problem persists, reinstall the management console and ensure that all of the environment variables are set correctly. If the problem still persists, collect problem determination data and contact IBM technical support for assistance.

CMUN80087E *REFERENCE* **The firmware update has failed. No progress reported.**

Explanation

Periodic reports from the storage unit on the progress of the firmware update are not occurring as expected.

Action

Collect problem determination data, and contact IBM technical support for assistance.

CMUN80088E *REFERENCE* **The customer name is invalid.**

Explanation

The format for the customer name is a maximum of 15 alphanumeric characters. The underscore character is valid. Spaces and all other special characters are not valid.

Action

Resubmit the task with a valid value for the customer name.

CMUN80089E *REFERENCE* **You are not authorized to create a directory on the management console.**

Explanation

The current user account does not have the proper authority to create a directory on the Management Console. You must submit this task from the management console because this task uses the environment that was configured when you installed the management console.

Action

Use an account that has administrator authority to resubmit this task from the management console. Restart the operating system on the management console. If the problem persists, reinstall the management console and ensure that all of the environment variables are set correctly. If the problem still persists, contact IBM technical support for assistance.

CMUN80090E *REFERENCE* **Trace data collection has failed.**

Explanation

A problem has occurred during the collection of trace data. The current user account might not have the proper authority to access the files, directories, or compression utilities on the management console.

Action

Use an account that has administrator authority to submit this task from the management console. If the problem persists, contact IBM technical support for assistance.

CMUN80091E *REFERENCE* **The concurrent firmware update operation reports an internal error. The concurrent firmware update did not start because prerequisite conditions are not met, or the concurrent firmware update stopped prematurely.**

Explanation

The storage management console server reports an internal error. One possible cause of this error is that prerequisite conditions have not been met. To initiate a concurrent firmware update, the storage unit must be in dual cluster mode, all hardware and software problems must be resolved and closed, and a firmware update cannot already be in progress.

Action

Check that the storage unit is in dual cluster mode. Check that all open hardware and software problems are resolved and that all problems are closed. Check that no other firmware update is in progress. Resubmit the concurrent firmware update. If the problem persists, contact IBM technical support for assistance.

CMUN80092E *SOURCE* **The nonconcurrent firmware update reports an internal error. The nonconcurrent firmware update did not start, or stopped prematurely.**

Explanation

The management console server reports an internal error. One possible cause of this error is that prerequisite conditions have not been met. To initiate a nonconcurrent firmware update, the storage unit must be in dual cluster mode, all hardware and software problems must be resolved and closed, and a firmware update cannot already be in progress.

Action

Check that the storage unit is in dual cluster mode. Check that all open hardware and software problems are resolved and closed. Check that no other firmware update is in progress. Resubmit the nonconcurrent firmware update. If the problem persists, contact IBM technical support for assistance.

CMUN80093E *REFERENCE* **You are attempting a service operation that cannot start because it is not supported on the current version of firmware that is installed on the storage unit.**

Explanation

You are attempting a service operation that is not supported on the current version of firmware.

Action

Upgrade the firmware on the storage unit to a version that supports the service operation, and resubmit the service operation. If the problem persists, contact IBM technical support for assistance.

CMUN80094E REFERENCE You are attempting a service operation that cannot start because the storage unit cannot be quiesced.

Explanation

The storage unit must be quiesced to start the service operation. The quiesce operation did not complete successfully and therefore the service operation failed.

Action

Check that all open hardware problems that can prevent the storage unit from quiescing are resolved and closed, and resubmit the service operation. If the problem persists, contact IBM technical support for assistance.

CMUN80095E REFERENCE You are attempting a service operation that cannot be executed because a storage unit is not defined with the IP address of both processor cards and the machine type and serial number that you are using.

Explanation

A storage unit is uniquely identified by a combination of the IP address of processor card 1, the IP address of processor card 2, and the storage unit machine type and serial number. The values that you supplied for this service operation do not match the values of a previously defined storage unit.

Action

Ensure that you submit the correct values for the IP addresses of the processor cards and the machine type and serial number of the storage unit. Ensure that the storage unit that you are attempting to access is defined and online. Check the cables and IP connection between the management console and the storage unit. Restart the management console. If the problem persists, contact IBM technical support for assistance.

CMUN80096E REFERENCE You are attempting a service operation that cannot start because one of the processor cards on the storage unit is fenced.

Explanation

The service operation is not supported if a processor card on the storage unit is fenced.

Action

Check that all open hardware problems that can cause the fenced condition are resolved and closed, and resubmit the service operation. If the problem persists, contact IBM technical support for assistance.

CMUN80097E REFERENCE A failure in the storage unit prevented service tracks from being cleared.

Explanation

The service tracks cannot be cleared because of a failure in the storage unit.

Action

Check that all open hardware problems that can cause the clear service tracks operation to fail are resolved and closed, and resubmit the service operation. If the problem persists, contact IBM technical support for assistance.

CMUN80098E REFERENCE You are attempting a service operation that cannot start because of problems in the storage unit.

Explanation

The current service operation failed due to problems in the storage unit.

Action

Check that all open hardware problems that can cause the service operation to fail are resolved and closed, and resubmit the service operation. If the problem persists, contact IBM technical support for assistance.

CMUN80099E REFERENCE You are attempting a firmware update. This operation did not start or the operation ended prematurely because a hardware problem exists.

Explanation

The firmware update operation requires that hardware errors are resolved and closed.

Action

Check that all hardware problems are resolved and that there are no open hardware errors. Check that the storage unit is running in dual cluster mode. Check that no other firmware update is in progress. Resubmit the firmware update. If the problem persists, contact IBM technical support for assistance.

CMUN80100E *REFERENCE* You are attempting a firmware update. This operation did not start or the operation ended prematurely because a software problem exists.

Explanation

The firmware update operation requires that all software errors are resolved and closed.

Action

Check that all software problems are resolved and that there are no open software errors. Check that the storage unit is running in dual cluster mode. Check that no other firmware update is in progress. Resubmit the firmware update. If the problem persists, contact IBM technical support for assistance.

CMUN80101E *REFERENCE* You are attempting to close a problem that refers to a removed enclosure. The problem cannot be closed because there is a logical configuration of a storage unit that refers to an array in this enclosure.

Explanation

The problem related to the enclosure that was removed cannot be closed because the logical configuration of the storage unit refers to an array in the enclosure.

Action

Delete the arrays in the enclosure that was removed. Close all problems related to the enclosure that was removed. If the problem persists, contact IBM technical support for assistance.

CMUN80102E *SOURCE* The service operation cannot be completed because the guest password that you entered is not correct.

Explanation

The password that you entered does not match the password that is defined for the guest user ID.

Action

Resubmit the service operation with the defined guest password. If you have forgotten the guest password, connect to the serial port on the storage unit, reset the guest password, and resubmit the service operation with the newly defined guest password. If the problem persists, contact IBM technical support for assistance.

CMUN80103E *SOURCE* You are attempting to take offline a hardware resource that is in the Failed state.

Explanation

A hardware resource that is in the Failed state can be replaced. You are not required to take offline the hardware resource that is in the Failed state.

Action

Remove and replace the hardware resource that is in the Failed state.

CMUN80104E *SOURCE* You are attempting to take offline a hardware resource that is in the Inappropriate state.

Explanation

A hardware resource that is in the Inappropriate state can be replaced. You are not required to take offline the hardware resource that is in the Inappropriate state.

Action

Remove and replace the hardware resource that is in the Inappropriate state.

CMUN80105E *SOURCE* You are attempting to take a hardware resource offline but it is no longer present.

Explanation

You cannot take the hardware resource offline because it does not exist.

Action

No action is required.

CMUN80106E *SOURCE* You are attempting a firmware update operation. The firmware update operation did not complete because the operation timed out.

Explanation

The management console reports that the firmware update operation timed out during the initial preparation stage. The condition that caused the timeout might be temporary.

Action

Ensure that no other firmware update operation is in progress. Wait a few minutes and resubmit the firmware update operation. If the problem persists, contact IBM technical support for assistance.

CMUN80107E *SOURCE* You are attempting a firmware update operation. The firmware update operation did not complete because another firmware update operation is in progress.

Explanation

The management console reports that another firmware update operation is in progress. More than one firmware update operation cannot be in progress at the same time. You cannot initiate another firmware update operation because the system detects that a firmware update operation is already in progress. It is possible that this error is caused by a previous unsuccessful firmware update operation that left the system in a temporary state. If the system is in this temporary state, the system recovers to the normal state after a few hours. You can submit a firmware update operation after the system recovers to the normal state.

Action

Ensure that no other firmware update operation is in progress and resubmit the firmware update operation. If the problem persists, wait three hours and then resubmit the firmware update operation. If the problem still persists, contact IBM technical support for assistance.

CMUN80110E *SOURCE* The management console has failed to establish a connection with the storage units.

Explanation

The microcode update task has completed successfully, but the management console has failed to connect to one or more of the storage units during the time-out window that follows the successful update.

Action

Wait a few minutes and ensure that each of the server enclosure processor cards of the storage units is Connected. If the problem persists, contact IBM technical support for assistance.

Chapter 8. Generic and specific alert traps

SNMP alerts can contain a combination of a generic and a specific alert trap. This list outlines the explanations for each of the possible combinations of generic and specific alert traps.

SNMP alert traps provide information about problems that the storage unit detects. Either you or the service provider must perform corrective action for the following problems, as required:

Generic trap 0 - coldstart

Issued whenever the SNMP agent is reinitializing. Configuration data has changed.

Generic trap 1 - warmstart

Issued whenever the SNMP agent is reinitializing. Configuration data might change.

Generic trap 4 - authenticationFailure

Issued whenever an SNMP message was received but could not be authenticated.

Generic trap 6 - Problem notification and Copy Services traps

The storage unit generates the following specific traps in combination with generic trap 6:

Specific trap 3 - Problem log entry created

This trap displays when a problem log entry is generated in the problem log for the storage unit. The following information is provided for specific trap 3:

```
ssSystemNotifyTrap=yyyy/MM/dd hh:mm:ss tzn
Manufacturer=IBM
ReportingMTMS=ttt-mmm*ppzzzzz
ProbNm=nnnnn
LparName=SFaESSbc
FailingEnclosureMTMS=ttt-mmm*ppzzzzz
SRC=sssssssss
EventText=79 char string
Fru1Loc=71 char string
Fru2Loc=71 char string
Fru3Loc=71 char string
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *ttt-mmm* is the machine type and model number; *ppzzzzz* is the serial number (which is a combination of the plant of manufacture and the sequence number); *nnnnn* is the problem number; *SFaESSbc* is the logical partition name; *sssssssss* is the system reference code (SRC); and *FruNLoc* is the location code of FRU *N*, where *n* is 1, 2, and 3.

Specific trap 100 - Remote mirror and copy links degraded

This trap displays when an established remote mirror and copy path between a primary and secondary logical subsystem pair becomes inoperable, but there is at least one operational path remaining between the two logical subsystems. The following information is provided for specific trap 100:

```

ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm LS
PRI: xxx tttt-ooo pp-zzzzz ll
SEC: xxx tttt-ooo pp-zzzzz ll
Path: Type PP PLink SP SLink RC
1: aaaaa bbbb cccccc dddd eeeee gg
.
.
.
w: aaaaa bbbb cccccc dddd eeeee gg

```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); *ll* is the LSS number in hexadecimal format; *aaaaa* is "ESCON" or "FIBRE"; *bbbb* is the primary I/O port number; *ccccc* is the primary link address in hexadecimal format; *dddd* is the secondary port number for ESCON direct connection or FIBRE (this value is XXXX if you are connected through an ESCON switch); *eeeeee* is the secondary link address in hexadecimal format; *gg* is the reason code in hexadecimal format (see Table 10) if there is a problem (otherwise, *gg* is "OK" if there is no problem); and *w* represents the last of up to 8 path descriptions. Only established paths are listed.

Table 10 lists remote mirror and copy return codes that can appear for *gg*.

Table 10. Remote mirror and copy return codes

Return code	Return code explanation
X'02'	Initialization failed. The ESCON link rejected threshold was exceeded when attempting to send ELP or RID frames.
X'03'	Timeout. No reason is available.
X'04'	There are no resources available in the primary storage unit for establishing logical paths because the maximum number of logical paths have already been established.
X'05'	There are no resources available in the secondary storage unit for establishing logical paths because the maximum number of logical paths have already been established.
X'06'	There is a secondary storage unit sequence number, or logical subsystem number, mismatch.
X'07'	There is a secondary LSS subsystem identifier (SSID) mismatch, or failure of the I/O that collects the secondary information for validation.
X'08'	The ESCON link is offline. This is caused by the lack of light detection coming from a host, peer, or switch.
X'09'	The establish failed. It is retried until the command succeeds or a remove paths command is run for the path. Note: The attempt-to-establish state persists until the establish path operation succeeds or the remove remote mirror and copy paths command is run for the path.

Table 10. Remote mirror and copy return codes (continued)

Return code	Return code explanation
X'0A'	The primary storage unit port or link cannot be converted to channel mode if a logical path is already established on the port or link. The <i>establish paths</i> operation is not retried within the storage unit.
X'10'	Configuration error. The source of the error is one of the following: <ol style="list-style-type: none"> 1. The specification of the secondary adapter ID does not match the installed ESCON adapter in the primary storage unit. 2. For ESCON paths, the secondary storage unit destination address is zero and the ESCON director (switch) was found in the path. 3. For ESCON paths, the secondary storage unit destination address is not zero and an ESCON director does not exist in the path. The path is a direct connection.
X'14'	The fibre-channel path link is down.
X'15'	The maximum number of fibre-channel path retry operations has been exceeded.
X'16'	The fibre-channel path secondary adapter is not remote mirror and copy capable. This could be caused by one of the following conditions: <ul style="list-style-type: none"> • The secondary adapter is not configured properly or does not have the current firmware installed. • The secondary adapter is already a target of 32 different logical subsystems (LSSs).
X'17'	The secondary adapter fibre-channel path is not available.
X'18'	The maximum number of fibre-channel path primary login attempts has been exceeded.
X'19'	The maximum number of fibre-channel path secondary login attempts has been exceeded.
X'1A'	The primary fibre-channel adapter is not configured properly or does not have the correct firmware level installed.
X'1B'	The fibre-channel path established but degraded due to a high failure rate.
X'1C'	The fibre-channel path was removed due to a high failure rate.

Specific trap 101 - Remote mirror and copy links are inoperable

This trap displays when an established remote mirror and copy path between a primary and secondary logical subsystem pair becomes inoperable, and there are no other operational paths between the two logical subsystems. The following information is provided for specific trap 101:

```

ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm LS
PRI: xxx tttt-ooo pp-zzzzz ll
SEC: xxx tttt-ooo pp-zzzzz ll
Path: Type PP PLink SP SLink RC
1: aaaaa bbbb cccccc dddd eeeee gg
.
.
.
w: aaaaa bbbb cccccc dddd eeeee gg

```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone);

-error_description- is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); *ll* is the LSS number in hexadecimal format; *aaaaa* is "ESCON" or "FIBRE"; *bbbb* is the primary I/O port number; *ccccc* is the primary link address in hexadecimal format; *dddd* is the secondary port number for ESCON direct connection or FIBRE (this value is XXXX if you are connected through an ESCON switch); *eeeeee* is the secondary link address in hexadecimal format; *gg* is the reason code in hexadecimal format (see Table 10 on page 408) if there is a problem (otherwise, *gg* is "OK" if there is no problem); and *w* represents the last of up to 8 path descriptions. Only established paths are listed.

Specific trap 102 - Remote mirror and copy links are operational

This trap displays when an established remote mirror and copy path between a primary and secondary logical subsystem pair becomes operational after previously being inoperable. All other established paths between the two logical subsystems are operational. The following information is shown for specific trap 102:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm LS
PRI: xxx ttt-ooo pp-zzzzz ll
SEC: xxx ttt-ooo pp-zzzzz ll
Path: Type PP PLink SP SLink RC
1: aaaaa bbbb cccccc dddd eeeee gg
.
.
.
w: aaaaa bbbb cccccc dddd eeeee gg
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); *ll* is the LSS number in hexadecimal format; *aaaaa* is "ESCON" or "FIBRE"; *bbbb* is the primary I/O port number; *ccccc* is the primary link address in hexadecimal format; *dddd* is the secondary port number for ESCON direct connection or FIBRE (this value is XXXX if you are connected through an ESCON switch); *eeeeee* is the secondary link address in hexadecimal format; *gg* is the reason code in hexadecimal format (see Table 10 on page 408) if there is a problem (otherwise, *gg* is "OK" if there is no problem); and *w* represents the last of up to 8 path descriptions. Only established paths are listed.

Specific trap 200 - LSS pair consistency group remote mirror and copy pair error

This trap displays when the first remote mirror and copy pair that is associated with the consistency group enters the suspended state because of an error. This trap is managed by automation code. Reporting for this trap is reenabled when either of the following conditions occurs:

- An extended long busy timeout occurs on the remote mirror and copy pair that is reported in the SNMP trap.

- A consistency group-created operation is directed to the LSS pair that is associated with the consistency group.

The following information is shown for specific trap 200:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm LS LD SR
PRI: xxx tttt-ooo pp-zzzzz ll jj kk
SEC: xxx tttt-ooo pp-zzzzz ll jj
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); *ll* is the LSS number in hexadecimal format; *jj* is the logical volume number in hexadecimal format; and *kk* is the suspension reason code (SRC) in hexadecimal format.

The suspension reason codes explain the cause of the error that suspended the remote mirror and copy group. Table 11 explains the suspension reason codes.

Table 11. Copy Services suspension reason codes

Suspension reason code (SRC)	SRC explanation
X'03'	The host system sent a command to the primary volume of a remote mirror and copy volume pair to suspend copy operations. The host system might have specified either an immediate suspension or a suspension after the copy completed and the volume pair reached a full duplex state.
X'04'	The host system sent a command to suspend the copy operations on the secondary volume. During the suspension, the primary volume of the volume pair can still accept updates but updates are not copied to the secondary volume. The out-of-sync tracks that are created between the volume pair are recorded in the change recording feature of the primary volume.
X'05'	Copy operations between the remote mirror and copy volume pair were suspended by a primary storage unit secondary device status command. This system resource code can only be returned by the secondary volume.
X'06'	Copy operations between the remote mirror and copy volume pair were suspended because of internal conditions in the storage unit. This system resource code can be returned by the control unit of either the primary volume or the secondary volume.
X'07'	Copy operations between the remote mirror and copy volume pair were suspended when the secondary storage unit notified the primary storage unit of a state change transition to simplex state. The specified volume pair between the storage units is no longer in a copy relationship.
X'08'	Copy operations were suspended because the secondary volume became suspended as a result of internal conditions or errors. This system resource code can only be returned by the primary storage unit.

Table 11. Copy Services suspension reason codes (continued)

Suspension reason code (SRC)	SRC explanation
X'09'	The remote mirror and copy volume pair was suspended when the primary or secondary storage unit was rebooted or when the power was restored. Note: The paths to the secondary storage unit might not be disabled if the primary storage unit was turned off. If the secondary storage unit was turned off, the paths between the storage units are restored automatically, if possible. After the paths have been restored, issue the mkpprc command to resynchronize the specified volume pairs. Depending on the state of the volume pairs, you might have to issue the rmpprc command to delete the volume pairs and reissue a mkpprc command to reestablish the volume pairs.
X'0A'	The remote mirror and copy pair was suspended because the host issued a command to freeze the remote mirror and copy group. This system resource code can only be returned if a primary volume was queried.

Specific trap 202 - Primary remote mirror and copy devices on the LSS were suspended because of an error

This trap displays when one or more primary remote mirror and copy devices become suspended because of an error that occurs over a 5-second period. The trap information indicates first pair to suspend as well as all of the primary devices on the primary logical subsystem that were suspended because of the error. The following information is shown for specific trap 202:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm LS LD SR
PRI: xxx tttt-ooo pp-zzzzz ll jj kk
SEC: xxx tttt-ooo pp-zzzzz ll jj
Start: yyyy/mm/dd hh:mm:ss tzn
PRI Dev Flags (1 bit/Dev, 1=Suspended):
ffffffffffff...ffffffffffff
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); *ll* is the LSS number in hexadecimal format; *jj* is the logical volume number in hexadecimal format; *kk* is the suspension reason code in hexadecimal format; and *ffffffffffff...ffffffffffff* represents 256 1-bit flags, one per primary device on the primary LSS that are shown as a 64-character hexadecimal number. The time indicated on the Start line is the beginning of the error condition period. The time that the alert is sent (as shown on the first line of the trap) indicates the end of the error condition period.

The suspension reason codes explain the cause of the error that suspended the primary remote mirror and copy devices. Table 11 on page 411 explains the suspension reason codes.

Specific trap 210 - Global Mirror initial consistency group successfully formed

This trap displays when the first consistency group in a Global

Mirror configuration has formed successfully. The following information is shown for specific trap 210:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx tttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 211 - Global Mirror session is in a fatal state

This trap displays when an error occurs that prevents the formation of a consistency group and that requires you to correct the problem before you can reform the consistency group. The following information is shown for specific trap 211:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx tttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 212 - Global Mirror consistency group failure - Retry will be attempted

This trap displays when a consistency group fails to form. The storage unit automatically continues to attempt to form a consistency group. The following information is shown for specific trap 212:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx tttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 213 - Global Mirror consistency group successful recovery

This trap displays when a consistency group forms successfully after it had previously failed. The following information is shown for specific trap 213:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn  
-error_description-  
UNIT: Mnf Type-Mod SerialNm  
xxx tttt-ooo pp-zzzzz  
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 214 - Global Mirror master terminated

This trap displays when a Global Mirror master is terminated by a command. The following information is shown for specific trap 214:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn  
-error_description-  
UNIT: Mnf Type-Mod SerialNm  
xxx tttt-ooo pp-zzzzz  
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 215 - Global Mirror FlashCopy at remote site unsuccessful

This trap displays when the FlashCopy operation at the remote site failed in a Global Mirror configuration. The following information is shown for specific trap 215:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn  
-error_description-  
UNIT: Mnf Type-Mod SerialNm  
Master: xxx tttt-ooo pp-zzzzz  
Slave: xxx tttt-ooo pp-zzzzz  
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 216 - Global Mirror slave termination unsuccessful

This trap displays when a Global Mirror master receives a Terminate command and is unable to terminate a Global Mirror slave. The following information is shown for specific trap 216:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn  
-error_description-  
UNIT: Mnf Type-Mod SerialNm  
Master: xxx tttt-ooo pp-zzzzz  
Slave: xxx tttt-ooo pp-zzzzz  
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 217 - Global Mirror paused

This trap displays when Global Mirror is paused because of a command received by the Global Mirror master. The following information is shown for specific trap 217:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx ttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 218 - Global Mirror number of consistency group failures exceed threshold

This trap displays when Global Mirror has exceeded the allowed threshold for failed consistency group formation attempts. The following information is shown for specific trap 218:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx ttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 219 - Global Mirror first successful consistency group after prior failures

This trap displays when Global Mirror has successfully formed a consistency group after one or more formation attempts had previously failed. The following information is shown for specific trap 219:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn
-error_description-
UNIT: Mnf Type-Mod SerialNm
xxx ttt-ooo pp-zzzzz
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *ttt-ooo* is the machine type and model number; *pp-zzzzz* is the

serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

Specific trap 220 - Global Mirror number of FlashCopy commit failures exceed threshold

This trap displays when Global Mirror has exceeded the allowed threshold of failed FlashCopy commit attempts. The following information is shown for specific trap 220:

```
ssEventDescr=yyyy/MM/dd hh:mm:ss tzn  
-error_description-  
UNIT: Mnf Type-Mod SerialNm  
xxx tttt-ooo pp-zzzzz  
Session ID: qqqq
```

where *yyyy/MM/dd hh:mm:ss tzn* is the time that the alert was sent (year, month, day, hour, minute, second, and time zone); *-error_description-* is the event description; *xxx* is the manufacturer; *tttt-ooo* is the machine type and model number; *pp-zzzzz* is the serial number (a combination of the plant of manufacture and the sequence number); and *qqqq* is the session identifier.

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 DS8000 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 DS8000 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 DS8000 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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VS07171L

Glossary

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.
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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.
- 1750** 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 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.

A

- access** 1) To obtain computing services or data.
- 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*.

array An ordered collection, or group, of 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*.

B

bay The physical space that is used for installing SCSI, ESCON, and fibre-channel host adapter cards. The DS8000 has four bays, two in each cluster. See also *service boundary*.

bit The smallest unit of computer information, which has two possible states that are represented by the binary digits 0 or 1. See also *byte*.

block A string of data elements recorded or transmitted as a unit. The elements may be characters, words, or physical records. (GC)

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 A string that represents a character and usually consists of eight binary digits that are treated as a unit. A byte is the smallest unit of storage that can be addressed directly. (GC) 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. (GC)

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 storage product and a service provider. The storage product 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. (GC) 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), pertaining 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 DS8000 sends to it.

CCR See *channel command retry*.

CCW See *channel command word*.

CD See *compact disc*.

central electronics complex

The set of hardware facilities that are associated with a host computer.

channel

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)

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)

A data structure that specifies an I/O operation to the channel subsystem.

channel path

The interconnection between a channel and its associated control units.

channel subsystem

The part of a host computer that manages I/O communication between the program and any attached control units.

channel-subsystem image

In mainframe computing, 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. (GC)

CKD See *count key data*.

CLI See *command-line interface*. See also *Copy Services command-line interface*.

cluster

1) A partition capable of performing all DS8000 functions. With two clusters in the DS8000, any operational cluster can take over the processing of a failing cluster.

cluster processor complex

The unit within a cluster that provides the management function for the DS8000. It consists of cluster processors, cluster memory, and related logic.

command-line interface (CLI)

An interface 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 DS8000 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)

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 code

Process of installing licensed internal code on a DS8000 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 devices, optional features, and program products of the input/output 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

In mainframe computing, 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. (GC)

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

In mainframe computing, 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 DS8000 can emulate 3990-3, TPF, 3990-6, or 2105 control units.

control-unit-initiated reconfiguration (CUIR)

A software mechanism that the DS8000 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 DS8000 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 domain

See *Copy Services server group*.

Copy Services client

Software that runs on each DS8000 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 DS8000 Copy Services and used for invoking Copy Services functions from host systems attached to the DS8000. See also *command-line interface*.

Copy Services server

A cluster that the Copy Services administrator designates to perform the DS8000 Copy Services functions.

Copy Services server group

A collection of user-designated DS8000 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. See also *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)

In mainframe computing, 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*.

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 DS8000, 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 DS8000 that provides communication between the clusters and the storage devices. The DS8000 has eight device adapters that it deploys in pairs, one from each cluster. Device adapter pairing enables the DS8000 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 DS8000 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 drive set

A specific number of identical disk drives that have the same physical capacity and rpm.

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.

DS8000

See *IBM TotalStorage DS8000*.

DS8000 Batch Configuration tool

A program that automatically configures a DS8000. 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.

E

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*.

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*.

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

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 DS8000 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 DS8000. 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*.

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.

FATA See *fibre-channel ATA*.

FBA See *fixed-block architecture*.

FC See *feature code*. **Note:** *FC* is a common abbreviation for fibre channel in the industry, but the DS8000 customer documentation library reserves *FC* for feature code.

FC-AL See *Fibre Channel ATA*.

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 DS8000 supports data transmission over fiber-optic cable through its fibre-channel adapters. See also *Fibre Channel Protocol* and *Fibre Channel standard*.

fibre-channel ATA (FATA)

A hard drive that combines a fibre channel interface with an ATA drive. FATAs, which provide the high

performance and capacity of an ATA drive, can be used wherever fibre channel drives can connect.

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. This topology directly connects the storage unit to an open systems host without going through a fabric switch.

Fibre Channel Connection (FICON)

A fibre-channel communications protocol that is designed for IBM mainframe computers and peripherals. It connects the storage unit to one or more S/390 hosts using a FICON S/390 channel either directly or through a FICON switch.

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 SBICON 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*.

Fibre Channel Switched Fabric (FC-SF)

An implementation of the Fibre Channel Standard that connects the storage unit to one or more open systems hosts through a fabric switch or connects one or more

S/390 hosts that run LINUX on an Fibre Channel Protocol S/390 channel.

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 DS8000. 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 DS8000 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 DS8000 remote mirror and copy feature that maintains a fuzzy copy of a logical volume on the same DS8000 or on another DS8000. 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 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 DS8000 documentation, a nickname for two different kinds of groups, depending on the context. See *disk pack* or *Copy Services server group*.

H

HA See *host adapter*.

HACMP

See *high availability cluster multiprocessing*.

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

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 disk assembly*.

HDD See *hard disk drive*.

hdisk An AIX term for storage space.

head 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 DS8000. 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 multiprocessing (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 loop (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 the DS8000. Hosts are connected through ESCON, FICON, 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 loop*.

I

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 DS8000 clusters.

IBM TotalStorage

The brand name used to identify storage products from IBM, including the IBM

TotalStorage DS8000. See also *IBM TotalStorage DS8000* and *IBM TotalStorage DS Storage Manager*.

IBM TotalStorage DS8000

A member of the IBM TotalStorage Resiliency Family of storage servers and attached storage devices (disk drive modules). The DS8000 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 DS8000.

IBM TotalStorage DS Storage Manager (DS Storage Manager)

Software with a Web-browser interface for configuring the DS8000.

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 DS8000. It includes a Web browser that provides links to the user interface, including the DS Storage Manager and the DS8000 Copy Services.

IBM System Storage Multipath Subsystem Device Driver (SDD)

IBM software that provides multipath configuration support for a host system that is attached to storage devices. SDD provides enhanced data availability, dynamic input/output load balancing across multiple paths, and automatic path failover protection.

IBM TotalStorage Resiliency Family

A set of hardware and software features and products, as well as integrated software and services that are available on the IBM TotalStorage DS8000 and the IBM TotalStorage Enterprise Storage Server, Models 750 and 800.

image See *storage image*.

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 queued in processor memory waiting for previous I/Os to the same volume to complete.

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, 2^{10} or 1024 bytes.

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*.

L

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*.

licensed machine code

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 DS8000 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 DS8000) 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. (DS8000 series only)

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 DS8000 can have (if CDK only) up to 32 CKD-formatted logical subsystems (8192

CKD logical devices) or (if FBA only) up to 32 fixed-block logical subsystems (8192 fixed-block logical devices). If mixed CKD and FBA, a DS8000 can have up to 16 CKD-formatted logical subsystems (4096 CKD logical devices) and up to 16 fixed-block logical subsystems (4096 fixed-block logical devices). The logical subsystem facilitates configuration of the DS8000 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 DS8000 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 DS8000 uses for locating errors. The LRC checks the data

as it progresses from the host, through the DS8000 controller, into the device adapter, and to the array.

longwave laser adapter

A connector that is used between a host and the DS8000 to support longwave fibre-channel communication.

loop The physical connection between a pair of device adapters in the DS8000. 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, 2^{20} 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

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 DS8000, the transfer of data from one storage unit to another, such as from a 3390 to the DS8000.

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*.

MTBF See *mean time between failures*.

Multipath Subsystem Device Driver

See *IBM TotalStorage DS8000 Multipath Subsystem Device Driver*.

multiple allegiance

A DS8000 hardware function that is independent of software support. This function enables multiple system images to concurrently access the same logical volume on the DS8000 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 DS8000 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 aDS8000 can be attached.

multiprocessor

A computer that includes two or more processors that have common access to a main storage. For the DS8000, the multiprocessors operate in parallel.

MVS See *multiple virtual storage*.

N

name server

A server that stores names of the participating DS8000 clusters.

near-line

A type of intermediate storage between online storage (which provides constant, rapid access to data) and offline storage (which provides infrequent data access for backup purposes or long-term storage).

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)

node The unit that is connected in a fibre-channel network. A DS8000 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*.

O

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 DS8000, such systems are those hosts that connect to the DS8000 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 DS8000 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 DS8000 (through cabling and switches) to a host adapter on another DS8000.

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 DS8000 to hosts, switches, or another DS8000. The DS8000 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 DS8000 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 DS8000, 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 DS8000 and that has access to at least one volume that is configured on the DS8000. 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 DS8000 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 DS8000 automatically reserves spare disk drives when it assigns arrays to a device adapter pair (DA pair). See also *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 DS8000 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 DS8000 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 DS8000. See also *Fibre Channel Protocol* and *small computer system interface*.
- SCSI host systems**
Host systems that are attached to the DS8000 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 DS8000 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 DS8000, 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 DS8000. 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 DS8000. This term also refers to a service provider, a service representative, or an IBM service support representative (SSR). An IBM SSR installs the DS8000.
- 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 DS8000 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 DS8000 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 image**
A partitioning of a storage unit that provides emulation of a storage server with one or more storage devices that provides storage capability to a host computer. You can configure more than one storage image on a storage unit. (DS8000 series only)
- 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 DS8000 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. The DS8000 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 DS8000 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.

T

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*.

terabyte (TB)

1) Nominally, 1 000 000 000 000 bytes, which is accurate when speaking of bandwidth and disk storage capacity.

2) For DS8000 cache memory, processor storage, real and virtual storage, a terabyte refers to 2^{40} 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*.

V

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 nonremovable-medium 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*.

zoning

In fibre-channel environments, the grouping of multiple ports to form a virtual, private, storage network. Ports that are members of a zone can communicate with each other, but are isolated from ports in other zones.

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 DS8000 as connected to zSeries servers.

Readers' comments — we would like to hear from you

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Messages Reference
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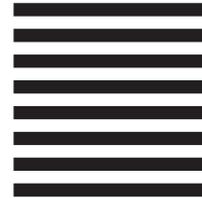
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