

IBM TotalStorage[®] DS6000



Administering

IBM TotalStorage[®] DS6000



Administering

Note:

Before using this information and the product it supports, read the information in "Notices" on page 19.

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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 System Storage Solutions Safety Notices for IBM Versatile Storage Server and IBM System Storage Enterprise Storage Server*, GC26-7229.

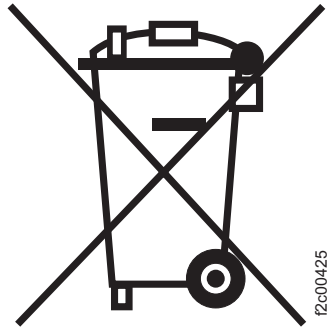
Environmental notices

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>.



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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.

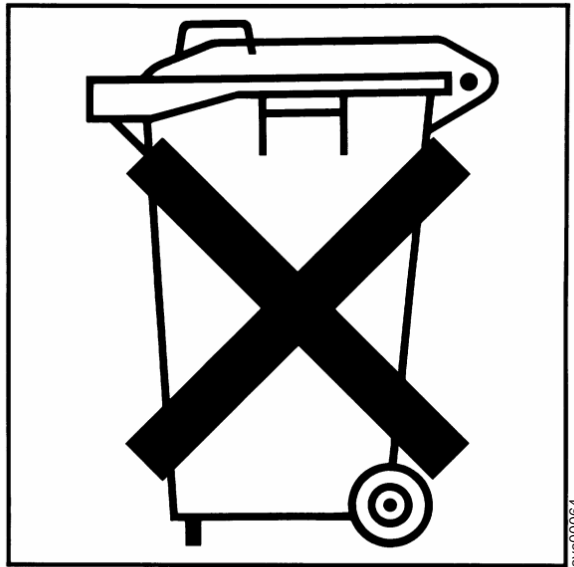
In accordance with the European WEEE Directive, electrical and electronic equipment (EEE) is to be collected separately and to be reused, recycled, or recovered at end of life. Users of EEE with the WEEE marking per Annex IV of the WEEE Directive, as shown above, must not dispose of end of life EEE as 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/index.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

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

- e-mail

Submit your comments electronically to the following e-mail address:

starpubs@us.ibm.com

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

- Mail

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

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

Chapter 1. Administering user accounts

The topics in this section provide information related to administering your DS6000 user accounts. If you have administrator level privileges, you can add a new user account, delete an existing user account, or modify the user name, password, and group for a user account. There might be times when users forget the password that they use to access the DS Storage Manager. After going beyond the set number of allowable attempts with the wrong password, the account is locked. The administrator can unlock a user account. If the Admin account is locked, the administrator must use the security recovery utility tool. If you do not have administrator level privileges, your account administration privileges are limited to entering a new password for your own user ID.

Chapter 2. Adding user accounts

You must have Administrator level privileges to add a new user account. If you do not have Administrator level privileges, Add does not display in the **Select Action** drop-down box of the User administration - Main page. You can also add a user account with the **mkuser** DS Command-Line Interface command. See DS CLI documentation for more information.

1. Under **Monitor system**, select **User administration**. In User administration — Main page, select **Add** in the **Select Action** drop-down box. Then click **Go**. The Add user page is displayed.
2. Specify the user name. You can enter up to 16 characters.
3. Specify the user account password. This entry is displayed as asterisks. Passwords must meet the following criteria:
 - Be six to 16 characters long.
 - Must contain five or more letters, and it must begin and end with a letter.
 - Must contain one or more numbers.
 - Cannot contain the user's user ID.
 - Is case-sensitive.
 - Four unique new passwords must be issued before an old password can be reused.
4. Retype the password in the **Confirm password** box. This entry must match the password entry above. Characters in this field appear as asterisks.
5. Assign a group role to the user account by selecting the appropriate group in the **Group assignment** boxes.
6. Click **Ok**. The user ID that you added is available for selection in the User administration — Main Page.

Chapter 3. Modifying user accounts

If you have Administrator level privileges, you can modify the user name, password, and group for a user account. If you do not have Administrator level privileges, you can only enter a new password for your own user ID. You can also modify a user account with the **chuser** DS Command-Line Interface command. See DS CLI documentation for more information.

The password and its use must meet the following criteria:

- Be six to 16 characters long.
 - Must contain five or more letters, and it must begin and end with a letter.
 - Must contain one or more numbers.
 - Cannot contain the user's user ID.
 - Is case-sensitive.
 - Four unique new passwords must be issued before an old password can be reused.
1. Under **Monitor system**, select **User administration**. In User administration — Main page, select **Modify** in the **Select Action** drop-down box. Then click **Go**. The Modify user page is displayed.
 2. To modify the user name, enter up to 16 characters. If you do not have Administrator level privileges, your user name appears in the **User name** box by default and you are not able to modify it.
 3. Specify the user account password. 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. This entry will appear as asterisks.
 4. Retype the password in the **Confirm password** box. This entry must match the password entry above. Characters in this field appear as asterisks.
 5. Assign a group role to the user account by selecting the appropriate group in the **Group assignment** box.
 6. Click **Ok**. The properties for the user account are immediately modified.

Chapter 4. Unlocking a user account

There might be times when users forget the password that they use to access the DS Storage Manager. Beyond the set number of allowable attempts with the wrong password, the account is locked. To unlock a user's account, the administrator can use the unlock user process. If the Administrator account is locked, the Administrator must use the security recovery utility tool. You can also unlock a user account with the **chuser** DS Command-Line Interface command. See DS CLI documentation for more information.

You must have administrator-level privileges to unlock a user's account. If you do not have administrator-level privileges, you cannot unlock a user account or use the security recovery tool to unlock the Administrator account.

Note: This task only explains how to use the unlock user process. The Unlocking an administrative password task describes how to use the security recovery utility tool to unlock the Administrator account.

1. Under **Monitor system**, select **User administration**. In User administration — Main page, select the user ID to unlock.
2. Select **Unlock user** in the **Select Action** drop-down box. Then click **Go**. A confirmation message is displayed.
3. Click **OK**. The Account Status column updates accordingly.

Chapter 5. Removing user accounts

If you have Administrator level privileges, you can remove an existing user account. If you do not have Administrator level privileges, Delete does not display in the **Select Action** drop-down box of the User administration — Main page. You can also remove a user account with the **rmuser** DS Command-Line Interface command. See DS CLI documentation for more information.

1. Under **Monitor system**, select **User administration**. In User administration — Main page, select the user ID to remove.
2. Select **Delete** in the **Select Action** drop-down box. Then click **Go**. A confirmation message is displayed.
3. Click **Ok**. The user ID is removed immediately.

Chapter 6. Defining password rules

Complete this task to set the length of time that passwords are valid and the maximum allowed failed logins.

You must have administrator-level privileges to define password rules. If you do not have administrator-level privileges, Password settings does not display in the **Select Action** drop-down menu of the User administration — Main page.

The password and its use must meet the following criteria:

- Be six to 16 characters long.
 - Must contain five or more letters, and it must begin and end with a letter.
 - Must contain one or more numbers.
 - Cannot contain the user's user ID.
 - Is case-sensitive.
 - Four unique new passwords must be issued before an old password can be reused.
 - Allowable characters are: a-z, A-Z, 0-9.
1. Under **Monitor system**, select **User administration**. In User administration — Main page, select **Password settings** in the **Select Action** drop-down box. Then click **Go**. The Password settings page is displayed.
 2. Specify the number of days after that a password expires in the **Password expires (days)** field. An entry of 0 will result in passwords never expiring.
 3. Specify the number logins after which no more attempts are allowed in the **Failed logins allowed** field. An entry of 0 will allow an unlimited number of attempts.
 4. Click **Ok**. The password setting are immediately applied.

Chapter 7. User Groups

User groups (or roles) are a level of access that is assigned by the administrator, which allows users to perform certain functions. User groups are created using the DS Storage Manager or the CLI.

When a user account is created, the administrator must specify an initial password for the account. This initial password expires immediately which means that the account users must change the password before they are allowed to perform any other actions. This is also true for all account roles, including Administrators.

The user must be assigned to at least one group or role. Users can be assigned to multiple groups or combinations of groups. Groups with the label No Access (only) cannot be selected in combination with another group.

Administrators can make the following user group assignments (Table 1 on page 14 provides specific capabilities for each user group):

Administrator (only)

Must be the only assigned group. This user group has the highest level of authority. It allows a user to add or remove user accounts. This group has access to all service functions and DS6000 resources.

Physical operator (only)

Must be the only assigned group. This user group allows access to resources that are related to physical configuration, including storage complex, storage unit, storage image, management console, arrays, ranks, and extent pools. The physical operator group does not have access to security functions.

Logical operator

Can be assigned in combination with the Copy Services operator group, but not in combination with any other group. This group has access to service functions and resources that relate to logical volumes, hosts, host ports, logical subsystems, and volume groups, excluding security functions.

Copy Services Operator

Can be assigned in combination with the Logical operator group, but not in combination with any other group. This group has access to all Copy Services service functions and resources, excluding security functions.

Monitor (only)

Must be the only assigned group. This group has access to all read-only, nonsecurity service functions and all DS6000 resources.

Service Operator

This group has access to all service related DS6000 service functions and resources (for example, performing a code load, and retrieving problem logs). This user group inherits all authority of the Monitor group.

No Access (only)

The default selection. Must be the only assigned group. This group has no access to any service functions or DS6000 resources. This is the user group that is assigned to a user account that is not associated with any other user group.

Table 1. User Group capabilities

Capability	Administrator	Physical Operator	Logical Operator	Copy Services Operator	Monitor	Service Operator	No Access
User account management	X						
Access audit log	X						
Update storage complex	X	X					
Power on/off storage image	X	X					
Update storage unit	X	X					
Update storage image	X	X					
Warmstart storage image	X	X					
Manage arrays, ranks, extent pools	X	X					
I/O port configuration	X	X					
Configuration recovery services (unfence volumes, discard pinned tracks, repair ranks,...)	X	X					
Host configuration	X	X	X				
Logical subsystem configuration	X	X	X				
Volume configuration	X	X	X				
Add or remove volume group	X	X	X				
Assign or unassign volume group to host connection	X	X	X				
Add or remove volumes to volume group	X	X	X				
Manage Copy Services (FlashCopy, PPRC, Global Mirror)	X	X		X			
Set Copy Services timeout values	X	X		X			

Table 1. User Group capabilities (continued)

Capability	Administrator	Physical Operator	Logical Operator	Copy Services Operator	Monitor	Service Operator	No Access
Update user account password	X	X	X	X	X	X	
Query FRUs and enclosures	X	X	X	X	X	X	
Query configuration	X	X	X	X	X	X	
Query Copy Services	X	X	X	X	X	X	
FRU management	X	X				X	
Problem management	X	X				X	
Validate communication paths	X	X				X	
Activate code load	X	X				X	
Create a new PE package	X	X				X	
Manage storage unit IP addresses	X						

Chapter 8. Unlocking an administrative password

There might be times when administrative users forget the password that they use to access the DS Storage Manager. Beyond the set number of allowable attempts with the wrong password, the account is locked. If the administrative account is locked, the administrator must use the security recovery utility tool to reset the password to the default (administrative). You cannot unlock an administrative password using the DS Command-Line Interface. The administrative user is forced to establish a new password. Using the **chuser** command, you can specify a password that expires after the initial use, and then create a new password. See DS CLI documentation for more information.

Notes:

1. This security recovery utility tool only unlocks the administrative account on the DS Storage Manager on which the tool is run.
 2. This task only explains how to use the security recovery utility tool to unlock the administrative account. The topic "Unlocking a user account" describes how to unlock a non-administrative user account.
 3. The security recovery utility tool is a script that is installed in a file directory. You run the script from the directory.
1. Open a command prompt and navigate to the C:\Program Files\IBM\dsniserver\bin\ directory where the recovery tool (script) has been installed.
 2. Type the script name, securityRecoveryUtility.bat -r
 3. Press the **Enter** key. The script runs and the administrative account is unlocked. The password is reset to the default (admin).

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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 System Storage[™] DS6000 information:

- You can use screen-reader software and a digital speech synthesizer to hear what is displayed on the screen. IBM Home Page Reader version 3.0 has been tested.
- You can operate features using the keyboard instead of the mouse.

Navigating by keyboard

You can use keys or key combinations to perform operations and initiate menu actions that can also be done through mouse actions. You can navigate the IBM System Storage DS6000 information from the keyboard by using the shortcut keys for your browser or Home Page Reader. See your browser Help for a list of shortcut keys that it supports. See the following Web site for a list of shortcut keys supported by Home Page Reader: http://www-306.ibm.com/able/solution_offerings/keyshort.html

Accessing the publications

You can find HTML versions of the IBM System Storage DS6000 information at the following Web site: <http://www.ehonet.ibm.com/public/applications/publications/cgi-bin/pbi.cgi>

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Industry Canada compliance statement

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conform à la norme NMB-003 du Canada.

European Union EMC Directive conformance statement

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This product has been tested and found to comply with the limits for Class A Information Technology Equipment according to CISPR 22/European Standard EN 55022. The limits for Class A equipment were derived for commercial and industrial environments to provide reasonable protection against interference with licensed communication equipment.

Attention: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

European community contact:

IBM Technical Regulations
Pascalstr. 100, Stuttgart, Germany 70569
Telephone: 0049 (0)711 785 1176
Fax: 0049 (0)711 785 1283
E-mail: tjahn@de.ibm.com

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Korean Ministry of Information and Communication (MIC) statement

Please note that this device has been certified for business use with regard to electromagnetic interference. If you find this is not suitable for your use, you may exchange it for one of residential use.

Taiwan class A compliance statement

警告使用者:

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

VS07171L

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