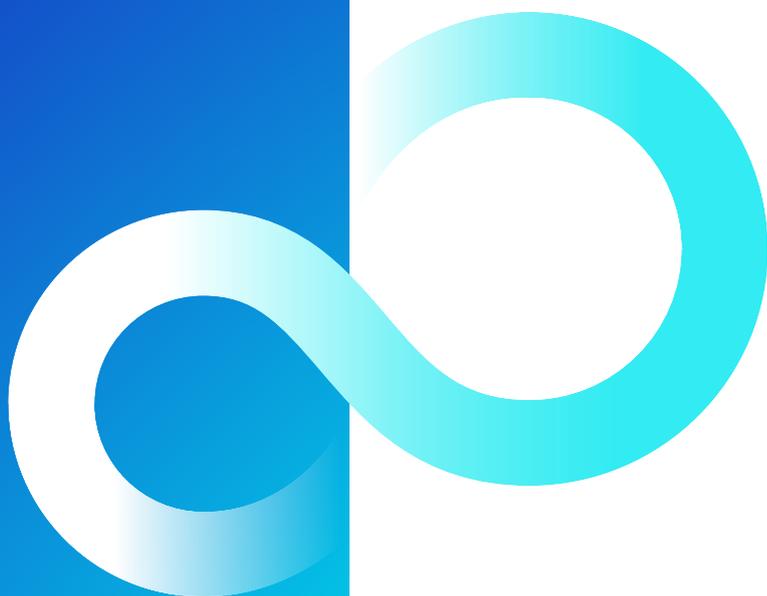


**Fujitsu Storage**  
**ETERNUS DX S6 series**  
**Web GUI User's Guide**  
**(Easy Administration View)**

Settings/operations via Web GUI



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# Preface

This manual provides operational information on how to operate the Fujitsu Storage ETERNUS DX S6 Hybrid Storage Systems via ETERNUS Web GUI (Easy Administration View) (hereinafter referred to as "Easy Administration View").

This manual is written for controller firmware versions V12L10 and later.

First Edition

June 2024

## Acknowledgments

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Third-party trademark information related to this product is available at:

<https://www.fujitsu.com/global/products/computing/storage/eternus/trademarks.html>

## About This Manual

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## Intended Audience

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This manual is intended for system administrators who configure and perform operation management of the ETERNUS DX. Refer to this manual as required.

## Target Models

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Product name	Model name
Hybrid Storage Systems	ETERNUS DX600 S6/DX900 S6
	ETERNUS DX8100 S6/DX8900 S6

## Related Information and Documents

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The latest information for your model is available at:

<https://www.fujitsu.com/global/support/products/computing/storage/manuals-list.html>

# The Structures and Contents of ETERNUS Web GUI Manuals

The ETERNUS Web GUI manual is composed of the following three manuals.

- Configuration Guide (Basic Setup)
- Web GUI User's Guide
- Web GUI User's Guide (Easy Administration View) (this manual)

The following table describes the contents of each manual.

Manual name	Contents
Configuration Guide (Basic Setup)	This manual describes the installation and the environmental settings for the storage systems.
Web GUI User's Guide	This manual describes the procedures, setup parameters, input conditions, and the default values for ETERNUS GUI that are not described in "Configuration Guide (Basic Setup)". In addition, this manual describes how to check the states during operation and how to check the parameters during the configuration of the storage system.
Web GUI User's Guide (Easy Administration View)	This manual describes how to use ETERNUS Web GUI (Easy Administration View), its operating procedures, and the items that are displayed on the screen.

## Document Conventions

### ■ Third-Party Product Names

- Oracle Solaris may be referred to as "Solaris", "Solaris Operating System", or "Solaris OS".
- Microsoft® Windows Server® may be referred to as "Windows Server".
- Trademark symbols such as ™ and ® are omitted in this manual.

### ■ Notice Symbols

The following notice symbols are used in this manual:

#### Caution

Indicates information that you need to observe when using the storage system. Make sure to read the information.

#### Note

Indicates information and suggestions that supplement the descriptions included in this manual.

#### Information

Describes the supplementary explanations of the operating specifications and restrictions, unlike when using Web GUI (Normal View).

**■ Abbreviations Used in This Manual**

ETERNUS DX Hybrid Storage Systems are hereinafter referred to as "storage system" or "ETERNUS DX (storage systems)". For other models, refer to the following table.

Target model	Naming convention
ETERNUS DX600 S6/DX900 S6, ETERNUS DX8100 S6/DX8900 S6 Hybrid Storage Systems	ETERNUS DX ETERNUS DX S6 series
ETERNUS DX8100 S6/DX8900 S6 Hybrid Storage Systems	ETERNUS DX8000 S6 series
ETERNUS AF150 S3/AF250 S3/AF650 S3, ETERNUS AF250 S2/AF650 S2, ETERNUS AF250/AF650, ETERNUS DX600 S6/DX900 S6, ETERNUS DX8100 S6/DX8900 S6, ETERNUS DX60 S5/DX100 S5/DX200 S5, ETERNUS DX500 S5/DX600 S5/DX900 S5, ETERNUS DX60 S4/DX100 S4/DX200 S4, ETERNUS DX500 S4/ DX600 S4, ETERNUS DX8100 S4/DX8900 S4, ETERNUS DX60 S3/DX100 S3/DX200 S3, ETERNUS DX500 S3/DX600 S3, ETERNUS DX8100 S3/DX8700 S3/DX8900 S3, ETERNUS DX200F, ETERNUS DX90 S2, ETERNUS DX410 S2/DX440 S2, ETERNUS DX8100 S2/DX8700 S2, ETERNUS DX90, ETERNUS DX410/ DX440, ETERNUS DX8100/DX8400/DX8700, ETERNUS4000/ETERNUS8000, ETERNUS6000	ETERNUS storage system

**■ Units in This Manual**

Except as otherwise noted, the following units are used in this manual:

- Drive capacity assumes that 1 KB = 1000 bytes, 1 MB = 1000 KB, 1 GB = 1000 MB, and 1 TB = 1000 GB (example: "600 GB drive").
- Other capacities (such as for RAID Groups and volumes) assume that 1 KB = 1024 bytes, 1 MB = 1024 KB, 1 GB = 1024 MB, and 1 TB = 1024 GB.

Note that the screen shots in this manual were captured during development of the software and the actual screens may be different.

Microsoft product screen shot(s) reprinted with permission from Microsoft Corporation.

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# 1. Web GUI (Easy Administration View)

## Overview

### ■ What is Web GUI (Easy Administration View)?

Web GUI is a Web application which supports the setting modifications and the maintenance operations of the ETERNUS DX S6 series.

Web GUI has two display modes (views).

Easy Administration View is one of the display modes (views) supported by Web GUI.

Because Easy Administration View is designed to enable system operation and management in an intuitive manner, it can be used by customers with little knowledge about storage systems or by customers who want simple system operation and management.

However, the advanced setting functions and the maintenance functions used by maintenance engineers are not supported. For customers with enough knowledge about storage systems and field engineers who perform maintenance, using Web GUI (Normal View or existing Web GUI) is recommended.

The following shows the features of the two display modes (views) for Web GUI.

	Target user	Feature	Disadvantages
Easy Administration View	<ul style="list-style-type: none"><li>• Customers with little knowledge about storage systems</li><li>• Customers who want to use the functions specifically for Easy Administration View</li><li>• Customers who want simple system operation and management</li><li>• Tenant users</li></ul>	<ul style="list-style-type: none"><li>• User friendly screen designs</li><li>• Intuitive host connection functions and system status checking functions</li><li>• Dashboard for quickly checking the system status at a glance</li></ul>	<ul style="list-style-type: none"><li>• Detailed settings are not available</li><li>• Because the maintenance functions and the initial setting functions are not available, operations only with Easy Administration View are not allowed</li></ul>
Normal View (Existing Web GUI)	<ul style="list-style-type: none"><li>• Customers with enough knowledge about storage systems</li><li>• Customers who want use the advanced setting functions and the tuning functions</li><li>• Customers who want to use the functions used by maintenance engineers</li><li>• Customers who are preparing the environment in advance before using Easy Administration View</li></ul>	<ul style="list-style-type: none"><li>• All the detailed setting parameters and the performance tuning functions are supported and can be used to configure an appropriate environment for various situations</li><li>• Maintenance functions such as log collection, component replacement, and firmware management are supported</li></ul>	<ul style="list-style-type: none"><li>• Taking full advantage of Web GUI is difficult without an in-depth understanding about storage systems</li><li>• Not available for tenant users</li></ul>

### ■ Acknowledgments

- Microsoft, Windows, and Windows Server are either registered trademarks or trademarks of Microsoft Corporation in the United States and other countries.
- Other company names, product names, and service names are registered trademarks or trademarks of their respective owners.
- The latest trademark information related to this product is available at:  
<https://www.fujitsu.com/global/products/computing/storage/eternus/trademarks.html>

### ■ Caution

- "ETERNUS Web GUI" is referred to as "Web GUI", "ETERNUS CLI" is referred to as "CLI", and "ETERNUS RESTful API" is referred to as "RESTful API" in this manual.
- The content of this manual is subject to change without notice.

- This manual was prepared with the utmost attention to detail. However, Fujitsu shall assume no responsibility for any operational problems as the result of errors, omissions, or the use of information in this manual.
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## 2. Advance Preparation

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This chapter describes the advance preparations required for using Easy Administration View.

- "Notes for Easy Administration View" (page 9)
- "Web Browsers" (page 9)
- "Storage System" (page 11)

### Notes for Easy Administration View

---

#### ■ Operating Environment

##### Web Browsers

The web browsers supported by Easy Administration View are as follows:

- Google Chrome 99
- Microsoft® Edge 99

##### Screen Resolution

1280 × 1024 pixels or more is recommended.

#### ■ Notes for Using Easy Administration View

Note the following points when using Easy Administration View:

- If the Web Console is being used, do not use the screen transition buttons of each web browser (for example, the [Back] button, the [Forward] button, and the [Refresh] button), the screen reload key (for example, the [F5] key), or the [Back Space] (back) key. If these buttons are used, the screen may not transition correctly.
- If the Web Console is being used, do not use the [Duplicate Tab] button of each web browser. If this button is used, the screen may not operate correctly.

### Web Browsers

---

This section describes the required settings for the web browser to connect to Easy Administration View.

#### ■ JavaScript Settings

Easy Administration View uses JavaScript. If JavaScript is disabled in the web browser, enable it. Because it is enabled by default, JavaScript does not need to be enabled unless the user disabled the setting. For the procedure to enable JavaScript, refer to the Help of the browser.

#### ■ Proxy Settings

The performance is not guaranteed when accessing Easy Administration View via the proxy server. If a proxy is being used, add the storage system address to the proxy exception list in the Network Settings.

## ■ Cache Settings

If old cache information is being used by the web browser, it may cause unexpected behavior. Set the web browser to clear the cache when it is closed. The following shows the procedure.

- For Microsoft® Edge

- 1 Click  ("Settings and more") on the top right of the screen > "Settings" > "Privacy, search, and services".
- 2 Under "Clear browsing data", click "Choose what to clear".
- 3 Click "Cached images and files".

- For Google Chrome

- 1 Click  ("More") on the top right of the screen > "Settings" > "Privacy and security".
- 2 Click "Cookies and other site data".
- 3 Turn on "Clear cookies and site data when you close all windows".

## ■ Microsoft Defender SmartScreen

If Microsoft Defender SmartScreen is enabled, it may cause unexpected behavior. To use Microsoft® Edge, disable Microsoft Defender SmartScreen. The following shows the procedure.

- 1 Click  ("Settings and more") on the top right of the screen > "Settings" > "Privacy, search, and services".
- 2 Under "Security", turn off "Microsoft Defender SmartScreen".

## ■ HTTPS Communication

Easy Administration View uses HTTPS. To use a self-signed SSL certificate, advanced browser settings are not required. However, a warning message related to the security certificate appears. To use the certificate issued by the certificate authority, register the certificate in the web browser. The SSL server key that is required to issue certificates can be obtained in Web GUI (Normal View). Refer to "Web GUI User's Guide" for details.

## ■ Cookie Settings

Easy Administration View uses cookies for screen control. If cookies are blocked on the browser, change the setting to allow the browser to save and read cookies.

Because they are not blocked by default, the cookie setting does not need to be enabled unless the user changed the setting.

For the procedure to change the cookie setting, refer to the Help of the browser.

## Storage System

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Before using Easy Administration View, use Web GUI (Normal View) or CLI to complete the initial settings of the storage system and the advance preparations required to use Easy Administration View. The "initial setting" indicates the required operations (such as enabling Thin Provisioning, enabling the deduplication/ compression function, registering the Advanced Copy license, and configuring networks) regardless of whether Easy Administration View is used.

The initial setting is not available in Easy Administration View. Refer to "Configuration Guide (Basic Setup)" for details.

The following shows the procedure to use Easy Administration View after performing the initial setting.

**1** Enable the HTTPS connection to Web GUI.

To connect to Easy Administration View, HTTPS connections must be enabled. Use Web GUI (Normal View) or CLI to register the SSL server key and the SSL server certificate (or self-signed SSL certificate) and enable the HTTP connection.

**2** Enable RESTful API.

Easy Administration View uses RESTful API to obtain and change the storage system information. Use Web GUI (Normal View) or CLI to enable RESTful API.

In addition, RESTful API uses port 5665 for TCP communication. If the firmware is updated from V11L30 or earlier, port 5665 is disabled. In this case, use the [Setup Firewall] function to enable the RESTful API port.

**3** Create Thin Provisioning Pools.

Easy Administration View assumes that Thin Provisioning Pools are being used. Use Web GUI (Normal View) or CLI to enable the Thin Provisioning function. To use the deduplication/ compression function, enable the deduplication/compression function for the storage system. By enabling the Thin Provisioning function, creating Thin Provisioning Pools becomes available. Create Thin Provisioning Pools where the volumes are to be created using Web GUI (Normal View) or CLI.

## 3. Basic Operation

This chapter describes how to log in to/log out from Easy Administration View and describes the screen structures of Easy Administration View.

- ["Login" \(page 12\)](#)
- ["Logout" \(page 12\)](#)
- ["Screen Structures" \(page 13\)](#)

### Login

Log in to Web GUI to start the operation.

To log in to Easy Administration View, enter the user account name and password in the login screen, and select the "Login to Web GUI with Easy Administration View" checkbox.

#### Caution

- Up to 64 user accounts, including the user accounts that are logged in to RESTful API, can access Easy Administration View at the same time. If the user accounts that are logged in exceed 64, login to Easy Administration View is not available.
- A user account with the "Software" role cannot log in to Easy Administration View.
- If a user account with the "Password Policy" setting enabled is used to log in and the "Maximum Password Age" of the relevant user account has expired, the [Change Password] screen appears. Users cannot log in to Easy Administration View until the password is changed.
- If a user account with the "Lockout Policy" setting enabled is used to log in and the number of failed authentications exceeds the "Lockout Threshold", the relevant user account is locked out. Users cannot log in until the specified "Lockout Duration" passes.
- If users log in to Easy Administration View while the controller firmware is being updated, the users may be forcibly logged out during the operation.
- Users cannot log in to Easy Administration View while the Slave CM is connected.

### Logout

The following shows the procedure to log out from Easy Administration View.

- 1 On the right side of the header, click the username ([User Menu]) > [Logout].  
→ A confirmation screen appears.
- 2 Click [Logout].  
→ This completes the logging out process.

Note that a logout from Easy Administration View is performed automatically under the following conditions:

- When no operations (no mouse clicks and no keyboard operations) have been sensed for 30 minutes.
- When 10 hours have passed after a login.

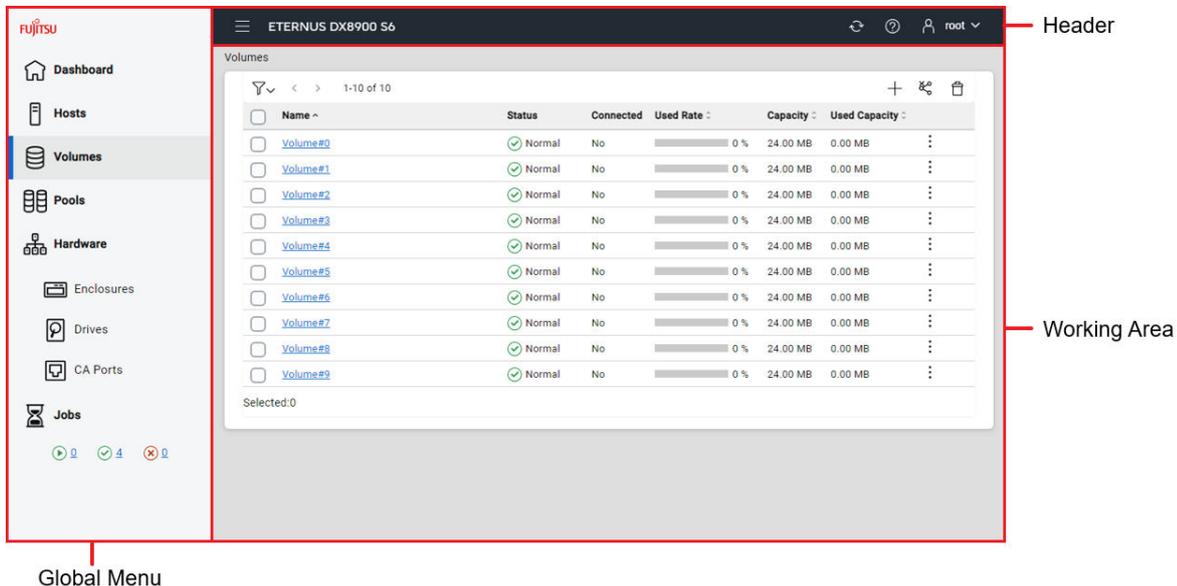
- When 30 minutes have passed after moving from Easy Administration View (or transitioning to another page or closing the web browser) without logging out.
- When the controller firmware is updated while the user is logged in.
- When the Main CM is changed.
- When the storage system is turned off.

## Screen Structures

- "[Basic Screens](#)" (page 13)
- "[Action Dialog](#)" (page 15)

### Basic Screens

The following show the basic screen structures for Easy Administration View.



### Header

An area that is always displayed on Easy Administration View. The items listed below are displayed in order from the left.



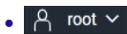
An icon to hide the global menu. Click this button to display the global menu if it is hidden.



An icon to update the information in the Working Area. To display the latest information for items displayed in the Working Area, click this icon instead of the reload function of the web browser.



An icon that displays the help page of the information currently displayed in the Working Area.



The username of the currently logged in user. Click this item to display the following user menus.

- Logout

Logs the user out from the current screen and returns to the login screen.

- Change Password

Changes the password of the currently logged in user.



An icon to display the Action menu of the Header.

This icon is displayed when the width of browser is 992 px or less.



An icon to hide the Action menu of the Header.

This icon is displayed when the width of browser is 992 px or less.

### Global Menu

An area that displays the menu to switch the information displayed in the Working Area. The global menu can be displayed/hidden with the button in the header. The items listed below are displayed in order from the top.



Dashboard

The Dashboard is displayed on the Working Area.



Hosts

The Host List View is displayed on the Working Area.



Volumes

The Volume List View is displayed on the Working Area.



Pools

The Pools List View is displayed on the Working Area.



Hardware

The Hardware Detail View is displayed on the Working Area.



Enclosures

The Enclosure List View is displayed on the Working Area.



Drives

The Drive List View is displayed on the Working Area.



CA Ports

The CA Port List View is displayed on the Working Area.



Jobs

The Job List View is displayed on the Working Area.

An overview of the job status is displayed under this item. The number of jobs displayed in this item is automatically updated.



The number of running jobs is displayed.



The number of successfully completed jobs is displayed.



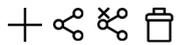
The number of jobs that terminated with an error is displayed.

### Working Area

An area where information according to the items selected in the Global Menu is displayed.

### Action Dialog

#### Button for performing an action



If the button to perform host related actions such as creating, connecting, disconnecting, changing, or deleting is clicked, the dialogs (Action Dialogs) to enter information or to check the progress of the operation are displayed. Action Dialogs are configured from the following three screens: "Input Dialog", "Summary Dialog", and "Result Dialog".

#### Input Dialog

A dialog for entering the required information to perform actions. For example, enter information such as the host name to create a host. Click the [Confirm] button to display the Summary Dialog.

Example: Input Dialog of Create Host (for FC host)

**Create Host** ⓘ

Host Type  FC  iSCSI

Host Response Name

Auto-Discovered Initiator(s) < > 1-8 of 12 Filter

<input type="checkbox"/>	WWN ~	Name
<input checked="" type="checkbox"/>	40:00:00:00:AB:C8:0E:38	<input type="text" value="Host#01"/>
<input checked="" type="checkbox"/>	40:00:00:00:AB:C8:0E:39	<input type="text" value="Host#02"/>
<input checked="" type="checkbox"/>	40:00:00:00:AB:C8:0E:3A	<input type="text" value="Host#03"/>
<input checked="" type="checkbox"/>	40:00:00:00:AB:C8:0E:3B	<input type="text" value="Host#04"/>
<input type="checkbox"/>	40:00:00:00:AB:C8:0E:40	<input type="text" value="Input a string"/>
<input type="checkbox"/>	40:00:00:00:AB:C8:0E:41	<input type="text" value="Input a string"/>
<input type="checkbox"/>	40:00:00:00:AB:C8:0E:42	<input type="text" value="Input a string"/>
<input type="checkbox"/>	40:00:00:00:AB:C8:0E:43	<input type="text" value="Input a string"/>

Selected: 4

#### Summary Dialog

A dialog to confirm the actions that are to be performed. After confirming that the entered information is correct, selecting the button to perform the action displays the Result Dialog.

Example: Summary Dialog of Create Host (for FC host)

3. Basic Operation  
Screen Structures

### Create Host

**Summary**

**Host Type** FC

**Host Response Name** Default

**Host Information to be Registered**

Name ^	WWN
Host#01	40:00:00:00:AB:C8:0E:38
Host#02	40:00:00:00:AB:C8:0E:39
Host#03	40:00:00:00:AB:C8:0E:3A
Host#04	40:00:00:00:AB:C8:0E:3B

### Result Dialog

A dialog for checking the progress of the action. In Easy Administration View, operations that include changing the configuration of the storage system are managed in units of "job". Result Dialog displays the progress of the created jobs and their execution results. Even if the Result Dialog is closed, jobs continue to run in the background (to check the execution result of the jobs after the Result Dialog is closed, display the Job List View from the Global Menu).

Example: Result Dialog of Create Host

### Create Host

**Results**

**Start Time** 2024-03-01 14:19:53

**Completion Time** 2024-03-01 14:19:53

**Overall Status** ✔ Success

[Details](#) Error Details

Job ID	Description	Status	Completion Time
5201342	Create host named Host#01.	<span style="color: green;">✔</span> Success	2021-08-10 20:30:00
9581350	Create host named Host#02.	<span style="color: green;">✔</span> Success	2021-08-10 20:30:00
7255472	Create host named Host#03.	<span style="color: green;">✔</span> Success	2021-08-10 20:30:00
8190024	Create host named Host#04.	<span style="color: green;">✔</span> Success	2021-08-10 20:30:00

Do not delete succeeded job information

# 4. Dashboard

- "Overview" (page 17)
- "Screenshots" (page 17)
- "Display Items" (page 18)

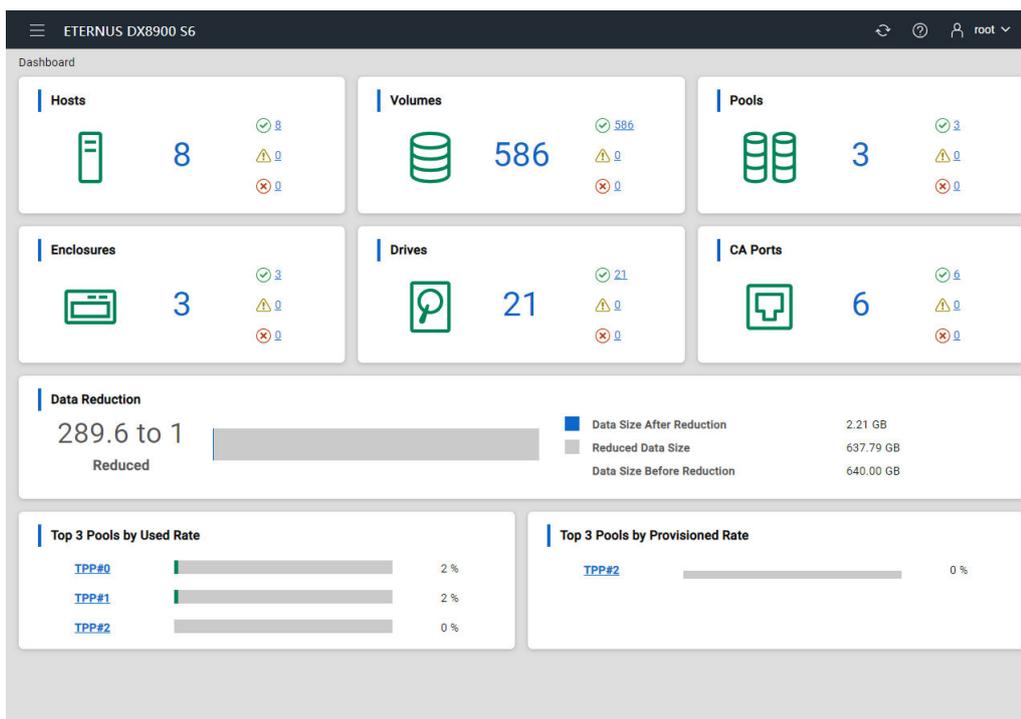
## Overview

A dashboard that shows an overview of the used status of the entire storage system is displayed.

### Information

- The dashboard is the homepage of Easy Administration View.
- If there are no Thin Provisioning Pools in the storage system, "Top 3 Pools by Used Rate" is not displayed.
- If there are no Thin Provisioning Pools where Data Reduction is enabled in the storage system, "Data Reduction" is not displayed.
- If there are no Thin Provisioning Pools where Data Reduction is disabled in the storage system, "Top 3 Pools by Provisioned Rate" is not displayed.
- A warning message appears when the password will expire in 7 days.

## Screenshots



## ■ Display Items

### Hosts

Parameter Name	Description
	<p>The following information is displayed.</p> <ul style="list-style-type: none"> <li>• General status of the host</li> <li>• The number of hosts that can be used by the currently logged in user account</li> </ul> <p>Click the number of hosts to display Host List View.</p> <ul style="list-style-type: none"> <li>•  <p>All the hosts are in the normal status (Normal, Maintenance, or Unused).</p> </li> <li>•  <p>Hosts in the Warning status exist.</p> </li> <li>•  <p>Hosts in the Error status exist.</p> </li> <li>•  <p>There are no hosts that can be used by the currently logged in user account.</p> </li> </ul>
	<p>The number of hosts in the normal status (Normal, Maintenance, or Unused) is displayed.</p> <p>Click the number of hosts to display Host List View that is filtered by the host status (Normal, Maintenance, and Unused).</p>
	<p>The number of hosts in the Warning status is displayed.</p> <p>Click the number of hosts to display Host List View that is filtered by the host status (Warning).</p>
	<p>The number of hosts in the Error status is displayed.</p> <p>Click the number of hosts to display Host List View that is filtered by the host status (Error).</p>

## Volumes

Parameter Name	Description
	<p>The following information is displayed.</p> <ul style="list-style-type: none"> <li>• General status of the volume</li> <li>• The number of volumes that can be used by the currently logged in user account</li> </ul> <p>Click the number of volumes to display Volume List View.</p> <ul style="list-style-type: none"> <li>•  <p>All the volumes are in the normal status (Normal or Maintenance).</p> </li> <li>•  <p>Volumes in the Warning status exist.</p> </li> <li>•  <p>Volumes in the Error status exist.</p> </li> <li>•  <p>There are no volumes that can be used by the currently logged in user account.</p> </li> </ul>
	<p>The number of volumes in the normal status (Normal or Maintenance) is displayed. Click the number of volumes to display Volume List View that is filtered by the volume status (Normal and Maintenance).</p>
	<p>The number of volumes in the Warning status is displayed. Click the number of volumes to display Volume List View that is filtered by the volume status (Warning).</p>
	<p>The number of volumes in the Error status is displayed. Click the number of volumes to display Volume List View that is filtered by the volume status (Error).</p>

### Pools

Parameter Name	Description
	<p>The following information is displayed.</p> <ul style="list-style-type: none"> <li>• General status of the Thin Provisioning Pool</li> <li>• The number of Thin Provisioning Pools that can be used by the currently logged in user account</li> </ul> <p>Click the number of Thin Provisioning Pools to display Pool List View.</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>All the Thin Provisioning Pools are in the normal status (Normal or Maintenance).</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>Thin Provisioning Pools in the Warning status exist.</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>Thin Provisioning Pools in the Error status exist.</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>There are no Thin Provisioning Pools that can be used by the currently logged in user account.</p>
	<p>The number of Thin Provisioning Pools in the normal status (Normal or Maintenance) is displayed.</p> <p>Click the number of Thin Provisioning Pools to display Pool List View that is filtered by the Thin Provisioning Pool status (Normal and Maintenance).</p>
	<p>The number of Thin Provisioning Pools in the Warning status is displayed.</p> <p>Click the number of Thin Provisioning Pools to display Pool List View that is filtered by the Thin Provisioning Pool status (Warning).</p>
	<p>The number of Thin Provisioning Pools in the Error status is displayed.</p> <p>Click the number of Thin Provisioning Pools to display Pool List View that is filtered by the Thin Provisioning Pool status (Error).</p>

### Enclosures

Parameter Name	Description
	<p>The following information is displayed.</p> <ul style="list-style-type: none"> <li>• General status of the enclosure</li> <li>• The number of enclosures</li> </ul> <p>Click the number of enclosures to display Enclosure List View.</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>All the enclosures are in the normal status (Normal, Maintenance, or Unused).</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>Enclosures in the Warning status exist.</p> <ul style="list-style-type: none"> <li>• </li> </ul> <p>Enclosures in the Error status exist.</p>

#### 4. Dashboard

Parameter Name	Description
	The number of enclosures in the normal status (Normal, Maintenance, or Unused) is displayed. Click the number of enclosures to display Enclosure List View that is filtered by the enclosure status (Normal, Maintenance, and Unused).
	The number of enclosures in the Warning status is displayed. Click the number of enclosures to display Enclosure List View that is filtered by the enclosure status (Warning).
	The number of enclosures in the Error status is displayed. Click the number of enclosures to display Enclosure List View that is filtered by the enclosure status (Error).

#### Drives

Parameter Name	Description
	The following information is displayed. <ul style="list-style-type: none"> <li>• General status of the drive</li> <li>• The number of drives</li> </ul> Click the number of drives to display Drive List View. <ul style="list-style-type: none"> <li>•  <p>All the drives are in the normal status (Normal, Maintenance, or Unused).</p> </li> <li>•  <p>Drives in the Warning status exist.</p> </li> <li>•  <p>Drives in the Error status exist.</p> </li> <li>•  <p>There are no drives.</p> </li> </ul>
	The number of drives in the normal status (Normal, Maintenance, or Unused) is displayed. Click the number of drives to display Drive List View that is filtered by the drive status (Normal, Maintenance, and Unused).
	The number of drives in the Warning status is displayed. Click the number of drives to display Drive List View that is filtered by the drive status (Warning).
	The number of drives in the Error status is displayed. Click the number of drives to display Drive List View that is filtered by the drive status (Error).

## CA Ports

Parameter Name	Description
	<p>The following information is displayed.</p> <ul style="list-style-type: none"> <li>• General status of the CA port</li> <li>• The number of CA ports</li> </ul> <p>Click the number of CA ports to display CA Port List View.</p> <ul style="list-style-type: none"> <li>•  <p>All the CA ports are in the normal status (Normal, Maintenance, or Unused).</p> </li> <li>•  <p>CA ports in the Warning status exist.</p> </li> <li>•  <p>CA ports in the Error status exist.</p> </li> <li>•  <p>There are no CA ports.</p> </li> </ul>
	<p>The number of CA ports in the normal status (Normal, Maintenance, or Unused) is displayed.</p> <p>Click the number of CA ports to display CA Port List View that is filtered by the CA port status (Normal, Maintenance, and Unused).</p>
	<p>The number of CA ports in the Warning status is displayed.</p> <p>Click the number of CA ports to display CA Port List View that is filtered by the CA port status (Warning).</p>
	<p>The number of CA ports in the Error status is displayed.</p> <p>Click the number of CA ports to display CA Port List View that is filtered by the CA port status (Error).</p>

## Data Reduction

Parameter Name	Description
Data Reduction Ratio	<p>The ratio of the reduced data size by Data Reduction to the written data size is displayed.</p> <p>This item is displayed as a band chart and numerical value.</p> <p>The value is displayed in the "X : 1" format (X is the pre-reduction data size when the post-reduction data size is assumed to be "1").</p>
Data Size After Reduction	<p>The post-reduction data size is displayed.</p> <p>The displayed value is the total size of the post-reduction data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled.</p> <p>The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p>
Reduced Data Size	<p>The deleted data size is displayed.</p> <p>The displayed value is the total size of the data that is deleted by Data Reduction from the data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled.</p> <p>The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p>
Data Size Before Reduction	<p>The pre-reduction data size is displayed.</p> <p>The displayed value is the total size of the pre-reduction data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled.</p> <p>The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p>

### Top 3 Pools by Used Rate

Parameter Name	Description
Name	<p>The Thin Provisioning Pool name is displayed.</p> <p>Among the Thin Provisioning Pools that can be used by the currently logged in user account, the top three Thin Provisioning Pools with the highest Used Rate (the ratio of the used capacity to the total physical capacity) are displayed in descending order according to the Used Rate.</p> <p>Click a Thin Provisioning Pool name to display its Detail View.</p>
Used Rate	<p>The used rate of the Thin Provisioning Pool is displayed.</p> <p>The ratio of the used capacity to the total physical capacity is displayed in a band chart and numerical value.</p> <p>The unit is "%".</p>

### Top 3 Pools by Provisioned Rate

Parameter Name	Description
Name	<p>The Thin Provisioning Pool name is displayed.</p> <p>Among the Thin Provisioning Pools that can be used by the currently logged in user account, the top three Thin Provisioning Pools with the highest Provisioned Rate (the ratio of the total logical capacity to the total physical capacity) are displayed in descending order according to the Provisioned Rate.</p> <p>Click a Thin Provisioning Pool name to display its Detail View.</p>
Provisioned Capacity	The total logical capacity of the volumes in the Thin Provisioning Pool is displayed in a bar chart.
Capacity	The total physical capacity of the Thin Provisioning Pool is displayed in a bar chart.
Provisioned Rate	<p>The provisioning rate of the Thin Provisioning Pool is displayed.</p> <p>The ratio of the total logical capacity to the total physical capacity is displayed.</p> <p>The unit is "%".</p>

# 5. Host

## ■ Overview

The host information and the host registration method are displayed.

- "Host List View" (page 24)
- "Host Detail View" (page 27)
- "Create Host Dialog" (page 31)
- "Delete Host Dialog" (page 38)
- "Modify Host Dialog" (page 42)
- "Connect Volume to Host Dialog" (page 47)
- "Disconnect All Volume from Host Dialog" (page 53)

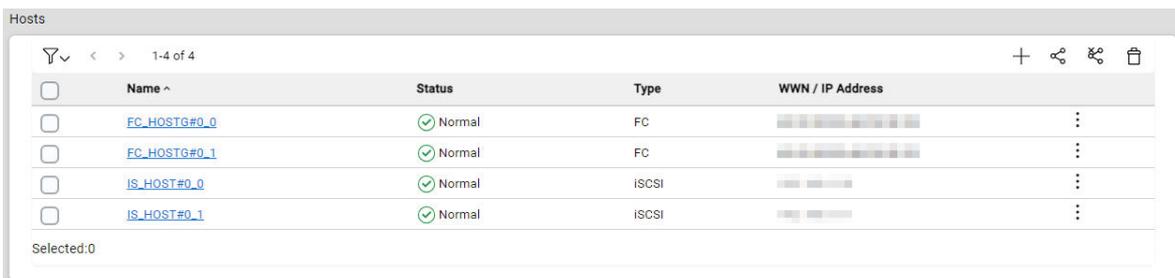
## Host List View

- "■ Overview" (page 24)
- "■ Screenshots" (page 24)
- "■ Actions" (page 24)
- "■ Setting Items" (page 25)
- "■ Display Items" (page 25)
- "■ Filters" (page 26)

## ■ Overview

The host information is displayed in list form.

## ■ Screenshots



## ■ Actions

Icon/Button	Description
	Opens/closes the filter menu. Click this icon to open the filter menu to filter the display items and display resources of the list. Click this icon again to close the filter menu. The filter menu is closed by default.

5. Host  
Host List View

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>
	<p>Registers a new host.</p> <p>Click this icon to open the dialog to register new hosts.</p>
	<p>Connects volumes to the host.</p> <p>Click this icon to open the dialog to connect volumes to the selected host.</p>
	<p>Disconnects all the connections from the host to the volumes.</p> <p>Click this icon to open the dialog for disconnecting all the connections from the selected host to the volumes.</p>
	<p>Deletes the host.</p> <p>Click this icon to open the dialog for deleting the selected hosts.</p>
	<p>Opens/closes the action menu of the host.</p> <p>Click this icon to open a menu for the various operations that can be performed for the host.</p> <ul style="list-style-type: none"> <li>• Connect Connects volumes to the host.</li> <li>• Modify Changes the host settings.</li> <li>• Disconnect Disconnects all the connections from the host to the volumes.</li> <li>• Delete Deletes the host.</li> </ul>

■ Setting Items

Name	Description
<input type="checkbox"/>	<p>Select the following hosts.</p> <ul style="list-style-type: none"> <li>• To be connected to the volumes</li> <li>• To be disconnected from the volumes</li> <li>• To be deleted</li> </ul>

■ Display Items

Parameter Name	Description
Name	<p>The host name is displayed.</p> <p>Click a host name to display its Detail View.</p>

5. Host  
Host List View

Parameter Name	Description
Status	<p>The status of the volume, which is connected to the host, is displayed.</p> <ul style="list-style-type: none"> <li>• Normal All the volumes that are connected to the host are in the "Normal" state.</li> <li>• Maintenance Volumes in the "Maintenance" state are connected.</li> <li>• Warning Volumes in the "Warning" state are connected.</li> <li>• Error Volumes in the "Error" state are connected.</li> <li>• Unused No volumes are connected.</li> </ul>
Type	<p>The type of the host is displayed.</p> <ul style="list-style-type: none"> <li>• FC FC host</li> <li>• iSCSI iSCSI host</li> </ul>
WWN / IP Address	The WWN or IP address of the host is displayed.
Host Response Name	The host response name, which has been assigned to the host, is displayed.
iSCSI Name	<p>The iSCSI name of the iSCSI host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for FC.</li> </ul> </div>
Selected: x	The number of selected hosts is displayed.

■ Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>
Name	<p>Specify the name of the host to be displayed in the list. Information of the host whose name partially matches the input string is displayed.</p> <p>If no values are specified, the list will not be filtered by host name. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The "Name" column cannot be hidden.</li> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>

## 5. Host Host Detail View

Parameter Name	Description
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default.</p> <p>This item is also used to select the status of the host that is to be displayed in the list. The hosts that are in the selected status are displayed in the list.</p> <p>If no host statuses are selected, the list will not be filtered by status. No host statuses are selected by default.</p> <ul style="list-style-type: none"><li>• Normal Hosts in the "Normal" state are displayed.</li><li>• Maintenance Hosts in the "Maintenance" state are displayed.</li><li>• Warning Hosts in the "Warning" state are displayed.</li><li>• Error Hosts in the "Error" state are displayed.</li><li>• Unused Hosts in the "Unused" state are displayed.</li></ul>
Type	<p>Select whether to display the "Type" column in the list. The "Type" column is displayed by default.</p> <ul style="list-style-type: none"><li>• FC Hosts whose type is "FC" are displayed.</li><li>• iSCSI Hosts whose type is "iSCSI" are displayed.</li></ul>
WWN / IP Address	<p>Select whether to display the "WWN / IP Address" column in the list. The "WWN / IP Address" column is displayed by default.</p>
Host Response Name	<p>Select whether to display the "Host Response Name" column in the list. The "Host Response Name" column is not displayed by default.</p>
iSCSI Name	<p>Select whether to display the "iSCSI Name" column in the list. The "iSCSI Name" column is not displayed by default.</p>

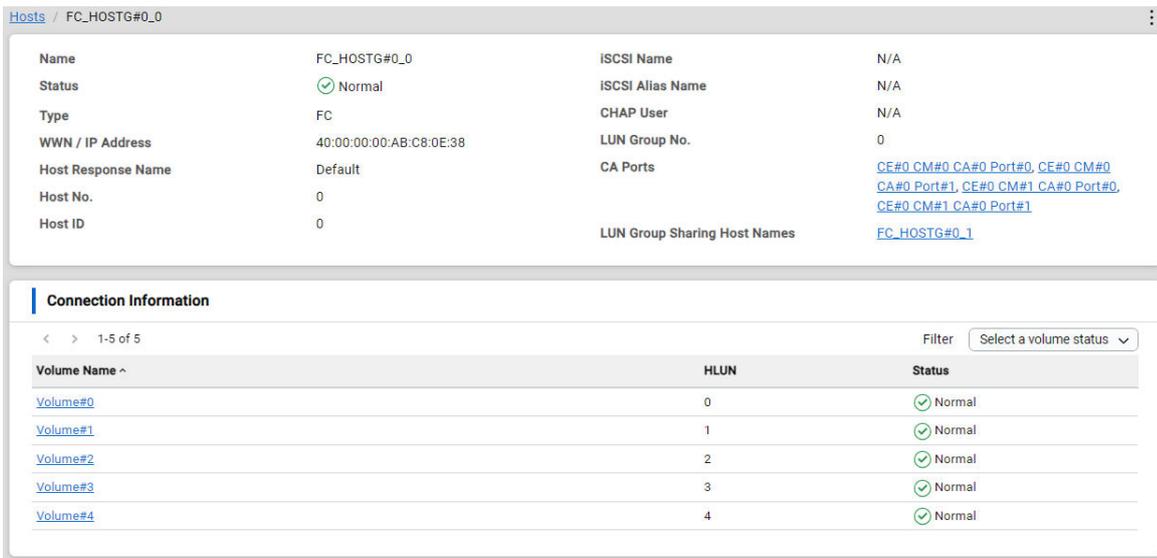
## Host Detail View

- ["■ Overview" \(page 27\)](#)
- ["■ Screenshots" \(page 28\)](#)
- ["■ Actions" \(page 28\)](#)
- ["■ Display Items" \(page 29\)](#)
- ["■ Filters" \(page 31\)](#)

### ■ Overview

The detailed host information is displayed.

## Screenshots



## Actions

Icon/Button	Description
	<p>Opens/closes the action menu of the host.</p> <p>Click this icon to open a menu for the various operations that can be performed for the host.</p> <ul style="list-style-type: none"> <li>• Connect Connects volumes to the host.</li> <li>• Modify Changes the host settings.</li> <li>• Disconnect Disconnects all the connections from the host to the volumes.</li> <li>• Delete Deletes the host.</li> </ul>
Back	<p>Displays the previous screen.</p> <div style="border: 2px solid orange; padding: 10px; margin-top: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>• To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Hosts / xxx	<p>Click "Hosts" to display its List View.</p> <p>"xxx" indicates the name of the currently displayed host.</p>

## Connection Information

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The host name is displayed.
Status	<p>The status of the volume, which is connected to the host, is displayed.</p> <ul style="list-style-type: none"> <li>• Normal All the volumes that are connected to the host are in the "Normal" state.</li> <li>• Maintenance Volumes in the "Maintenance" state are connected.</li> <li>• Warning Volumes in the "Warning" state are connected.</li> <li>• Error Volumes in the "Error" state are connected.</li> <li>• Unused No volumes are connected.</li> </ul>
Type	<p>The type of the host is displayed.</p> <ul style="list-style-type: none"> <li>• FC FC host</li> <li>• iSCSI iSCSI host</li> </ul>
WWN / IP Address	The WWN or IP address of the host is displayed.
Host Response Name	The host response name, which has been assigned to the host, is displayed.
Host No.	<p>The host number is displayed.</p> <p>It is an identifier of the host used for systems such as Web GUI (Normal View) and CLI.</p>
Host ID	<p>The host ID is displayed.</p> <p>The host identifier that is used for RESTful API.</p>
iSCSI Name	<p>The iSCSI name of the iSCSI host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is other than "iSCSI".</li> </ul> </div>
iSCSI Alias Name	<p>The iSCSI Alias name of the iSCSI host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is other than "iSCSI".</li> </ul> </div>
CHAP User	<p>The user name of the iSCSI host used for the CHAP authentication is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is other than "iSCSI".</li> </ul> </div>

5. Host  
Host Detail View

Parameter Name	Description
LUN Group No.	<p>The LUN group number that is used by the host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when no volumes are connected to the host.</li> </ul> </div>
CA Ports	<p>The CA port, which is connected to the host, is displayed. Click a CA port to display its Detail View.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when no volumes are connected to the host.</li> </ul> </div>
LUN Group Sharing Host Names	<p>The host names that share the LUN group are displayed. Click a host name to display its Detail View.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed if the host does not share the LUN group with other hosts.</li> </ul> </div>

**Connection Information**

Parameter Name	Description
Volume Name	<p>The name of the volume, which is connected to the host, is displayed. Click a volume name to display its Detail View.</p>
HLUN	<p>The HLUN of the volume is displayed.</p>
Status	<p>The volume status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>

## ■ Filters

### Connection Information

Parameter Name	Description
Select a volume status	<p>This item is used to select the status of the volume that is to be displayed in the list.</p> <p>The volumes that are in the selected status are displayed in the list.</p> <p>If no statuses are selected, the list will not be filtered by status. No statuses are selected by default.</p> <ul style="list-style-type: none"><li>• Normal Volumes in the "Normal" state are displayed.</li><li>• Maintenance Volumes in the "Maintenance" state are displayed.</li><li>• Warning Volumes in the "Warning" state are displayed.</li><li>• Error Volumes in the "Error" state are displayed.</li></ul>

## Create Host Dialog

- ["■ Overview" \(page 31\)](#)
- ["■ Input Dialog" \(page 32\)](#)
- ["■ Summary Dialog" \(page 35\)](#)
- ["■ Result Dialog" \(page 36\)](#)

## ■ Overview

This function registers a new host.

### Caution

- If an appropriate host response is not configured to the host, the path may not be switched correctly or the volume may not be recognized correctly.  
Refer to "Configuration Guide -Server Connection-" for each OS type to assign an appropriate host response to the host that is to be registered.
- In Auto-Discovered Initiator(s), information for all unregistered hosts in the storage system that are being connected to the CA port is displayed.  
If unregistered hosts remain connected in the multitenancy environment, information such as IP addresses and WWNs may be leaked to other tenants.  
Therefore, make sure to register a host immediately after it is connected to the CA port.

### Information

- To allow the storage system to obtain host information such as WWN and iSCSI Name, the registration target host and CA port of the storage system must be connected in advance.
- To register an iSCSI host, advance login to the iSCSI port of the storage system from the host is required. For more details, refer to "Configuration Guide -Server Connection- iSCSI" for each OS type.
- In Easy Administration View, unconnected hosts cannot be registered. To register a host before connecting a host and CA port of the storage system, use Web GUI (Normal View) or CLI.
- In Easy Administration View, registered hosts cannot be registered in host groups. To configure host affinity using host groups, use Web GUI (Normal View) or CLI.

## Input Dialog

### Actions

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>
	<div data-bbox="323 1108 523 1146" data-label="Section-Header"> <h3>Information</h3> </div> <ul style="list-style-type: none"> <li>• The maximum number of items displayed per page is eight.</li> </ul>
Confirm	Displays a screen to confirm the entered information.
Cancel	Deletes the entered information, and then displays the previous screen.

### Setting Items

Icon/Button	Description
Host Type	<p>Select the host type that is to be registered.</p> <p>The default setting is as follows:</p> <ul style="list-style-type: none"> <li>• When an unregistered host that is being connected to the storage system is an FC type or when unregistered hosts that are being connected to the storage system are FC and iSCSI types. FC</li> <li>• When an unregistered host that is being connected to the storage system is an iSCSI type. iSCSI</li> </ul>

5. Host  
Create Host Dialog

Icon/Button	Description
Host Response Name	<p>Select a host response name that is to be assigned to the registration target host. The default is "Default".</p> <ul style="list-style-type: none"> <li>• Default Set this parameter for any host connection environments that are not listed below.</li> <li>• Solaris MPxIO Set this parameter to connect to an Oracle Solaris host and to use the OS standard Multipath Driver (MPxIO).</li> <li>• HP-UX Set this parameter to connect to an HP-UX host.</li> <li>• AIX Set this parameter to connect to an AIX host.</li> <li>• AIX VxVM Set this parameter to connect to an AIX host and to use Veritas Volume Manager (VxVM).</li> <li>• VS850/SVC Set this parameter to connect to an ETERNUS VS850 Virtualization Storage or an IBM SAN Volume Controller (SVC).</li> <li>• BS2000 Set this parameter to connect to a BS2000 host.</li> </ul> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The customized host responses cannot be selected. To set a customized host response, use Web GUI (Normal View), CLI, or RESTful API.</li> </ul> </div>
<input type="checkbox"/>	<p>Select the host that is to be registered. The host is not selected as a registration target by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• For the hosts that are selected as the registration target, the host name must be specified.</li> <li>• Up to 64 hosts can be selected.</li> </ul> </div>

• Auto-Discovered Initiator(s)

Name	Description
Name	<p>Enter the name of the host that is to be registered. This item is required.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The length of the host name is 1 to 16 characters.</li> <li>• Only the alphanumeric characters and symbols (except "," (comma) and "?") are available.</li> <li>• The same name as the existing host cannot be used.</li> <li>• Multiple entries with the same host name are not allowed.</li> </ul> </div>

### Display Items

- Auto-Discovered Initiator(s)

Parameter Name	Description
WWN	<p>The FC host WWN is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when the host type is "FC".</li> </ul> </div>
IP Address	<p>The IP address of the iSCSI host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when the host type is "iSCSI".</li> </ul> </div>
iSCSI Name	<p>The iSCSI name of the iSCSI host is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when the host type is "iSCSI".</li> </ul> </div>
Selected: x	<p>The number of selected hosts is displayed.</p>

### Filters

- Auto-Discovered Initiator(s)

Parameter Name	Description
WWN	<p>Specify the WWN of the FC host to be displayed in the list. Information of the FC host with a partially matched WWN input string is displayed. If no values are specified, the list will not be filtered by WWN. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when the host type is "FC".</li> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>
IP Address	<p>Specify the IP address of the iSCSI host to be displayed in the list. Information of the iSCSI host with a partially matched IP address input string is displayed. If no values are specified, the list will not be filtered by IP address. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when the host type is "iSCSI".</li> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>

5. Host  
Create Host Dialog

Parameter Name	Description
iSCSI Name	Specify the iSCSI name of the iSCSI host to be displayed in the list. Information of the iSCSI host with a partially matched iSCSI name input string is displayed. If no values are specified, the list will not be filtered by iSCSI name. This item is blank by default.

**Information**

- This item is displayed when the host type is "iSCSI".
- Regular expressions such as "\*" can be used. To specify a resource name that includes a character used for regular expressions such as "\*", input an escape character (\) before the character.

■ Summary Dialog

**Actions**

Icon/Button	Description
Create	Starts the process to register hosts and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.
Back	Returns to the information input screen for the host that is to be registered.

**Display Items**

Parameter Name	Description
Host Type	The type of the host that is to be registered is displayed.
Host Response Name	The host response name that is to be assigned to the host is displayed.

• Host Information to be Registered

Parameter Name	Description
Name	The name of the host that is to be registered is displayed.
WWN	The WWN of the FC host that is to be registered is displayed.

**Information**

- This item is displayed when the host type is "FC".

IP Address	The IP address of the iSCSI host that is to be registered is displayed.
------------	-------------------------------------------------------------------------

**Information**

- This item is displayed when the host type is "iSCSI".

iSCSI Name	The iSCSI name of the iSCSI host that is to be registered is displayed.
------------	-------------------------------------------------------------------------

**Information**

- This item is displayed when the host type is "iSCSI".

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	<p>The time when the process starts is displayed.</p> <p>The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
Elapsed Time	<p>The elapsed time after starting the process is displayed.</p> <p>The elapsed time is displayed in the following format.</p> <p>XX:YY:ZZ</p> <p>XX: Elapsed time (hours)</p> <p>YY: Elapsed time (minutes)</p> <p>ZZ: Elapsed time (seconds)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This item is displayed when "Overall Status" is "Running".</li></ul></div>
Completion Time	<p>The completion time for all the jobs created by this process is displayed.</p> <p>The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This item is displayed when "Overall Status" is "Success" or "Error".</li></ul></div>

5. Host  
Create Host Dialog

Parameter Name	Description
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>Success The job succeeded and the process is completed.</li> <li>Canceled The job is canceled and the process is completed.</li> <li>Running The job is being executed.</li> <li>Queued The job is waiting for execution.</li> <li>Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>"N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.
Error Message	An error message is displayed. <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li></ul></div>
Error Code	The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.
Internal Code	The internal ID of the error detection location is displayed. <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This information is for technical support.</li></ul></div>
Operation Results	The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format. xxx: yyy xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed. yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details. The execution results are displayed on multiple lines if multiple operations are executed.

## Delete Host Dialog

- ["■ Overview" \(page 38\)](#)
- ["■ Summary Dialog" \(page 39\)](#)
- ["■ Result Dialog" \(page 39\)](#)

### ■ Overview

This function deletes the host.

#### Information

- The following hosts cannot be deleted:
  - Hosts that belong to a host group
  - Hosts where volumes are connected

## ■ Summary Dialog

### Actions

Icon/Button	Description
Delete	Starts the process to delete hosts and then displays the execution result confirmation screen.
Cancel	Displays the previous screen.

### Display Items

Parameter Name	Description
Selected Host(s)	The name of the selected host is displayed.

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)
Elapsed Time	The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)

**Information**

- This item is displayed when "Overall Status" is "Running".

5. Host  
Delete Host Dialog

Parameter Name	Description
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>Success The job succeeded and the process is completed.</li> <li>Canceled The job is canceled and the process is completed.</li> <li>Running The job is being executed.</li> <li>Queued The job is waiting for execution.</li> <li>Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>

5. Host  
Delete Host Dialog

Parameter Name	Description
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format. xxx: yyy xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed. yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details. The execution results are displayed on multiple lines if multiple operations are executed.</p>

# Modify Host Dialog

- "■ Overview" (page 42)
- "■ Input Dialog" (page 42)
- "■ Summary Dialog" (page 43)
- "■ Result Dialog" (page 44)

## ■ Overview

This function changes the host settings.

### Caution

- When changing the host response of an host that is currently being used, make sure to stop access to that host. The host must be rebooted after the host setting is changed.

## ■ Input Dialog

### Actions

Icon/Button	Description
Confirm	Displays a screen to confirm the entered information. <div data-bbox="316 1003 1476 1131"><b>Information</b><ul style="list-style-type: none"><li>• The confirmation screen is not displayed if all the required items are not changed correctly.</li></ul></div>
Cancel	Deletes the entered information, and then displays the previous screen.

### Setting Items

Icon/Button	Description
Name	Specify the new host name. The current host name is displayed by default. <div data-bbox="316 1435 1476 1646"><b>Information</b><ul style="list-style-type: none"><li>• The length of the host name is 1 to 16 characters.</li><li>• Only the alphanumeric characters and symbols (except "," (comma) and "?") are available.</li><li>• The same name as the existing host cannot be used.</li></ul></div>

## 5. Host Modify Host Dialog

Icon/Button	Description
Host Response Name	<p>Select a host response name that is to be assigned to the host after the modification.</p> <p>The current host response name, which has been assigned to the host, is displayed by default.</p> <ul style="list-style-type: none"> <li>• Default Set this parameter for any host connection environments that are not listed below.</li> <li>• Solaris MPxIO Set this parameter to connect to an Oracle Solaris host and to use the OS standard Multipath Driver (MPxIO).</li> <li>• HP-UX Set this parameter to connect to an HP-UX host.</li> <li>• AIX Set this parameter to connect to an AIX host.</li> <li>• AIX VxVM Set this parameter to connect to an AIX host and to use Veritas Volume Manager (VxVM).</li> <li>• VS850/SVC Set this parameter to connect to an ETERNUS VS850 Virtualization Storage or an IBM SAN Volume Controller (SVC).</li> <li>• BS2000 Set this parameter to connect to a BS2000 host.</li> </ul>
<div style="border: 2px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The customized host responses cannot be selected (if a customized host response is currently assigned, that host response can be selected). To set a customized host response, use Web GUI (Normal View), CLI, or RESTful API.</li> </ul> </div>	

## ■ Summary Dialog

### Actions

Icon/Button	Description
Modify	Starts the process to change the host settings and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.
Back	Returns to the screen for changing the host information.

### Display Items

Parameter Name	Description
Selected Host	The name of the selected host is displayed.
New Name	<p>The new host name is displayed.</p> <p>The current host name is also displayed as additional information.</p>
<div style="border: 2px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the host name is not changed, "-" is displayed.</li> </ul> </div>	

5. Host  
Modify Host Dialog

Parameter Name	Description
New Host Response Name	The new host response name is displayed. The current host response name is also displayed as additional information.

**Information**

- If the host response name is not changed, "-" is displayed.

■ Result Dialog

**Actions**

Icon/Button	Description
Close	Closes the execution result confirmation screen.

**Setting Items**

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

**Display Items**

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)
Elapsed Time	The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)

**Information**

- This item is displayed when "Overall Status" is "Running".

5. Host  
Modify Host Dialog

Parameter Name	Description
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
	<div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>Success The job succeeded and the process is completed.</li> <li>Canceled The job is canceled and the process is completed.</li> <li>Running The job is being executed.</li> <li>Queued The job is waiting for execution.</li> <li>Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>

5. Host  
Modify Host Dialog

Parameter Name	Description
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format. xxx: yyy xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed. yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details. The execution results are displayed on multiple lines if multiple operations are executed.</p>

## Connect Volume to Host Dialog

- "■ Overview" (page 47)
- "■ Input Dialog" (page 48)
- "■ Summary Dialog" (page 49)
- "■ Result Dialog" (page 50)

### ■ Overview

This function connects volumes to the host.

#### Caution

- If an error occurs in the job, unused LUN groups may remain. Check the operation results of the job where the error occurred. If a LUN group is left unused, use Web GUI (Normal View) or CLI to manually delete that LUN group.

#### Information

- If no host affinities are created in the specified host, a new LUN group that has the specified volume as a member is created, and then a host affinity is created between the LUN group and the CA port where the specified host is being connected.
- If host affinities have already been created in the specified host, the specified volume is added in the LUN group that is assigned to that host.
- Up to eight hosts can be selected at the same time.
- If a host that is connecting to a volume for the first time is selected, the host and the CA port of the storage system must be connected in advance.
- If an iSCSI host that is connecting to a volume for the first time is selected, advance login to the iSCSI port of the storage system from the host is required. For more details, refer to "Configuration Guide -Server Connection- iSCSI" for each OS type.
- To select multiple hosts, the hosts must satisfy the following conditions.
  - The host type must be the same.
  - The host response must be the same.
  - The connection state must be the same.
    - Hosts that are not connected to volumes and host that are connected to volumes cannot be selected at the same time.
    - Hosts with different HLUNs from the connected volumes cannot be selected.
- To connect volumes to the host that shares a LUN group with other hosts, all the hosts that share that LUN group must be selected.
- Volumes cannot be connected to a host that uses multiple LUN groups.
- Web GUI cannot create connections for the following environments. Use ETERNUS SF Storage Cruiser to create them.
  - Connections used with Storage Cruiser.
  - Connections used with VVOLs (VVOL Access Path settings).

## Input Dialog

### Actions

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>The maximum number of items displayed per page is eight.</li> </ul> </div>
+	<p>Creates new volumes.</p> <p>Click this icon to open the dialog to create new volumes.</p>
Confirm	Displays a screen to confirm the entered information.
Cancel	Deletes the entered information, and then displays the previous screen.

### Setting Item

Name	Description
Manually Specify HLUN	<p>Select whether to manually enter the HLUNs of the volumes that are connected to the specified host.</p> <p>If this checkbox is selected, all the HLUNs of the volumes to be connected must be entered manually.</p> <p>HLUNs are obtained automatically by default.</p>
<input type="checkbox"/>	<p>Select a volume to connect to the specified host.</p> <p>The volume is not selected as a connection target by default.</p>
HLUN	<p>Specify the HLUN of the volume that is to connect to the specified host.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when the "Manually Specify HLUN" checkbox is selected.</li> <li>The available values are between 0 to 255. However, a value up to 4095 can be entered if a host with the specific host response (*1) has been selected.</li> <li>Duplicate HLUNs cannot be entered.</li> </ul> <p>*1: When the host response is HP-UX, AIX, AIX VxVM, VS850/SVC, or BS2000, or when it is a custom host response where "4096 HLUN" can be assigned.</p> </div>

### Display Items

Parameter Name	Description
Name	The volume name is displayed.

## 5. Host

### Connect Volume to Host Dialog

Parameter Name	Description
Connected	Whether the volume is connected to hosts other than the selected host is displayed. <ul style="list-style-type: none"><li>• Yes The volume is connected to hosts other than the selected host.</li><li>• No The volume is not connected to any host.</li></ul>
Location	The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group where the volume belongs is displayed. <ul style="list-style-type: none"><li>• When the volume type is "TPV": The Thin Provisioning Pool name is displayed.</li><li>• When the volume type is "FTV": The Flexible Tier Pool name is displayed.</li><li>• Other than above: The RAID group name is displayed.</li></ul>
Selected: x	The number of selected volumes is displayed.
Currently Connected: x	The number of volumes that are connected to the specified host is displayed.

### Filters

Parameter Name	Description
Volume Name	Specify the name of the volume to be displayed in the list. Information of the volume whose name partially matches the input string is displayed. If no values are specified, the list will not be filtered by volume name. This item is blank by default. <div style="border: 2px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li></ul></div>

## ■ Summary Dialog

### Actions

Icon/Button	Description
Connect	Starts the process to connect volumes to the host and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.
Back	Returns to the screen to select volumes that are to be connected.

### Display Items

Parameter Name	Description
Selected Host(s)	Displays the name of the host where the volume is to be connected.

5. Host  
Connect Volume to Host Dialog

Parameter Name	Description
Selected Volume(s)	Displays a list of volumes that are to be connected.

**Information**

- If HLUNs are automatically specified, the volume names are displayed.
- If HLUNs are manually specified, the volume names and HLUNs are displayed.

■ Result Dialog

**Actions**

Icon/Button	Description
Close	Closes the execution result confirmation screen.

**Setting Items**

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

**Display Items**

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)
Elapsed Time	The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)

**Information**

- This item is displayed when "Overall Status" is "Running".

5. Host  
Connect Volume to Host Dialog

Parameter Name	Description
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
	<div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>Success The job succeeded and the process is completed.</li> <li>Canceled The job is canceled and the process is completed.</li> <li>Running The job is being executed.</li> <li>Queued The job is waiting for execution.</li> <li>Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>

5. Host  
Connect Volume to Host Dialog

Parameter Name	Description
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format. xxx: yyy xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed. yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details. The execution results are displayed on multiple lines if multiple operations are executed.</p>

- Resource(s)

Parameter Name	Description
HLUN	<p>The HLUN that is assigned to the connected volume is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The available information is displayed when the status of at least one job created by this process becomes "Success".</li> </ul> </div>
Volume Name	<p>The volume name corresponding to HLUN is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The available information is displayed when the status of at least one job created by this process becomes "Success".</li> </ul> </div>

## Disconnect All Volume from Host Dialog

- "[Overview](#)" (page 53)
- "[Summary Dialog](#)" (page 54)
- "[Result Dialog](#)" (page 54)

### Overview

This function disconnects the connections from the host to the volumes.

#### Caution

- Before disconnecting the host, stop access from the selected host to the volume.

#### Information

- The host affinity that is related to the selected host is deleted.
- If the LUN group used by the selected host becomes unused after the host affinity is deleted, that LUN group is deleted.
- Up to 64 hosts can be selected at the same time.
- If hosts that are not connected to any volumes are selected, the operation fails.
- If a host uses multiple LUN groups, the connection cannot be disconnected.
- The following hosts cannot be disconnected. Use ETERNUS SF Storage Cruiser to disconnect them.
  - Hosts with VVOL Access Path settings
  - Hosts with Storage Cruiser settings

## ■ Summary Dialog

### Actions

Icon/Button	Description
Disconnect	Starts the process to disconnect connections from the host to all the volumes and then displays the execution result confirmation screen.
Cancel	Displays the previous screen.

### Display Items

Parameter Name	Description
Selected Host(s)	The name of the selected host is displayed.

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)

## 5. Host

### Disconnect All Volume from Host Dialog

Parameter Name	Description
Elapsed Time	<p>The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Running".</li> </ul> </div>
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

#### • Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>

5. Host

Disconnect All Volume from Host Dialog

Parameter Name	Description
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>

## 5. Host

### Disconnect All Volume from Host Dialog

Parameter Name	Description
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 2px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This information is for technical support.</li></ul></div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed.</p> <p>This information is displayed in the following format.</p> <p>xxx: yyy</p> <p>xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed.</p> <p>yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details.</p> <p>The execution results are displayed on multiple lines if multiple operations are executed.</p>

# 6. Volume

## Overview

The volume information and volume creation method are displayed.

- "Volume List View" (page 58)
- "Volume Detail View" (page 65)
- "Create Volume Dialog" (page 71)
- "Delete Volume Dialog" (page 78)
- "Modify Volume Dialog" (page 82)
- "Disconnect Volume from All Host Dialog" (page 87)

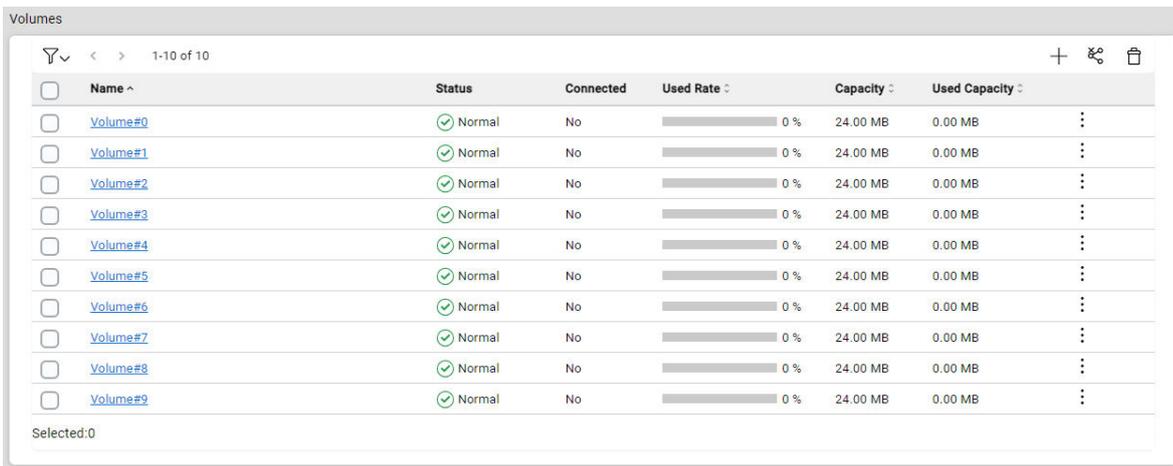
## Volume List View

- "Overview" (page 58)
- "Screenshots" (page 58)
- "Actions" (page 58)
- "Setting Items" (page 59)
- "Display Items" (page 59)
- "Filters" (page 62)

## Overview

The volume information is displayed in list form.

## Screenshots



## Actions

Icon/Button	Description
	Opens/closes the filter menu. Click this icon to open the filter menu to filter the display items and display resources of the list. Click this icon again to close the filter menu. The filter menu is closed by default.

## 6. Volume

### Volume List View

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>
+	<p>Creates new volumes.</p> <p>Click this icon to open the dialog to create new volumes.</p>
	<p>Disconnects the connections from all the hosts to the volume.</p> <p>Click this icon to open the dialog for disconnecting the connections from all the hosts to the selected volume.</p>
	<p>Deletes volumes.</p> <p>Click this icon to open the dialog to delete the selected volumes.</p>
⋮	<p>Opens/closes the action menu of the volume.</p> <p>Click this icon to open a menu for the various operations that can be performed for the volume.</p> <ul style="list-style-type: none"> <li>• <b>Modify</b> This function changes the volume settings.</li> <li>• <b>Disconnect</b> Disconnects the connections from all the hosts to the volume.</li> <li>• <b>Delete</b> Deletes volumes.</li> </ul>

## ■ Setting Items

Name	Description
<input type="checkbox"/>	Select the volume that is to be disconnected from the host or to be deleted.

## ■ Display Items

Parameter Name	Description
Name	<p>The volume name is displayed.</p> <p>Click a volume name to display its Detail View.</p>
Status	<p>The volume status is displayed.</p> <ul style="list-style-type: none"> <li>• <b>Normal</b> Normal state.</li> <li>• <b>Maintenance</b> Maintenance state.</li> <li>• <b>Warning</b> Preventive maintenance is required.</li> <li>• <b>Error</b> An error occurred and maintenance is required.</li> </ul>
Connected	<p>Whether the volume is connected from a host is displayed.</p> <ul style="list-style-type: none"> <li>• <b>Yes</b> The volume that is being connected from a host.</li> <li>• <b>No</b> The unused volume that is not connected from the host.</li> </ul>

6. Volume  
Volume List View

Parameter Name	Description
Used Rate	<p>The usage rate of the volume is displayed.</p> <p>The ratio of the physically allocated capacity to the volume capacity is displayed in a band chart. In addition, the used rate (%) is displayed next to the band chart.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the volume type is other than "TPV" or "FTV".</li> <li>• If the information cannot be obtained due to a system failure, "0" may be displayed.</li> </ul> </div>
Capacity	<p>The volume capacity is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p>
Used Capacity	<p>The physically allocated capacity of volume is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When the volume type is other than "TPV" or "FTV"</li> <li>- When the volume is the Data Reduction (Deduplication and/or Compression) target volume</li> </ul> </li> </ul> </div>
Volume No.	<p>The volume number is displayed.</p> <p>The volume identifier that is used for systems such as Web GUI (Normal View) and CLI.</p>
Type	<p>The volume type is displayed.</p> <ul style="list-style-type: none"> <li>• Standard Volumes that are created in RAID groups or External RAID Groups.</li> <li>• TPV Thin Provisioning Volume. Volumes that are created in Thin Provisioning Pools.</li> <li>• FTV Flexible Tier Volume. Volumes that are created in Flexible Tier Pools. This volume is used as the target volume of the Automated Storage Tiering function.</li> <li>• WSV Wide Striping Volume. Volumes that are used to distribute data in multiple RAID groups.</li> <li>• SDV Snap Data Volume. Volumes that are used as copy destination volumes for SnapOPC or SnapOPC+.</li> <li>• SDPV Snap Data Pool Volume. Volumes that are used to configure Snap Data Pools.</li> <li>• Temporary Work volumes that are temporarily created. This volume is created only when expanding the Standard volume capacity.</li> </ul>

6. Volume  
Volume List View

Parameter Name	Description
Usage	<p>The usage of the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Block Volumes that are used for the SAN.</li> <li>• System Volumes that are used for internal control.</li> <li>• Migration Volumes that are being used for Non-disruptive Storage Migration.</li> <li>• VVOL Volumes that are used as virtual volumes.</li> <li>• Veeam Volumes that are used for Veeam Storage Integration.</li> <li>• ODX Volumes that are used for Offloaded Data Transfer.</li> </ul>
Detailed Status	<p>The detailed status of the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Available Normal state.</li> <li>• Spare In Use Redundancy is maintained by using the hot spare drive.</li> <li>• Reaying The volume is not formatted.</li> <li>• Rebuild A rebuild process is being performed from a failed drive to the hot spare drive or to the replaced drive.</li> <li>• Copyback Writing the data stored in the hot spare drive back to the replaced drive.</li> <li>• Redundant Copy A redundant copy is being performed to the hot spare drive.</li> <li>• Partially Exposed Rebuild A rebuild is being performed from the first failed drive to the hot spare drive or to the replaced drive (only for RAID6 and RAID6FR).</li> <li>• Exposed Rebuild Two drives have failed. A rebuild is being performed from the first failed drive to the hot spare drive or to the replaced drive (only for RAID6 and RAID6FR).</li> <li>• Exposed Redundancy has been lost due to drive failure.</li> <li>• Partially Exposed A drive has failed (only for RAID6 and RAID6FR).</li> <li>• Not Ready The RAID is blocked.</li> <li>• Broken Failed state.</li> <li>• Data Lost Data is lost. Reading or writing of data cannot be performed.</li> </ul>
UID	<p>The Universal Identifier (UID) of the volume is displayed. The UID is an identifier (device name) to specify a volume from the host.</p>

## 6. Volume

### Volume List View

Parameter Name	Description
EXC	Whether the volume is an Extreme Cache Pool target volume is displayed. <ul style="list-style-type: none"> <li>• Enabled The volume is an Extreme Cache Pool target volume.</li> <li>• Disabled The volume is not an Extreme Cache Pool target volume.</li> </ul>
Compression	Whether the Compression function is enabled is displayed. <ul style="list-style-type: none"> <li>• Enabled Compression is performed for the data written to the volumes.</li> <li>• Disabled Compression is not performed for the data written to the volumes.</li> </ul>
Deduplication	Whether the Deduplication function is enabled is displayed. <ul style="list-style-type: none"> <li>• Enabled Deduplication is performed for the data written to the volumes.</li> <li>• Disabled Deduplication is not performed for the data written to the volumes.</li> </ul>
Location	The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group where the volume belongs is displayed. <ul style="list-style-type: none"> <li>• When the volume type is "TPV": The Thin Provisioning Pool name is displayed.</li> <li>• When the volume type is "FTV": The Flexible Tier Pool name is displayed.</li> <li>• Other than above: The RAID group name is displayed.</li> </ul> For Thin Provisioning Pools, click a pool name to display its Detail View.
Selected: x	The number of selected volumes is displayed.

## Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	Select the number of resources to display per page in the list. The default number is 20. <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>
Name	Specify the name of the volume to be displayed in the list. Information of the volume whose name partially matches the input string is displayed. If no values are specified, the list will not be filtered by volume name. This item is blank by default.

**Information**

- The "Name" column cannot be hidden.
- Regular expressions such as "\*" can be used. To specify a resource name that includes a character used for regular expressions such as "\*", input an escape character (\) before the character.

6. Volume  
Volume List View

Parameter Name	Description
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default. This item is also used to select the status of the volume that is to be displayed in the list. The volumes that are in the selected status are displayed in the list.</p> <p>If no volume statuses are selected, the list will not be filtered by volume status. No volume statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Volumes in the "Normal" state are displayed.</li> <li>• Maintenance Volumes in the "Maintenance" state are displayed.</li> <li>• Warning Volumes in the "Warning" state are displayed.</li> <li>• Error Volumes in the "Error" state are displayed.</li> </ul>
Connected	<p>Select whether to display the "Connected" column in the list. The "Connected" column is displayed by default. This item is also used to select the connection status of the volume that is to be displayed in the list. The volumes that are in the selected connection status are displayed in the list.</p> <p>If no volume connection statuses are selected, the list will not be filtered by volume connection status. No volume connection statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Yes The volume, which is connected to the host, is displayed.</li> <li>• No The volume, which is not connected to the host, is displayed.</li> </ul>
Used Rate	<p>Select whether to display the "Used Rate" column in the list. The "Used Rate" column is displayed by default. This item is also used to specify the Used Rate threshold of the volume that is to be displayed in the list. Volumes that meet the specified threshold and condition are displayed. The input unit is "%".</p> <p>If no values are specified, the list will not be filtered by used rate. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>
Capacity	<p>Select whether to display the "Capacity" column in the list. The "Capacity" column is displayed by default. This item is also used to specify the Capacity threshold of the volume that is to be displayed in the list. Volumes that meet the specified threshold and condition are displayed. The input unit is "MB", "GB", "TB", or "PB".</p> <p>If no values are specified, the list will not be filtered by volume capacity. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>

6. Volume  
Volume List View

Parameter Name	Description
Used Capacity	<p>Select whether to display the "Used Capacity" column in the list. The "Used Capacity" column is not displayed by default.</p> <p>This item is also used to specify the Used Capacity threshold of the volume that is to be displayed in the list. Volumes that meet the specified threshold and condition are displayed.</p> <p>The input unit is "MB", "GB", "TB", or "PB".</p> <p>If no values are specified, the list will not be filtered by physically allocated capacity of volume. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>
Volume No.	<p>Select whether to display the "Volume No." column in the list. The "Volume No." column is not displayed by default.</p> <p>This item is also used to specify the volume number threshold of the volume that is to be displayed in the list. Volumes that meet the specified threshold and condition are displayed.</p> <p>If no values are specified, the list will not be filtered by volume number. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>
Type	Select whether to display the "Type" column in the list. The "Type" column is not displayed by default.
Usage	Select whether to display the "Usage" column in the list. The "Usage" column is not displayed by default.
Detailed Status	Select whether to display the "Detailed Status" column in the list. The "Detailed Status" column is not displayed by default.
UID	Select whether to display the "UID" column in the list. The "UID" column is not displayed by default.
EXC	<p>Select whether to display the "EXC" column in the list. The "EXC" column is not displayed by default.</p> <p>This item is also used to select the setting status of Extreme Cache Pool for the volume that is to be displayed in the list.</p> <p>Volumes that meet the specified setting status of Extreme Cache Pool are displayed.</p> <p>If no setting statuses of Extreme Cache Pool are selected, the list will not be filtered by the Extreme Cache Pool setting status. The setting status of Extreme Cache Pool is not selected by default.</p> <ul style="list-style-type: none"> <li>• Enabled Volumes whose "EXC" is "Enabled" are displayed.</li> <li>• Disabled Volumes whose "EXC" is "Disabled" are displayed.</li> </ul>
Compression	<p>Select whether to display the "Compression" column in the list. The "Compression" column is not displayed by default.</p> <p>This item is also used to select the Compression setting status of the volume that is to be displayed in the list. The volumes that are in the selected Compression setting status are displayed in the list.</p> <p>If no Compression setting statuses are selected, the list will not be filtered by Compression setting status. The Compression setting status is not selected by default.</p> <ul style="list-style-type: none"> <li>• Enabled Volumes whose "Compression" is "Enabled" are displayed.</li> <li>• Disabled Volumes whose "Compression" is "Disabled" are displayed.</li> </ul>

Parameter Name	Description
Deduplication	<p>Select whether to display the "Deduplication" column in the list. The "Deduplication" column is not displayed by default.</p> <p>This item is also used to select the Deduplication setting status of the volume that is to be displayed in the list. The volumes that are in the selected Deduplication setting status are displayed in the list.</p> <p>If no Deduplication setting statuses are selected, the list will not be filtered by Deduplication setting status. The Deduplication setting status is not selected by default.</p> <ul style="list-style-type: none"> <li>• Enabled Volumes whose "Deduplication" is "Enabled" are displayed.</li> <li>• Disabled Volumes whose "Deduplication" is "Disabled" are displayed.</li> </ul>
Location	<p>Select whether to display the "Location" column in the list. The "Location" column is not displayed by default. Specify the resource name of the volume to be displayed in the list.</p> <p>Information of the volume in the location that partially matches the input string is displayed. If no values are specified, the list will not be filtered by location. This item is blank by default.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>

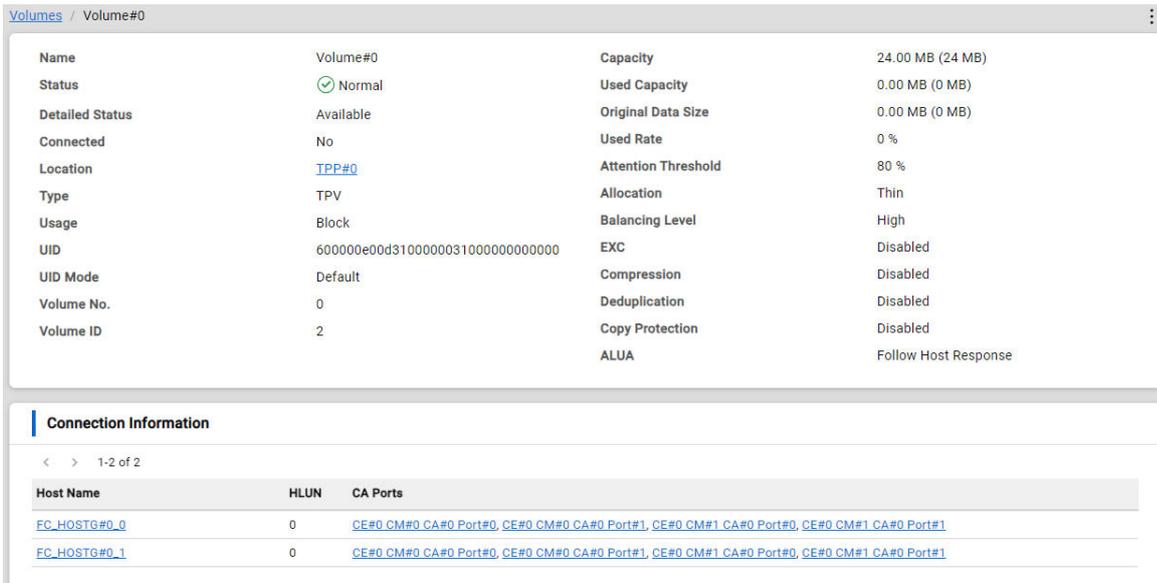
## Volume Detail View

- ["■ Overview" \(page 65\)](#)
- ["■ Screenshots" \(page 66\)](#)
- ["■ Actions" \(page 66\)](#)
- ["■ Display Items" \(page 67\)](#)

### ■ Overview

The detailed volume information is displayed.

## Screenshots



## Actions

Icon/Button	Description
	<p>Opens/closes the action menu of the volume. Click this icon to open a menu for the various operations that can be performed for the volume.</p> <ul style="list-style-type: none"> <li>• <b>Modify</b> This function changes the volume settings.</li> <li>• <b>Disconnect</b> Disconnects the connections from all the hosts to the volume.</li> <li>• <b>Delete</b> Deletes volumes.</li> </ul>
Back	<p>Displays the previous screen.</p> <div style="border: 2px solid orange; padding: 10px; margin: 10px 0;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>• To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Volumes / xxx	<p>Click "Volumes" to display its List View. "xxx" indicates the name of the currently displayed volume.</p>

## Connection Information

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.</p>

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The volume name is displayed.
Status	<p>The volume status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Detailed Status	<p>The detailed status of the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Available Normal state.</li> <li>• Spare In Use Redundancy is maintained by using the hot spare drive.</li> <li>• Reaying The volume is not formatted.</li> <li>• Rebuild A rebuild process is being performed from a failed drive to the hot spare drive or to the replaced drive.</li> <li>• Copyback Writing the data stored in the hot spare drive back to the replaced drive.</li> <li>• Redundant Copy A redundant copy is being performed to the hot spare drive.</li> <li>• Partially Exposed Rebuild A rebuild is being performed from the first failed drive to the hot spare drive or to the replaced drive (only for RAID6 and RAID6FR).</li> <li>• Exposed Rebuild Two drives have failed. A rebuild is being performed from the first failed drive to the hot spare drive or to the replaced drive (only for RAID6 and RAID6FR).</li> <li>• Exposed Redundancy has been lost due to drive failure.</li> <li>• Partially Exposed A drive has failed (only for RAID6 and RAID6FR).</li> <li>• Not Ready The RAID is blocked.</li> <li>• Broken Failed state.</li> <li>• Data Lost Data is lost. Reading or writing of data cannot be performed.</li> </ul>
Connected	<p>Whether the volume is connected from a host is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The volume that is being connected from a host.</li> <li>• No The unused volume that is not connected from the host.</li> </ul>

## 6. Volume

### Volume Detail View

Parameter Name	Description
Location	<p>The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group where the volume belongs is displayed.</p> <ul style="list-style-type: none"> <li>• When the volume type is "TPV": The Thin Provisioning Pool name is displayed.</li> <li>• When the volume type is "FTV": The Flexible Tier Pool name is displayed.</li> <li>• Other than above: The RAID group name is displayed.</li> </ul> <p>For Thin Provisioning Pools, click a pool name to display its Detail View.</p>
Type	<p>The volume type is displayed.</p> <ul style="list-style-type: none"> <li>• Standard Volumes that are created in RAID groups or External RAID Groups.</li> <li>• TPV Thin Provisioning Volume. Volumes that are created in Thin Provisioning Pools.</li> <li>• FTV Flexible Tier Volume. Volumes that are created in Flexible Tier Pools. This volume is used as the target volume of the Automated Storage Tiering function.</li> <li>• WSV Wide Striping Volume. Volumes that are used to distribute data in multiple RAID groups.</li> <li>• SDV Snap Data Volume. Volumes that are used as copy destination volumes for SnapOPC or SnapOPC+.</li> <li>• SDPV Snap Data Pool Volume. Volumes that are used to configure Snap Data Pools.</li> <li>• Temporary Work volumes that are temporarily created. This volume is created only when expanding the Standard volume capacity.</li> </ul>
Usage	<p>The usage of the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Block Volumes that are used for the SAN.</li> <li>• System Volumes that are used for internal control.</li> <li>• Migration Volumes that are being used for Non-disruptive Storage Migration.</li> <li>• VVOL Volumes that are used as virtual volumes.</li> <li>• Veeam Volumes that are used for Veeam Storage Integration.</li> <li>• ODX Volumes that are used for Offloaded Data Transfer.</li> </ul>
UID	<p>The Universal Identifier (UID) of the volume is displayed. The UID is an identifier (device name) to specify a volume from the server.</p>

6. Volume  
Volume Detail View

Parameter Name	Description
UID Mode	<p>The UID status of the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Default The default UID that was assigned when the volume was created is set.</li> <li>• Custom The UID is changed after the volume has been created.</li> <li>• External The volume information of the migration source volume has been inherited by Non-disruptive Storage Migration.</li> </ul>
Volume No.	<p>The volume number is displayed. The volume identifier that is used for systems such as Web GUI (Normal View) and CLI.</p>
Volume ID	<p>The volume ID is displayed. The volume identifier that is used for RESTful API.</p>
Capacity	<p>The volume capacity is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the capacity.</p>
Used Capacity	<p>The physically allocated capacity of volume is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the capacity.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When the volume type is other than "TPV" or "FTV"</li> <li>- When the volume is the Data Reduction (Deduplication and/or Compression) target volume</li> </ul> </li> </ul> </div>
Original Data Size	<p>The data size written to the volume is displayed.</p> <ul style="list-style-type: none"> <li>• For volumes where Deduplication or Compression is enabled This item indicates the data size before a reduction by Compression or Deduplication.</li> <li>• For volumes where Deduplication or Compression is disabled The value matches the Used Capacity.</li> </ul> <p>The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the data size.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When the volume type is other than "TPV" or "FTV"</li> <li>- When the "Usage" is "System"</li> </ul> </li> <li>• If the information cannot be obtained due to a system failure, "0" may be displayed.</li> </ul> </div>
Used Rate	<p>The ratio of the physically allocated capacity to the volume capacity is displayed. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the volume type is other than "TPV" or "FTV".</li> <li>• If the information cannot be obtained due to a system failure, "0" may be displayed.</li> </ul> </div>

6. Volume  
Volume Detail View

Parameter Name	Description
Attention Threshold	<p>The Used Rate threshold that triggers the volume host sense is displayed. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When the volume type is other than "TPV" or "FTV"</li> <li>- When the volumes are used as Data Container Volumes</li> </ul> </li> </ul> </div>
Allocation	<p>The allocation method for the volume is displayed.</p> <ul style="list-style-type: none"> <li>• Thick Physical area is allocated to the whole area of the volume when volumes are created.</li> <li>• Thin Physical area is allocated to the target area of the volume when a write I/O is received.</li> </ul> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the volume type is other than "TPV" or "FTV".</li> </ul> </div>
Balancing Level	<p>The balancing level of the volume is displayed. The balancing level of the physically allocated capacity of the RAID group that configures the Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• High The physically allocated capacity is equalized.</li> <li>• Medium The physically allocated capacity is slightly unequal.</li> <li>• Low The physically allocated capacity is significantly unequal.</li> </ul> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the volume type is other than "TPV".</li> </ul> </div>
EXC	<p>Whether the volume is an Extreme Cache Pool target volume is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The volume is an Extreme Cache Pool target volume.</li> <li>• Disabled The volume is not an Extreme Cache Pool target volume.</li> </ul>
Compression	<p>Whether the Compression function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Compression is performed for the data written to the volumes.</li> <li>• Disabled Compression is not performed for the data written to the volumes.</li> </ul>
Deduplication	<p>Whether the Deduplication function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Deduplication is performed for the data written to the volumes.</li> <li>• Disabled Deduplication is not performed for the data written to the volumes.</li> </ul>

## 6. Volume

### Create Volume Dialog

Parameter Name	Description
Copy Protection	Whether the volume is a copy protection target is displayed. <ul style="list-style-type: none"><li>• Enabled The volume cannot be used as a copy destination volume.</li><li>• Disabled The volume can be used as a copy destination volume.</li></ul>
ALUA	The Asymmetric Logical Unit Access (ALUA) setting is displayed. <ul style="list-style-type: none"><li>• Follow Host Response Use the same ALUA setting as the host response.</li><li>• ACTIVE ACTIVE The ALUA setting (ACTIVE / ACTIVE) is returned regardless of the host response setting.</li><li>• ACTIVE-ACTIVE PREFERRED PATH The ALUA setting (ACTIVE-ACTIVE / PREFERRED PATH) is returned regardless of the host response setting.</li></ul> <div style="border: 2px solid cyan; padding: 10px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• "N/A" is displayed for volumes that cannot be connected to the host. The following shows the volumes that cannot be connected to the host.<ul style="list-style-type: none"><li>- Volumes whose "Usage" is "System"</li><li>- Volumes whose "Usage" is "VVOL" or "ODX"</li><li>- SDPVs</li><li>- Temporary volumes</li></ul></li></ul></div>

#### Connection Information

Parameter Name	Description
Host Name	The name of the host that is connected to the relevant volume is displayed. Click a host name to display its Detail View.
HLUN	The HLUN of the volume is displayed.
CA Ports	The name of the CA port that can be used to reference the corresponding volume from the host is displayed. Click a CA port name to display its Detail View.

## Create Volume Dialog

- ["■ Overview" \(page 71\)](#)
- ["■ Input Dialog" \(page 72\)](#)
- ["■ Summary Dialog" \(page 74\)](#)
- ["■ Result Dialog" \(page 74\)](#)

### ■ Overview

This function creates new volumes.

**Caution**

- If the volume creation job fails with the "The internal resources are insufficient." error message, volumes whose "Detailed Status" is "Readying" may remain. If this occurs, manually delete the volume that is in the "Readying" state and then create the volume again, or use Web GUI (Normal View) to format the relevant volume.

**Information**

- Note that Easy Administration View only supports the creation of Thin Provisioning Volumes (TPVs). To create the following type volumes, use Web GUI (Normal View), CLI, or RESTful API.
  - Standard
  - Wide Striping Volume (WSV)
  - Snap Data Volume (SDV)
  - Snap Data Pool Volume (SDPV)
- If there are no Thin Provisioning Pools, volumes cannot be created. Create Thin Provisioning Pools where the volumes are to be created in advance using Web GUI (Normal View), CLI, or RESTful API.

■ Input Dialog

**Actions**

Icon/Button	Description
Confirm	Displays a screen to confirm the entered information. <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This screen is displayed when all the required items are correctly entered.</li> </ul> </div>
Cancel	Deletes the entered information, and then displays the previous screen.

**Setting Items**

Name	Description
Name (*1)	Specify the name of volumes to be created. If a value of "2" or larger is entered for "Count", the specified number of volumes are created with a volume name that starts with the character string entered in this item. For example, if "Name" is "Volume", "Count" is "3", "Number of Digits" is "2", and "Start Number" is "6", the name of the created volumes are "Volume06", "Volume07", and "Volume08". <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The length of the volume name is 1 to 32 characters.</li> <li>• Only the alphanumeric characters and symbols (except "," (comma) and "?") are available.</li> <li>• The same name as the existing volume cannot be used.</li> </ul> </div>

6. Volume  
Create Volume Dialog

Name	Description
Capacity (*1)	<p>Specify the capacity of volumes to be created.</p> <div style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The volume capacity range that can be created is between 24 MB to 128 TB.</li> <li>• 1 TB = 1024 GB = 1024 × 1024 MB</li> <li>• A decimal value can be specified as the capacity. Note that the third and subsequent places after the decimal point are ignored. In addition, the values after the decimal point are ignored when "MB" is selected.</li> <li>• When "GB" or "TB" is selected, the specified value is converted to "MB" and the values after the decimal point are ignored.</li> <li>• The total volume capacity that can be created in the Thin Provisioning Pool where Data Reduction is enabled is 2 PB.</li> <li>• Note that the total volume capacity that can be created in the storage system cannot exceed the maximum pool capacity of the storage system.</li> </ul> </div>
Location (*1)	<p>Select the Thin Provisioning Pool where the volumes are to be created. The following additional information is also displayed.</p> <ul style="list-style-type: none"> <li>• The physical free capacity of the selected Thin Provisioning Pool</li> <li>• Whether the Compression is enabled</li> <li>• Whether the Deduplication is enabled</li> </ul>
Count	<p>Specify the number of volumes to be created. The default number is 1.</p> <div style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The number of volumes that can be created at one time is between 1 to 512.</li> </ul> </div>
Start Number	<p>Enter the starting number of the serial number to be added to the new volume name when multiple volumes are created. This item is available when a value of "2" or larger is specified for "Count". The default number is 0.</p> <div style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The range of values that can be specified for "Start Number" is between 0 to 99999.</li> </ul> </div>
Number of Digits	<p>Enter the number of digits for the serial number to be added to the new volume name when multiple volumes are created. This item is available when a value of "2" or larger is specified for "Count". The default number is 1.</p> <div style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The range of values that can be specified for "Number of Digits" is between 1 to 5.</li> </ul> </div>

\*1 : Required setting items.

## ■ Summary Dialog

### Actions

Icon/Button	Description
Create	Starts the process to create volumes and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.
Back	Returns to the information input screen for the volume that is to be created.

### Display Items

Parameter Name	Description
Name	<p>The name of the volume that is to be created is displayed.</p> <div style="border: 2px solid orange; padding: 10px;"><p><b>Caution</b></p><ul style="list-style-type: none"><li>When multiple volumes are created and a volume with the same name as the volume name displayed in "Name" already exists, the serial number for the create volume name starts with the next unused number. Therefore, volumes may be created with names that are different from the volume names displayed in this item.</li></ul><p>For example, when a volume named "Volume#0" already exists and "Name" is "Volume#" and "Count" is "3", "Volume#0", "Volume#1", and "Volume#2" are displayed in this item. However, the actual volume names to be created are "Volume#1", "Volume#2", and "Volume#3".</p></div>
Capacity	<p>The capacity of each volume that is to be created is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the capacity.</p>
Location	<p>The Thin Provisioning Pool name where the volumes are to be created is displayed.</p> <p>The following additional information for the Thin Provisioning Pool where volumes are created is also displayed.</p> <ul style="list-style-type: none"><li>Free physical capacity</li><li>Whether the Compression is enabled</li><li>Whether the Deduplication is enabled</li></ul>

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	<p>Closes the execution result confirmation screen.</p> <div style="border: 2px solid cyan; padding: 10px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>This is displayed when volumes are created in the Volume List View.</li></ul></div>

6. Volume  
Create Volume Dialog

Icon/Button	Description
Return to Connect Volume	Closes the execution result confirmation screen and return to the Connect Volume to Host Dialog.
	<div style="border: 2px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This is displayed when volumes are created from the Connect Volume to Host Dialog.</li> <li>• The previous screen is not displayed when "Overall Status" is "Running". In this case, wait until "Overall Status" is changed to "Success" or "Error".</li> </ul> </div>

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	<p>The time when the process starts is displayed.</p> <p>The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
Elapsed Time	<p>The elapsed time after starting the process is displayed.</p> <p>The elapsed time is displayed in the following format.</p> <p>XX:YY:ZZ</p> <p>XX: Elapsed time (hours)</p> <p>YY: Elapsed time (minutes)</p> <p>ZZ: Elapsed time (seconds)</p>
	<div style="border: 2px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is displayed when "Overall Status" is "Running".</li> </ul> </div>

6. Volume  
Create Volume Dialog

Parameter Name	Description
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
	<div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>Success The job succeeded and the process is completed.</li> <li>Canceled The job is canceled and the process is completed.</li> <li>Running The job is being executed.</li> <li>Queued The job is waiting for execution.</li> <li>Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>

6. Volume  
Create Volume Dialog

Parameter Name	Description
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format. xxx: yyy xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed. yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details. The execution results are displayed on multiple lines if multiple operations are executed.</p>

• Resource(s)

Parameter Name	Description
Name	The name of the created volume is displayed.

Parameter Name	Description
UID	The Universal Identifier (UID) of the volume is displayed. The UID is an identifier (device name) to specify a volume from the host.

## Delete Volume Dialog

- ["■ Overview" \(page 78\)](#)
- ["■ Summary Dialog" \(page 79\)](#)
- ["■ Result Dialog" \(page 79\)](#)

### ■ Overview

This function deletes volumes.

#### Information

- When multiple volumes are specified and at least one volume that cannot be deleted is included in the list, an error occurs and volumes are not deleted.
- If the copy destination volumes (volumes used as a Snapshot or a Clone) are specified, the related copy sessions are also deleted.
- The following shows the volume types that can be deleted.
  - Standard
  - WSV
  - TPV
  - SDV
  - Temporary
- The following volumes cannot be deleted:
  - Volumes with mapping
  - Volumes undergoing RAID migration
  - Volumes undergoing TPV/FTRP balancing
  - Volumes undergoing storage migration
  - Volumes that are being used for the Storage Cluster function
  - Data Reduction enabled volumes that belong to the Thin Provisioning Pool that includes a Data Container Volume in the error status
  - Data Container Volumes
  - FTVs
  - SDPVs
  - ODX Buffer volumes
- The following Snapshot and Clone cannot be deleted. Delete these volumes after deleting the copy sessions using Web GUI (Normal View), CLI, or RESTful API.
  - Volumes whose "Volume Type" is other than "TPV"
  - Volumes that are used as copy source volumes for copy sessions
  - Volumes that are used for copy sessions whose copy range is "Extent"

- Snapshot or Clone is used for middle generation Snapshots
- Multiple Snapshots or Clones cannot be deleted at the same time. When "Delete Volume Dialog" is used to delete a Snapshot or a Clone, delete them one by one or delete the related copy sessions in advance.

## ■ Summary Dialog

### Actions

Icon/Button	Description
Delete	Starts the process to delete volumes and then displays the execution result confirmation screen.
Cancel	Displays the previous screen.

### Display Items

Parameter Name	Description
Selected Volume(s)	The name of the selected volume is displayed.

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)

6. Volume  
Delete Volume Dialog

Parameter Name	Description
Elapsed Time	<p>The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Running".</li> </ul> </div>
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>

6. Volume  
Delete Volume Dialog

Parameter Name	Description
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>

Parameter Name	Description
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format.</p> <p>xxx: yyy</p> <p>xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed.</p> <p>yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details.</p> <p>The execution results are displayed on multiple lines if multiple operations are executed.</p>

## Modify Volume Dialog

- ["■ Overview" \(page 82\)](#)
- ["■ Input Dialog" \(page 83\)](#)
- ["■ Summary Dialog" \(page 84\)](#)
- ["■ Result Dialog" \(page 84\)](#)

### ■ Overview

This function changes the volume settings.

#### Caution

- After the volume capacity is expanded, reboot the OS or rescan for hosts to recognize the expanded volume capacity.
- To expand Data Container Volumes, stop or suspend the Advanced Copy session of Data Reduction enabled volumes in the Thin Provisioning Pool to which the target Data Container Volume belongs.

#### Information

- The volume capacity cannot be changed if the volume matches the following conditions.
  - When the volume type is other than "TPV"
  - When the Advanced Copy session whose copy range is "Totally" is specified for the volume
  - When the balancing is being performed
  - When the RAID migration is being performed
  - When the storage migration is being performed
  - When the volume is being used for the Storage Cluster function
  - When the Data Container Volume is being expanded and the volume is in the error status
  - For volumes whose Data Reduction is enabled when the Data Container Volumes in the Thin Provisioning Pool to which the volume belongs is in the error status.

## Input Dialog

### Actions

Icon/Button	Description
Confirm	<p>Displays a screen to confirm the entered information.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>The confirmation screen is not displayed if all the required items are not changed correctly.</li> </ul> </div>
Cancel	Deletes the entered information, and then displays the previous screen.

### Setting Items

Icon/ Button	Description
Name	<p>Specify the new volume name. The current volume name is displayed by default.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>The length of the volume name is 1 to 32 characters.</li> <li>Only the alphanumeric characters and symbols (except "," (comma) and "?") are available.</li> <li>The same name as the existing volume cannot be used.</li> </ul> </div>
Capacity	<p>Enter the capacity after expansion. The current capacity is displayed by default.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>The maximum capacity after the expansion is 128 TB.</li> <li>The maximum capacity of an ODX Buffer volume is 1 TB.</li> <li>Although the maximum capacity of a Data Container Volume is 48 PB, the maximum expandable capacity in this screen is 128 TB. To expand the Data Container Volume to a capacity larger than 128 TB, use Web GUI (Normal View), CLI, or RESTful API.</li> <li>1 TB = 1024 GB = 1024 × 1024 MB</li> <li>A decimal value can be specified as the capacity. Note that the third and subsequent places after the decimal point are ignored. In addition, the values after the decimal point are ignored when "MB" is selected.</li> <li>When "GB" or "TB" is selected, the specified value is converted to "MB" and the values after the decimal point are ignored.</li> <li>The capacity cannot be changed for volumes other than TPVs.</li> <li>Values that are smaller than the capacity before the expansion cannot be specified.</li> <li>The total capacity of TPVs (except when the Data Reduction is enabled) and FTVs cannot be larger than the "Max. Pool Capacity" of the storage system.</li> <li>The total capacity of Data Reduction enabled volumes that can be created in a Data Reduction enabled Thin Provisioning Pool cannot be larger than ten times the capacity of the Data Container Volume.</li> </ul> </div>

## ■ Summary Dialog

### Actions

Icon/Button	Description
Modify	Starts the process to change the volume settings and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.
Back	Returns to the screen for changing the volume information.

### Display Items

Parameter Name	Description
Selected Volume	The name of the selected volume is displayed.
New Name	The new volume name is displayed. The current volume name is also displayed as additional information. <div style="border: 1px solid cyan; padding: 5px;"><b>Information</b><ul style="list-style-type: none"><li>• If the volume name is not changed, "-" is displayed.</li></ul></div>
New Capacity	The capacity after the expansion is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", or "TB" unit. The current capacity is also displayed as additional information. In addition, the capacity in units of MB is displayed next to the capacity. <div style="border: 1px solid cyan; padding: 5px;"><b>Information</b><ul style="list-style-type: none"><li>• If the volume capacity is not changed, "-" is displayed.</li></ul></div>

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

## Display Items

Parameter Name	Description
Start Time	<p>The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p>
Elapsed Time	<p>The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Running".</li> </ul> </div>
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

- Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>

6. Volume  
Modify Volume Dialog

Parameter Name	Description
Description	The overview of the job is displayed.
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>

Parameter Name	Description
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This information is for technical support.</li> </ul> </div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed. This information is displayed in the following format.</p> <p>xxx: yyy</p> <p>xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed.</p> <p>yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details.</p> <p>The execution results are displayed on multiple lines if multiple operations are executed.</p>

## Disconnect Volume from All Host Dialog

- "[■ Overview](#)" (page 87)
- "[■ Summary Dialog](#)" (page 88)
- "[■ Result Dialog](#)" (page 88)

### ■ Overview

This function disconnects the connections from the host to the volumes.

#### Caution

- Before disconnecting the host, stop access from the selected host to the volume.

#### Information

- The host affinity that is related to the selected host is deleted.
- If the LUN group used by the selected host becomes unused after the host affinity is deleted, that LUN group is deleted.
- Up to 256 volumes can be selected at the same time.
- Up to 64 hosts can be selected at the same time.
- If volumes that are not connected to any hosts are selected, the operation fails.
- If the volume is connected to a host that uses multiple LUN groups, the connection cannot be disconnected.
- The following volumes cannot be disconnected. Use ETERNUS SF Storage Cruiser to disconnect them.
  - VVOL
  - Volumes that are used in the Storage Cluster environment

## ■ Summary Dialog

### Actions

Icon/Button	Description
Disconnect	Starts the process to disconnect connections from the host to all the volumes and then displays the execution result confirmation screen.
Cancel	Deletes the entered information, and then displays the previous screen.

### Display Items

Parameter Name	Description
Selected Volume(s)	The name of the selected volume is displayed.

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Setting Items

Name	Description
Do not delete succeeded job information	Selects whether to delete the successful job information. They are deleted by default.

### Display Items

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)

## 6. Volume

### Disconnect Volume from All Host Dialog

Parameter Name	Description
Elapsed Time	<p>The elapsed time after starting the process is displayed. The elapsed time is displayed in the following format. XX:YY:ZZ XX: Elapsed time (hours) YY: Elapsed time (minutes) ZZ: Elapsed time (seconds)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Running".</li> </ul> </div>
Completion Time	<p>The completion time for all the jobs created by this process is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>This item is displayed when "Overall Status" is "Success" or "Error".</li> </ul> </div>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>Running The process is being performed.</li> <li>Success The process completed successfully.</li> <li>Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

#### • Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process are displayed.</p>
Description	<p>The overview of the job is displayed.</p>

## 6. Volume

### Disconnect Volume from All Host Dialog

Parameter Name	Description
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>

#### • Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li> </ul> </div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>

## 6. Volume

### Disconnect Volume from All Host Dialog

Parameter Name	Description
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 2px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This information is for technical support.</li></ul></div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed.</p> <p>This information is displayed in the following format.</p> <p>xxx: yyy</p> <p>xxx: The execution result. "Succeeded", "Failed", "Execute", or "Unexecuted" is displayed.</p> <p>yyy: Details of the operation. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details.</p> <p>The execution results are displayed on multiple lines if multiple operations are executed.</p>

# 7. Pool

## ■ Overview

The Thin Provisioning Pool information is displayed.

- "Pool List View" (page 92)
- "Pool Detail View" (page 97)

## Pool List View

- "■ Overview" (page 92)
- "■ Screenshots" (page 92)
- "■ Actions" (page 92)
- "■ Display Items" (page 93)
- "■ Filters" (page 94)

## ■ Overview

The Thin Provisioning Pool information is displayed in list form.

### Information

- Note that the information for Flexible Tier Sub Pools (FTSPs) used by the Automated Storage Tiering function is not displayed.

## ■ Screenshots

Name ^	Status	Used Rate ◯	Capacity ◯	Free Capacity ◯	Provisioned Rate ◯	Data Reduction Rate ◯
<a href="#">TPP#0</a>	✓ Normal	0 %	10.01 GB	10.01 GB	3 %	N/A
<a href="#">TPP#1</a>	✓ Normal	0 %	10.01 GB	10.01 GB	0 %	N/A
<a href="#">TPP#2</a>	✓ Normal	0 %	10.01 GB	10.01 GB	0 %	N/A

## ■ Actions

Icon/Button	Description
	Opens/closes the filter menu. Click this icon to open the filter menu to filter the display items and display resources of the list. Click this icon again to close the filter menu. The filter menu is closed by default.
< > X - Y of Z	Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.

## ■ Display Items

Parameter Name	Description
Name	The Thin Provisioning Pool name is displayed. Click a Thin Provisioning Pool name to display its Detail View.
Status	The Thin Provisioning Pool status is displayed. <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Detailed Status	The detailed status of the Thin Provisioning Pool is displayed. <ul style="list-style-type: none"> <li>• Available Normal state.</li> <li>• Maintenance Forcible recovery is being performed.</li> <li>• Readyng All the physical allocation area is unformatted.</li> <li>• Partially Readyng Some parts of the physical allocation area is not formatted.</li> <li>• Exposed Although the Thin Provisioning Pool can be used, the redundancy of the drive configuration is lost.</li> <li>• Blockade Blocked state.</li> <li>• Broken Failed state.</li> <li>• Data Lost Data is lost.</li> </ul>
Used Status	The used status of the Thin Provisioning Pool is displayed. <ul style="list-style-type: none"> <li>• Normal The usage does not exceed the "Attention" threshold.</li> <li>• Attention The usage reaches or exceeds the "Attention" threshold but does not reach the "Warning" threshold. If Data Container Volumes exist, the status also changes to "Attention" when the capacity reaches or exceeds the threshold (80 %).</li> <li>• Warning The usage reaches or exceeds the "Warning" threshold.</li> </ul>
Used Rate	The used rate of the Thin Provisioning Pool is displayed. The ratio of the used capacity to the total physical capacity is displayed in a band chart. In addition, the used rate (%) is displayed next to the band chart.
Capacity	The total physical capacity of the Thin Provisioning Pool is displayed. The capacity is displayed up to the second decimal place with the appropriate "GB", "TB", or "PB" unit.
Free Capacity	The physical free capacity of the Thin Provisioning Pool is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.
Used Capacity	The total for the physically allocated capacities of the volumes in the Thin Provisioning Pool is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.

7. Pool  
Pool List View

Parameter Name	Description
Provisioned Rate	<p>The provisioning rate of the Thin Provisioning Pool is displayed. The ratio of the total logical capacity to the total physical capacity is displayed. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If Data Reduction for the relevant Thin Provisioning Pool is enabled, "N/A" is displayed.</li> </ul> </div>
Provisioned Capacity	<p>The total logical capacity of the volumes in the Thin Provisioning Pool is displayed. The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Note that Provisioned Capacity does not include the Data Container Volume capacity.</li> </ul> </div>
Data Reduction Rate	<p>The data reduction rate of the Thin Provisioning Pool is displayed. The ratio of the reduced data size by Data Reduction to the written data size is displayed. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If Data Reduction for the relevant Thin Provisioning Pool is disabled, "N/A" is displayed.</li> </ul> </div>
Pool No.	<p>The Thin Provisioning Pool number is displayed. It is an identifier of the Thin Provisioning Pools used for systems such as Web GUI (Normal View) and CLI.</p>
Compression	<p>Whether the Compression function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Compression is performed for the data written to the volumes in the Thin Provisioning Pool.</li> <li>• Disabled Compression is not performed for the data written to the volumes in the Thin Provisioning Pool.</li> </ul>
Deduplication	<p>Whether the Deduplication function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Deduplication is performed for the data written to the volumes in the Thin Provisioning Pool.</li> <li>• Disabled Deduplication is not performed for the data written to the volumes in the Thin Provisioning Pool.</li> </ul>

■ Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>

7. Pool  
Pool List View

Parameter Name	Description
Name	<p>Specify the name of the Thin Provisioning Pool to display in the list. Information of the Thin Provisioning Pool whose name partially matches the input string is displayed.</p> <p>If no values are specified, the list will not be filtered by Thin Provisioning name. This item is blank by default.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The "Name" column cannot be hidden.</li> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default. This item is also used to select the status of the Thin Provisioning Pool that is to be displayed in the list. The Thin Provisioning Pools that are in the selected status are displayed in the list.</p> <p>If no Thin Provisioning Pool statuses are selected, the list will not be filtered by status. No Thin Provisioning Pool statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Thin Provisioning Pools in the "Normal" state are displayed.</li> <li>• Maintenance Thin Provisioning Pools in the "Maintenance" state are displayed.</li> <li>• Warning Thin Provisioning Pools in the "Warning" state are displayed.</li> <li>• Error Thin Provisioning Pools in the "Error" state are displayed.</li> </ul>
Detailed Status	<p>Select whether to display the "Detailed Status" column in the list. The "Detailed Status" column is not displayed by default.</p>
Used Status	<p>Select whether to display the "Used Status" column in the list. The "Used Status" column is not displayed by default.</p> <p>This item is also used to select the used status of the Thin Provisioning Pool that is to be displayed in the list. The Thin Provisioning Pools that are in the selected used status are displayed in the list.</p> <p>If no used statuses of the Thin Provisioning Pools are selected, the list will not be filtered by status. No used statuses of the Thin Provisioning Pool are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Thin Provisioning Pools whose used status is "Normal" are displayed.</li> <li>• Attention Thin Provisioning Pools whose used status is "Attention" are displayed.</li> <li>• Warning Thin Provisioning Pools whose used status is "Warning" are displayed.</li> </ul>
Used Rate	<p>Select whether to display the "Used Rate" column in the list. The "Used Rate" column is displayed by default. This item is also used to specify the usage threshold of the Thin Provisioning Pool to be displayed in the list. Thin Provisioning Pools that meet the specified threshold and condition are displayed.</p> <p>The input unit is "%".</p> <p>If no values are specified, the list will not be filtered by used rate. This item is blank by default.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>
Capacity	<p>Select whether to display the "Capacity" column in the list. The "Capacity" column is displayed by default.</p>

7. Pool  
Pool List View

Parameter Name	Description
Free Capacity	<p>Select whether to display the "Free Capacity" column in the list. The "Free Capacity" column is displayed by default.</p> <p>This item is also used to specify the threshold for free physical capacity of the Thin Provisioning Pool to be displayed in the list.</p> <p>Thin Provisioning Pools that meet the specified threshold and condition are displayed.</p> <p>The input unit is "MB", "GB", "TB", or "PB".</p> <p>If no values are specified, the list will not be filtered by free physical capacity. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>Only numerical values are specifiable.</li> <li>The input value is rounded down to the nearest whole number.</li> </ul> </div>
Used Capacity	<p>Select whether to display the "Used Capacity" column in the list. The "Used Capacity" column is not displayed by default.</p>
Provisioned Rate	<p>Select whether to display the "Provisioned Rate" column in the list. The "Provisioned Rate" column is displayed by default.</p> <p>This item is also used to specify the threshold for the provisioning rate of the Thin Provisioning Pool to be displayed in the list.</p> <p>Thin Provisioning Pools that meet the specified threshold and condition are displayed.</p> <p>The input unit is "%".</p> <p>If no values are specified, the list will not be filtered by provisioning rate. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>Only numerical values are specifiable.</li> <li>The input value is rounded down to the nearest whole number.</li> </ul> </div>
Provisioned Capacity	<p>Select whether to display the "Provisioned Capacity" column in the list. The "Provisioned Capacity" column is not displayed by default.</p>
Data Reduction Rate	<p>Select whether to display the "Data Reduction Rate" column in the list. The "Data Reduction Rate" column is displayed by default.</p>
Pool No.	<p>Select whether to display the "Pool No." column in the list. The "Pool No." column is not displayed by default.</p> <p>This item is also used to specify the threshold for the Thin Provisioning Pool number to be displayed in the list.</p> <p>Thin Provisioning Pools that meet the specified threshold and condition are displayed.</p> <p>If no values are specified, the list will not be filtered by Thin Provisioning Pool number. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>Only numerical values are specifiable.</li> <li>The input value is rounded down to the nearest whole number.</li> </ul> </div>

Parameter Name	Description
Compression	<p>Select whether to display the "Compression" column in the list. The "Compression" column is not displayed by default.</p> <p>This item is also used to select the Compression setting of the Thin Provisioning Pool to be displayed in the list. The Thin Provisioning Pools in the selected Compression setting are displayed in the list.</p> <p>If no Compression setting statuses are selected, the list will not be filtered by Compression setting status. The Compression setting status is not selected by default.</p> <ul style="list-style-type: none"><li>• Enabled The Thin Provisioning Pools whose Compression setting is "Enabled" are displayed.</li><li>• Disabled The Thin Provisioning Pools whose Compression setting is "Disabled" are displayed.</li></ul>
Deduplication	<p>Select whether to display the "Deduplication" column in the list. The "Deduplication" column is not displayed by default.</p> <p>This item is also used to select the Deduplication setting of the Thin Provisioning Pool to be displayed in the list. The Thin Provisioning Pools in the selected Deduplication setting are displayed in the list.</p> <p>If no Deduplication setting statuses are selected, the list will not be filtered by Deduplication setting status. The Deduplication setting status is not selected by default.</p> <ul style="list-style-type: none"><li>• Enabled The Thin Provisioning Pools whose Deduplication setting is "Enabled" are displayed.</li><li>• Disabled The Thin Provisioning Pools whose Deduplication setting is "Disabled" are displayed.</li></ul>

## Pool Detail View

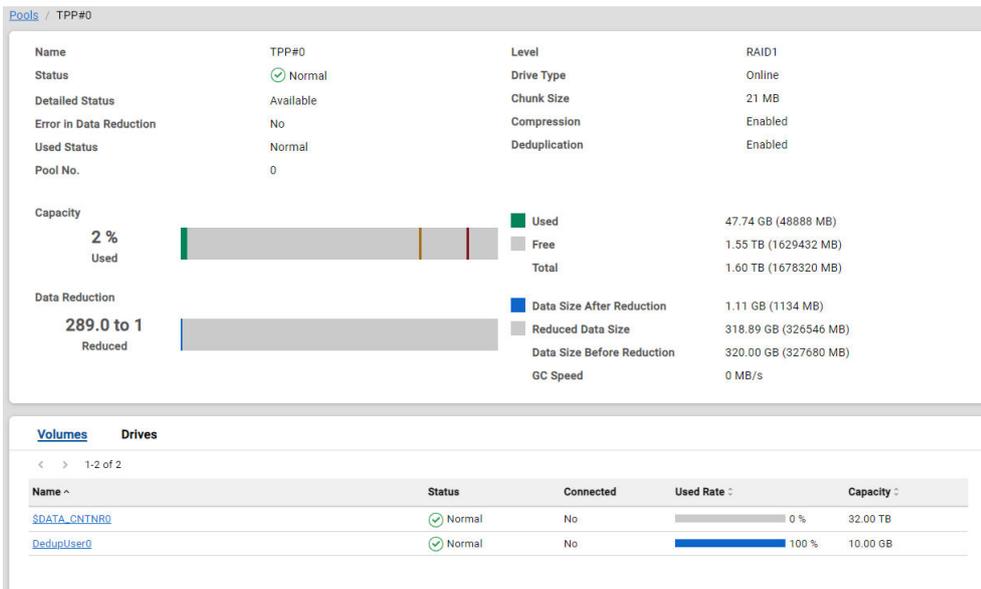
- ["■ Overview" \(page 97\)](#)
- ["■ Screenshots" \(page 98\)](#)
- ["■ Actions" \(page 98\)](#)
- ["■ Display Items" \(page 98\)](#)
- ["■ Filters" \(page 103\)](#)

### ■ Overview

The detailed Thin Provisioning Pool information is displayed.

7. Pool  
Pool Detail View

■ Screenshots



■ Actions

Icon/Button	Description
Back	Displays the previous screen.
	<div style="border: 2px solid orange; padding: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Pools / xxx	Click "Pools" to display the Thin Provisioning Pool List View. "xxx" indicates the name of the currently displayed Thin Provisioning Pool.

**Volume Information / Drive Information**

Icon/Button	Description
< > X - Y of Z	Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.

■ Display Items

**Basic Information (Common)**

Parameter Name	Description
Name	The Thin Provisioning Pool name is displayed.

## 7. Pool

### Pool Detail View

Parameter Name	Description
Status	<p>The Thin Provisioning Pool status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Detailed Status	<p>The detailed status of the Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• Available Normal state.</li> <li>• Maintenance Forcible recovery is being performed.</li> <li>• Readyng All the physical allocation area is unformatted.</li> <li>• Partially Readyng Some parts of the physical allocation area is not formatted.</li> <li>• Exposed Although the Thin Provisioning Pool can be used, the redundancy of the drive configuration is lost.</li> <li>• Blockade Blocked state.</li> <li>• Broken Failed state.</li> <li>• Data Lost Data is lost.</li> </ul>
Error in Data Reduction	<p>Whether an error occurs in the Data Reduction function (Deduplication and/or Compression) of the relevant Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• Yes An error occurs in the Data Container Volumes due to problems such as a hardware failure, and the Data Reduction function of the relevant Thin Provisioning Pool is not operating normally.</li> <li>• No Data Reduction for the relevant Thin Provisioning Pool is operating normally or it is disabled.</li> </ul>
Used Status	<p>The used status of the Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The usage does not exceed the "Attention" threshold.</li> <li>• Attention The usage reaches or exceeds the "Attention" threshold but does not reach the "Warning" threshold. If Data Container Volumes exist, the status also changes to "Attention" when the capacity reaches or exceeds the threshold (80 %).</li> <li>• Warning The usage reaches or exceeds the "Warning" threshold.</li> </ul>
Pool No.	<p>The Thin Provisioning Pool number is displayed. It is an identifier of the Thin Provisioning Pools used for systems such as Web GUI (Normal View) and CLI.</p>

## 7. Pool

### Pool Detail View

Parameter Name	Description
Level	<p>The level of RAID group that configures the Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• RAID0 Striping</li> <li>• RAID1 Mirroring</li> <li>• RAID5 High Capacity</li> <li>• RAID6 High Reliability</li> <li>• RAID10 High Performance</li> <li>• RAID6FR RAID6 (Fast Recovery)</li> </ul>
Drive Type	<p>The type of drive that configures the Thin Provisioning Pool is displayed.</p> <ul style="list-style-type: none"> <li>• Online Online HDD</li> <li>• Nearline Nearline HDD</li> <li>• SSD SAS SSD</li> <li>• NVMe SSD NVMe SSD</li> <li>• Online SED Online HDD SED</li> <li>• Nearline SED Nearline HDD SED</li> <li>• SSD SED SAS SSD SED</li> <li>• NVMe SSD SED NVMe SSD SED</li> </ul>
Chunk Size	<p>The chunk size of the Thin Provisioning Pool is displayed. It is the smallest physical capacity unit that is assigned to the volume. The unit is "MB".</p>
Compression	<p>Whether the Compression function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Compression is performed for the data written to the volumes in the Thin Provisioning Pool.</li> <li>• Disabled Compression is not performed for the data written to the volumes in the Thin Provisioning Pool.</li> </ul>
Deduplication	<p>Whether the Deduplication function is enabled is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled Deduplication is performed for the data written to the volumes in the Thin Provisioning Pool.</li> <li>• Disabled Deduplication is not performed for the data written to the volumes in the Thin Provisioning Pool.</li> </ul>

### Basic Information (Capacity When Data Reduction Is Enabled)

Parameter Name	Description
Used Rate	<p>The used rate of the Thin Provisioning Pool is displayed.</p> <p>The ratio of the used capacity to the total physical capacity is displayed.</p> <p>The unit is "%".</p> <p>The following information is also displayed in the band chart.</p> <ul style="list-style-type: none"> <li>Warning threshold (the Used Capacity threshold that triggers the Used Status to change to "Warning")</li> <li>Attention threshold (the Used Capacity threshold that triggers the Used Status to change to "Attention")</li> </ul>
Used	<p>The total for the physically allocated capacities of the volumes in the Thin Provisioning Pool is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed to the right of the total for the physically allocated capacities.</p>
Free	<p>The physical free capacity of the Thin Provisioning Pool is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed next to the physical free capacity.</p>
Total	<p>The total physical capacity of the Thin Provisioning Pool is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed next to the total physical capacity.</p>

### Basic Information (Capacity When Data Reduction Is Disabled)

Parameter Name	Description
Used Rate	<p>The used rate of the Thin Provisioning Pool is displayed.</p> <p>The ratio of the used capacity to the total physical capacity is displayed.</p> <p>The unit is "%".</p>
Provisioned Rate	<p>The provisioning rate of the Thin Provisioning Pool is displayed.</p> <p>The ratio of the total logical capacity to the total physical capacity is displayed.</p> <p>The unit is "%".</p>
Used	<p>The total for the physically allocated capacities of the volumes in the Thin Provisioning Pool is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed to the right of the total for the physically allocated capacities.</p>
Physical	<p>The total physical capacity of the Thin Provisioning Pool is displayed as a bar chart and as a numerical values.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed next to the total physical capacity.</p> <p>The following information is also displayed in the band chart.</p> <ul style="list-style-type: none"> <li>Warning threshold (the Used Capacity threshold that triggers the Used Status to change to "Warning")</li> <li>Attention threshold (the Used Capacity threshold that triggers the Used Status to change to "Attention")</li> </ul>
Provisioned	<p>The total logical capacity of the volumes in the Thin Provisioning Pool is displayed.</p> <p>This item is displayed as a bar chart and numerical value.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB", "TB", or "PB" unit.</p> <p>In addition, the capacity in units of MB is displayed next to the total logical capacity.</p>

### Basic Information (Data Reduction)

Parameter Name	Description
Data Reduction Ratio	The ratio of the reduced data size by Data Reduction to the written data size is displayed. This item is displayed as a band chart and numerical value. The value is displayed in the "X : 1" format (X is the pre-reduction data size when the post-reduction data capacity is assumed to be "1").
Data Size After Reduction	The post-reduction data size is displayed. The displayed value is the total size of the post-reduction data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled. The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the size of the post-reduction data.
Reduced Data Size	The deleted data size is displayed. The displayed value is the total size of the data that is deleted by Data Reduction from the data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled. The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity is displayed in units of MB next to the size of the deleted data.
Data Size Before Reduction	The pre-reduction data size is displayed. The displayed value is the total size of the pre-reduction data written to the volume that belongs to the Thin Provisioning Pool whose Data Reduction is enabled. The data size is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit. In addition, the capacity in units of MB is displayed next to the size of the pre-reduction data.
GC Speed	The operation speed of Garbage Collection is displayed. The value that is displayed is the operation speed for releasing the physically allocated area that is no longer required due to Data Reduction. The unit is "MB/s".

### Volume Information

Parameter Name	Description
Name	The name of the volume that is created in the Thin Provisioning Pool is displayed. Click a volume name to display its Detail View.
Status	The volume status is displayed. <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Connected	Whether the volume is connected from a host is displayed. <ul style="list-style-type: none"> <li>• Yes The volume that is being connected from a host.</li> <li>• No The unused volume that is not connected from the host.</li> </ul>

Parameter Name	Description
Used Rate	<p>The usage rate of the volume is displayed.</p> <p>The ratio of the physically allocated capacity to the volume capacity is displayed in a band chart.</p> <p>In addition, the used rate (%) is displayed next to the band chart.</p> <div style="border: 2px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the information cannot be obtained due to a system failure, "0" is displayed.</li> </ul> </div>
Capacity	<p>The volume capacity is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "MB", "GB", "TB", or "PB" unit.</p>

### Drive Information

Parameter Name	Description
Name	<p>The name of drive that configures the relevant Thin Provisioning Pool is displayed.</p> <p>Click a drive name to display its Detail View.</p>
Status	<p>The drive status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Capacity	<p>The capacity of the drive is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB" or "TB" unit.</p>

## ■ Filters

### Drive Information

Parameter Name	Description
Select a drive status	<p>Select the status of the drive that is to be displayed in the list.</p> <p>The drives that are in the selected status are displayed in the list.</p> <p>If no statuses are selected, the list will not be filtered by status. No statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Drives in the "Normal" state are displayed.</li> <li>• Unused Drives in the "Unused" state are displayed.</li> <li>• Maintenance Drives in the "Maintenance" state are displayed.</li> <li>• Warning Drives in the "Warning" state are displayed.</li> <li>• Error Drives in the "Error" state are displayed.</li> </ul>

# 8. Hardware

## ■ Overview

The storage system information, enclosure information, CA port information, and drive information are displayed.

- ["Hardware Detail View" \(page 104\)](#)
- ["Enclosure List View" \(page 109\)](#)
- ["CE Detail View" \(page 111\)](#)
- ["FE Detail View" \(page 117\)](#)
- ["DE Detail View" \(page 121\)](#)
- ["CA Port List View" \(page 125\)](#)
- ["CA Port Detail View" \(page 128\)](#)
- ["Drive List View" \(page 133\)](#)
- ["Drive Detail View" \(page 138\)](#)

## Hardware Detail View

- ["■ Overview" \(page 104\)](#)
- ["■ Screenshots" \(page 104\)](#)
- ["■ Display Items" \(page 104\)](#)

## ■ Overview

The information of the storage system is displayed.

## ■ Screenshots

Hardware			
Storage System Name	FA#304	Thin Provisioning	Enabled
Status	✔ Normal	Maximum Pool Capacity	256 TB
Detailed Status	Normal	Data Reduction	Enabled
Write Through Mode	No	Local Copy	Enabled
Model Name	ET205SA	Local Copy License Type	Full
Serial Number	4601907044	Remote Copy	Enabled
WWN	500000E0db146900	Remote Copy License Type	Full
Box ID	00ETERNUSDXLS5ET205SA####LM4601907044##	Extreme Cache Pool	Enabled
Firmware Version	V11L60-0000		

## ■ Display Items

### Basic Information

Parameter Name	Description
Storage System Name	The name of the storage system is displayed.

8. Hardware  
Hardware Detail View

Parameter Name	Description
Status	<p>The general status of the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The storage system is in the normal state.</li> <li>• Maintenance The storage system is under maintenance.</li> <li>• Warning The storage system is in the warning state.</li> <li>• Error The storage system is in the failed state.</li> </ul> <div data-bbox="344 611 1474 741" style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" policy, "N/A" is displayed.</li> </ul> </div>
Detailed Status	<p>The detailed status of the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The storage system is in the normal state.</li> <li>• Maintenance Components that are undergoing maintenance exist in the storage system. Or rebuild/copyback is being performed.</li> <li>• Change Controlling CM Changing of the Controlling CM is required.</li> <li>• Pinned Data Pinned data is detected.</li> <li>• Warning The component requires preventive maintenance. Or a bad sector is detected.</li> <li>• Error The component has an error.</li> <li>• Not Ready A failure is detected when starting or turning off the storage system. I/O from the host cannot be received normally.</li> <li>• Subsystem Down The storage system is in the failed state. I/O from the host cannot be received normally.</li> </ul> <div data-bbox="344 1462 1474 1592" style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" policy, "N/A" is displayed.</li> </ul> </div>
Write Through Mode	<p>The current status of the cache is displayed.</p> <ul style="list-style-type: none"> <li>• Yes When a Write request is issued from the host, "Write Complete" is displayed after writing to both the cache area and the drives is complete.</li> <li>• No When a Write request is issued from the host, "Write Complete" is displayed after writing to the cache area is complete.</li> </ul> <div data-bbox="344 1883 1474 2036" style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>

8. Hardware  
Hardware Detail View

Parameter Name	Description
Model Name	<p>The model name of the storage system is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>
Serial Number	<p>The serial number of the storage system is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>
WWN	<p>The WWN of the storage system is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>
Box ID	<p>The Box ID of the storage system is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>
Firmware Version	<p>The total version number of the current controller firmware is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the "Status Display" or "Maintenance Operation" policy, "N/A" is displayed.</li> </ul> </div>
Thin Provisioning	<p>The Thin Provisioning setting for the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The Thin Provisioning function is enabled.</li> <li>• Disabled The Thin Provisioning function is disabled.</li> </ul> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed. <ul style="list-style-type: none"> <li>- Status Display</li> <li>- RAID Group Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>

8. Hardware  
Hardware Detail View

Parameter Name	Description
Maximum Pool Capacity	<p>The maximum pool capacity for the storage system is displayed. The capacity is displayed with the appropriate "TB" or "PB" unit.</p> <div data-bbox="344 353 1476 600" style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed.               <ul style="list-style-type: none"> <li>- Status Display</li> <li>- RAID Group Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>
Data Reduction	<p>The Data Reduction setting for the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The Data Reduction function of the storage system is enabled.</li> <li>• Disabled The Data Reduction function of the storage system is disabled.</li> </ul> <div data-bbox="344 815 1476 1061" style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed.               <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Storage Management</li> <li>- Maintenance Operation</li> </ul> </li> </ul> </div>
Local Copy	<p>Whether the Local Advanced Copy function of the storage system is available is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The Advanced Copy function is available.</li> <li>• Disabled The Local Advanced Copy function is not available.</li> </ul> <div data-bbox="344 1285 1476 1532" style="border: 1px solid cyan; padding: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed.               <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Advanced Copy Management</li> <li>- Copy Session Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>

8. Hardware  
Hardware Detail View

Parameter Name	Description
Local Copy License Type	<p>The Local Advanced Copy license type of the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Trial A trial license is registered.</li> <li>• Full A full license is registered. All of the Advanced Copy functions can be used.</li> </ul> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, or the Local Advanced Copy function is not available, "N/A" is displayed. <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Advanced Copy Management</li> <li>- Copy Session Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>
Remote Copy	<p>Whether the Remote Advanced Copy function of the storage system is available is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The Remote Advanced Copy function is available.</li> <li>• Disabled The Remote Advanced Copy function is not available.</li> </ul> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed. <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Advanced Copy Management</li> <li>- Copy Session Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>
Remote Copy License Type	<p>The Remote Advanced Copy license type of the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Trial A trial license is registered.</li> <li>• Full A full license is registered. All of the Advanced Copy functions can be used.</li> </ul> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, or the Remote Advanced Copy function is not available, "N/A" is displayed. <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Advanced Copy Management</li> <li>- Copy Session Management</li> <li>- Storage Management</li> </ul> </li> </ul> </div>

Parameter Name	Description
Extreme Cache Pool	<p>The Extreme Cache Pool setting of the storage system is displayed.</p> <ul style="list-style-type: none"> <li>• Enabled The Extreme Cache Pool function is enabled.</li> <li>• Disabled The Extreme Cache Pool function is disabled.</li> </ul> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the current user does not have the following policies, "N/A" is displayed. <ul style="list-style-type: none"> <li>- Status Display</li> <li>- Volume - Create / Modify</li> <li>- Storage Management</li> </ul> </li> </ul> </div>

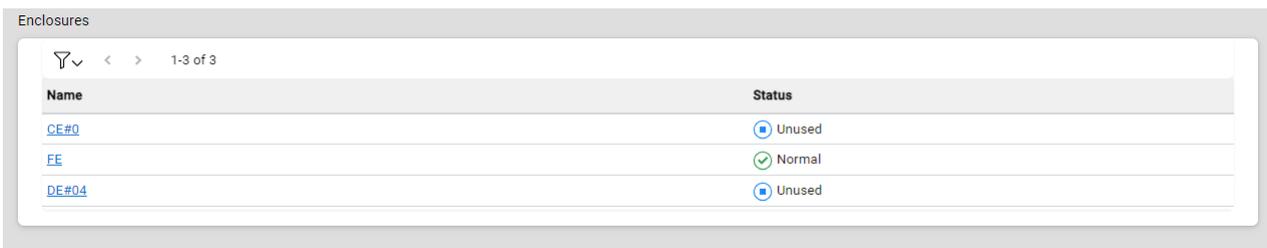
## Enclosure List View

- ["■ Overview" \(page 109\)](#)
- ["■ Screenshots" \(page 109\)](#)
- ["■ Actions" \(page 109\)](#)
- ["■ Display Items" \(page 110\)](#)
- ["■ Filters" \(page 110\)](#)

### ■ Overview

The enclosure information is displayed in list form.

### ■ Screenshots



### ■ Actions

Icon/Button	Description
	<p>Opens/closes the filter menu.</p> <p>Click this icon to open the filter menu to filter the display items and display resources of the list.</p> <p>Click this icon again to close the filter menu. The filter menu is closed by default.</p>

8. Hardware  
Enclosure List View

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>

■ Display Items

Parameter Name	Description
Name	<p>The enclosure name is displayed.</p> <p>Click an enclosure name to display the Detail View for that enclosure type.</p>
Status	<p>The enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>

■ Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>
Name	<p>Specify the name of the enclosure to be displayed in the list.</p> <p>Information of the enclosure whose name partially matches the specified string is displayed.</p> <p>If no values are specified, the list will not be filtered by enclosure name. This item is blank by default.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• The "Name" column cannot be hidden.</li> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>

Parameter Name	Description
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default. This item is also used to select the status of the enclosure that is to be displayed in the list. The enclosures that are in the selected status are displayed in the list.</p> <p>If no enclosure statuses are selected, the list will not be filtered by status. No enclosure statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Enclosures in the "Normal" state are displayed.</li> <li>• Unused Enclosures in the "Unused" state are displayed.</li> <li>• Maintenance Enclosures in the "Maintenance" state are displayed.</li> <li>• Warning Enclosures in the "Warning" state are displayed.</li> <li>• Error Enclosures in the "Error" state are displayed.</li> </ul>

## CE Detail View

- ["■ Overview" \(page 111\)](#)
- ["■ Screenshots" \(page 111\)](#)
- ["■ Actions" \(page 112\)](#)
- ["■ Display Items" \(page 112\)](#)
- ["■ Filters" \(page 117\)](#)

### ■ Overview

The detailed Controller Enclosure information is displayed.

### ■ Screenshots

Enclosures / CE#0

Name	CE#0	Temperature Status	Normal
Status	Unused	Temperature	39 °C
Detailed Status	Undefined		

**CMs** CA Ports DAs Drives PSUs BBUs

Name	Status
CM#0	Unused
CM#0 BUD#0	Normal
CM#0 BUD#1	Normal
CM#1	Unused
CM#1 BUD#0	Normal
CM#1 BUD#1	Normal

Back

## ■ Actions

Icon/Button	Description
Back	<p>Displays the previous screen.</p> <div style="border: 2px solid orange; padding: 10px; margin-top: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Enclosures / xxx	<p>Click "Enclosures" to display its List View. "xxx" indicates the name of the currently displayed enclosure.</p>

### CA Port Information / Drive Information

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The enclosure name is displayed.
Status	<p>The enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>Normal Normal state.</li> <li>Unused Unused state.</li> <li>Maintenance Maintenance state.</li> <li>Warning Preventive maintenance is required.</li> <li>Error An error occurred and maintenance is required.</li> </ul>

8. Hardware  
CE Detail View

Parameter Name	Description
Detailed Status	<p>The detailed enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The component is operating normally.</li> <li>• Unconnected A faulty component exists in the storage system.</li> <li>• Undefined The component is installed, but not used.</li> <li>• Undefined-Error Parts Exist The component, which is not being used, is in the error state.</li> <li>• Normal-Unused Parts Exist There is an unused component that is installed in the storage system.</li> <li>• Maintenance The component is under maintenance.</li> <li>• Warning The component requires preventive maintenance.</li> <li>• Error An error has occurred in the component.</li> </ul>
Temperature Status	<p>The ambient temperature status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Temperature	<p>The ambient temperature is displayed. The unit is "°C".</p> <div style="border: 2px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• When the information cannot be obtained due to a sensor failure, "0" is displayed.</li> </ul> </div>

**CM Information**

Parameter Name	Description
Name	The component name is displayed.

## 8. Hardware

### CE Detail View

Parameter Name	Description
Status	The component status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

### CA Port Information

Parameter Name	Description
Name	The CA port name is displayed. Click a CA port name to display its Detail View.
Status	The CA port status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>
Type	The interface type of the CA port is displayed. <ul style="list-style-type: none"><li>• FC FC interface ports</li><li>• iSCSI iSCSI interface ports</li><li>• FCLINK Mainframe interface ports</li></ul>
Link Speed	The link status of the CA port is displayed. The unit is "Gbps". <div data-bbox="347 1659 1477 1832" style="border: 2px solid cyan; padding: 10px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• "N/A" is displayed when "Type" is other than "FC" or "iSCSI".</li><li>• For linkdown, "0" is displayed.</li></ul></div>

### DA Information

Parameter Name	Description
Name	The DA name is displayed.

8. Hardware  
CE Detail View

Parameter Name	Description
Status	<p>The DA status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Type	<p>The DA type is displayed.</p> <ul style="list-style-type: none"> <li>• SAS The connecting interface is SAS.</li> <li>• NVMe The connecting interface is NVMe.</li> </ul>

### Drive Information

Parameter Name	Description
Name	<p>The drive name is displayed.</p> <p>Click a drive name to display its Detail View.</p>
Status	<p>The drive status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Capacity	<p>The capacity of the drive is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB" or "TB" unit.</p> <p>It may differ from the product's actual capacity.</p>
Allocated Resource	<p>The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group that is configured by the drive is displayed.</p> <p>For Dedicated Hot Spares, the RAID group name where the Dedicated Hot Spare is registered is displayed.</p> <p>For Thin Provisioning Pools, click a pool name to display its Detail View.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- Unused drives</li> <li>- For tenant users, drives that do not configure the resources that belong to the current user's tenant</li> </ul> </li> </ul> </div>

### PSU Information

Parameter Name	Description
Name	The PSU name is displayed.
Status	The PSU status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

### BBU Information

Parameter Name	Description
Name	The BBU name is displayed.
Status	The BBU status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>
Charge Rate	The BBU charge level is displayed in a band chart. In addition, the charge level (%) is displayed next to the band chart. When the charge level is 90% or more, "100" is displayed.
Expiration Date	The BBU expiration date is displayed. The display format is "YYYY-MM". YYYY: Year (AD) MM: Month (01 - 12)

## ■ Filters

### CA Port Information

Parameter Name	Description
Select a CA port status	<p>Select the status of the CA port that is to be displayed in the list.</p> <p>The CA ports that are in the selected status are displayed in the list.</p> <p>If no statuses are selected, the list will not be filtered by status. No statuses are selected by default.</p> <ul style="list-style-type: none"><li>• Normal CA ports in the "Normal" state are displayed.</li><li>• Unused CA ports in the "Unused" state are displayed.</li><li>• Maintenance CA ports in the "Maintenance" state are displayed.</li><li>• Warning CA ports in the "Warning" state are displayed.</li><li>• Error CA ports in the "Error" state are displayed.</li></ul>

### Drive Information

Parameter Name	Description
Select a drive status	<p>Select the status of the drive that is to be displayed in the list.</p> <p>The drives that are in the selected status are displayed in the list.</p> <p>If no statuses are selected, the list will not be filtered by status. No statuses are selected by default.</p> <ul style="list-style-type: none"><li>• Normal Drives in the "Normal" state are displayed.</li><li>• Unused Drives in the "Unused" state are displayed.</li><li>• Maintenance Drives in the "Maintenance" state are displayed.</li><li>• Warning Drives in the "Warning" state are displayed.</li><li>• Error Drives in the "Error" state are displayed.</li></ul>

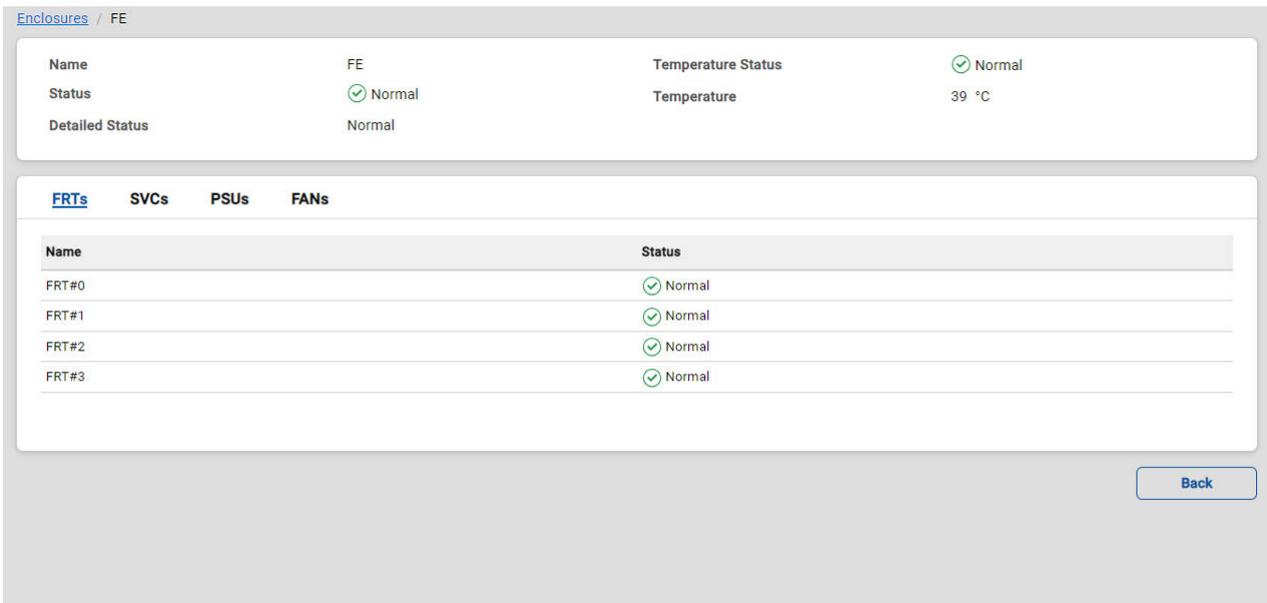
## FE Detail View

- ["■ Overview" \(page 117\)](#)
- ["■ Screenshots" \(page 118\)](#)
- ["■ Actions" \(page 118\)](#)
- ["■ Display Items" \(page 118\)](#)

### ■ Overview

The detailed Frontend Enclosure information is displayed.

## Screenshots



## Actions

Icon/Button	Description
Back	<p>Displays the previous screen.</p> <div style="border: 2px solid orange; padding: 10px; margin-top: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Enclosures / xxx	<p>Click "Enclosures" to display its List View.</p> <p>"xxx" indicates the name of the currently displayed enclosure.</p>

## Display Items

### Basic Information

Parameter Name	Description
Name	The enclosure name is displayed.
Status	<p>The enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>Normal Normal state.</li> <li>Unused Unused state.</li> <li>Maintenance Maintenance state.</li> <li>Warning Preventive maintenance is required.</li> <li>Error An error occurred and maintenance is required.</li> </ul>

8. Hardware  
FE Detail View

Parameter Name	Description
Detailed Status	<p>The detailed enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The component is operating normally.</li> <li>• Unconnected A faulty component exists in the storage system.</li> <li>• Undefined The component is installed, but not used.</li> <li>• Undefined-Error Parts Exist The component, which is not being used, is in the error state.</li> <li>• Normal-Unused Parts Exist There is an unused component that is installed in the storage system.</li> <li>• Maintenance The component is under maintenance.</li> <li>• Warning The component requires preventive maintenance.</li> <li>• Error An error has occurred in the component.</li> </ul>
Temperature Status	<p>The ambient temperature status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Temperature	<p>The ambient temperature is displayed. The unit is "°C".</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• When the information cannot be obtained due to a sensor failure, "0" is displayed.</li> </ul> </div>

**FRT Information**

Parameter Name	Description
Name	The FRT name is displayed.

Parameter Name	Description
Status	The FRT status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

### SVC Information

Parameter Name	Description
Name	The SVC name is displayed.
Status	The SVC status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

### PSU Information

Parameter Name	Description
Name	The PSU name is displayed.
Status	The PSU status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

### FAN Information

Parameter Name	Description
Name	The fan name is displayed.

Parameter Name	Description
Status	<p>The fan status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>

## DE Detail View

- "[Overview](#)" (page 121)
- "[Screenshots](#)" (page 121)
- "[Actions](#)" (page 122)
- "[Display Items](#)" (page 122)
- "[Filters](#)" (page 125)

### Overview

The detailed Drive Enclosure (DE) information is displayed.

### Screenshots

The screenshot shows the 'Enclosures / DE#04' page. At the top, there is a summary table for the enclosure:

Name	DE#04	Temperature Status	Normal
Status	Unused	Temperature	29 °C
Detailed Status	Normal-Unused Parts Exist		
Number of Drive Slots	24		
Type	SAS		

Below this is a section for 'Drives' with tabs for 'IOMs' and 'PSUs'. The 'Drives' tab is active, showing a table with 5 rows of drive information. A filter dropdown is set to 'Select a drive status'. The table columns are Name, Status, Capacity, and Allocated Resource.

Name ^	Status	Capacity	Allocated Resource
<a href="#">DE#04 Slot#00</a>	Normal	914.30 TB	<a href="#">TPP#0</a>
<a href="#">DE#04 Slot#01</a>	Normal	914.30 TB	<a href="#">TPP#1</a>
<a href="#">DE#04 Slot#02</a>	Normal	914.30 TB	<a href="#">TPP#2</a>
<a href="#">DE#04 Slot#03</a>	Unused	914.30 TB	N/A
<a href="#">DE#04 Slot#04</a>	Unused	914.30 TB	N/A

A 'Back' button is located at the bottom right of the interface.

## ■ Actions

Icon/Button	Description
Back	<p>Displays the previous screen.</p> <div style="border: 2px solid orange; padding: 10px; margin-top: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
Enclosures / xxx	<p>Click "Enclosures" to display its List View.</p> <p>"xxx" indicates the name of the currently displayed enclosure.</p>

## Drive Information

Icon/Button	Description
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The enclosure name is displayed.
Status	<p>The enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>Normal Normal state.</li> <li>Unused Unused state.</li> <li>Maintenance Maintenance state.</li> <li>Warning Preventive maintenance is required.</li> <li>Error An error occurred and maintenance is required.</li> </ul>

8. Hardware  
DE Detail View

Parameter Name	Description
Detailed Status	<p>The detailed enclosure status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal The component is operating normally.</li> <li>• Unconnected A faulty component exists in the storage system.</li> <li>• Undefined The component is installed, but not used.</li> <li>• Undefined-Error Parts Exist The component, which is not being used, is in the error state.</li> <li>• Normal-Unused Parts Exist There is an unused component that is installed in the storage system.</li> <li>• Maintenance The component is under maintenance.</li> <li>• Warning The component requires preventive maintenance.</li> <li>• Error An error has occurred in the component.</li> </ul>
Number of Drive Slots	The maximum number of drives that can be installed is displayed.
Type	<p>The DE type is displayed.</p> <ul style="list-style-type: none"> <li>• SAS DEs where SAS drives can be installed.</li> <li>• NVMe DEs where NVMe SSDs can be installed.</li> </ul>
Temperature Status	<p>The ambient temperature status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Temperature	<p>The ambient temperature is displayed. The unit is "°C".</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• When the information cannot be obtained due to a sensor failure, "0" is displayed.</li> </ul> </div>

**Drive Information**

Parameter Name	Description
Name	<p>The drive name is displayed. Click a drive name to display its Detail View.</p>

## 8. Hardware

### DE Detail View

Parameter Name	Description
Status	<p>The drive status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>
Capacity	<p>The capacity of the drive is displayed.</p> <p>The capacity is displayed up to the second decimal place with the appropriate "GB" or "TB" unit.</p> <p>It may differ from the product's actual capacity.</p>
Allocated Resource	<p>The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group that is configured by the drive is displayed.</p> <p>For Dedicated Hot Spares, the RAID group name where the Dedicated Hot Spare is registered is displayed.</p> <p>For Thin Provisioning Pools, click a pool name to display its Detail View.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- Unused drives</li> <li>- For tenant users, drives that do not configure the resources that belong to the current user's tenant</li> </ul> </li> </ul> </div>

### IOM Information

Parameter Name	Description
Name	The IOM name is displayed.
Status	<p>The IOM status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>

### PSU Information

Parameter Name	Description
Name	The PSU name is displayed.

Parameter Name	Description
Status	<p>The PSU status is displayed.</p> <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

## ■ Filters

### Drive Information

Parameter Name	Description
Select a drive status	<p>Select the status of the drive that is to be displayed in the list.</p> <p>The drives that are in the selected status are displayed in the list.</p> <p>If no statuses are selected, the list will not be filtered by status. No statuses are selected by default.</p> <ul style="list-style-type: none"><li>• Normal Drives in the "Normal" state are displayed.</li><li>• Unused Drives in the "Unused" state are displayed.</li><li>• Maintenance Drives in the "Maintenance" state are displayed.</li><li>• Warning Drives in the "Warning" state are displayed.</li><li>• Error Drives in the "Error" state are displayed.</li></ul>

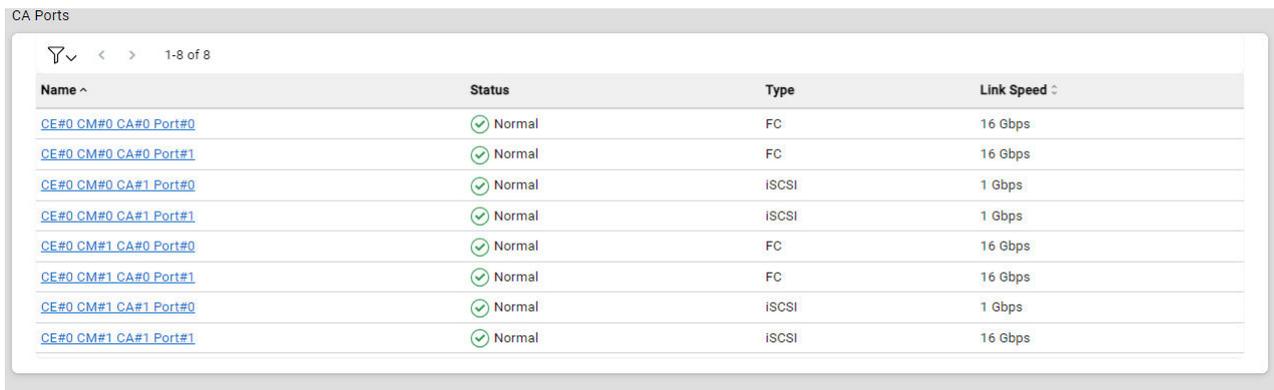
## CA Port List View

- ["■ Overview" \(page 125\)](#)
- ["■ Screenshots" \(page 126\)](#)
- ["■ Actions" \(page 126\)](#)
- ["■ Display Items" \(page 126\)](#)
- ["■ Filters" \(page 128\)](#)

## ■ Overview

The CA port information is displayed in list form.

## Screenshots



Name ^	Status	Type	Link Speed
<a href="#">CE#0 CM#0 CA#0 Port#0</a>	✓ Normal	FC	16 Gbps
<a href="#">CE#0 CM#0 CA#0 Port#1</a>	✓ Normal	FC	16 Gbps
<a href="#">CE#0 CM#0 CA#1 Port#0</a>	✓ Normal	iSCSI	1 Gbps
<a href="#">CE#0 CM#0 CA#1 Port#1</a>	✓ Normal	iSCSI	1 Gbps
<a href="#">CE#0 CM#1 CA#0 Port#0</a>	✓ Normal	FC	16 Gbps
<a href="#">CE#0 CM#1 CA#0 Port#1</a>	✓ Normal	FC	16 Gbps
<a href="#">CE#0 CM#1 CA#1 Port#0</a>	✓ Normal	iSCSI	1 Gbps
<a href="#">CE#0 CM#1 CA#1 Port#1</a>	✓ Normal	iSCSI	16 Gbps

## Actions

Icon/Button	Description
	<p>Opens/closes the filter menu.</p> <p>Click this icon to open the filter menu to filter the display items and display resources of the list.</p> <p>Click this icon again to close the filter menu. The filter menu is closed by default.</p>
< > X - Y of Z	<p>Changes the List page.</p> <p>Click the left arrow icon to return to the previous page.</p> <p>Click the right arrow icon to proceed to the next page.</p> <p>The location of the currently displayed resource and the total number of resources are also displayed.</p> <p>X: The start point of the currently displayed list element.</p> <p>Y: The end point of the currently displayed list element.</p> <p>Z: The total number of elements.</p>

## Display Items

Parameter Name	Description
Name	<p>The CA port name is displayed.</p> <p>Click a CA port name to display its Detail View.</p>
Enclosure	<p>The enclosure name in which the CA port is installed is displayed.</p> <p>Click an enclosure name to display its Detail View.</p>
Status	<p>The CA port status is displayed.</p> <ul style="list-style-type: none"> <li>• Normal Normal state.</li> <li>• Unused Unused state.</li> <li>• Maintenance Maintenance state.</li> <li>• Warning Preventive maintenance is required.</li> <li>• Error An error occurred and maintenance is required.</li> </ul>

8. Hardware  
CA Port List View

Parameter Name	Description
Type	<p>The interface type of the CA port is displayed.</p> <ul style="list-style-type: none"> <li>• FC FC interface ports</li> <li>• iSCSI iSCSI interface ports</li> <li>• FCLINK Mainframe interface ports</li> </ul>
Port Mode	<p>The operation mode of the CA port is displayed.</p> <ul style="list-style-type: none"> <li>• CA Host connection mode</li> <li>• RA REC connection mode</li> <li>• RFCF Remote File Copy Facility mode</li> <li>• Initiator FC initiator mode</li> <li>• CARA Host connection mode and REC connection mode</li> </ul>
SFP Type	<p>The SFP type of the CA port is displayed.</p> <ul style="list-style-type: none"> <li>• 16G SWL SFP Plus 16G Short Wave Laser SFP+</li> <li>• 32G SWL SFP Plus 32G Short Wave Laser SFP+</li> <li>• 64G SWL SFP Plus 64G Short Wave Laser SFP+</li> <li>• 10GBase-SR SFP Plus 10GBase-SR SFP+</li> <li>• 10GBase-CU SFP Plus 10GBase-CU SFP+ (Twinax)</li> <li>• 16G LWL SFP Plus 16G Long Wave Laser SFP+</li> <li>• 32G LWL SFP Plus 32G Long Wave Laser SFP+</li> </ul>
Maximum Speed	<p>The maximum transfer speed of the CA port is displayed. The unit is "Gbps".</p>
Link Speed	<p>The link status of the CA port is displayed. The unit is "Gbps".</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is other than "FC" or "iSCSI".</li> <li>• For linkdown, "0" is displayed.</li> </ul> </div>

## Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>
Enclosure	<p>Select whether to display the "Enclosure" column in the list. The "Enclosure" column is not displayed by default. This item is also used to select the enclosure where the CA port to be displayed in the list is installed. The CA ports that are installed in the selected enclosure are displayed in the list.</p> <p>If the "Enclosure" checkbox is cleared, the list will not be filtered by enclosure. The "Enclosure" checkbox is cleared by default.</p> <ul style="list-style-type: none"> <li>• CE#x CA ports that are installed in CE#x are displayed.</li> </ul>
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default. This item is also used to select the status of the CA port that is to be displayed in the list. The CA ports that are in the selected status are displayed in the list.</p> <p>If no CA port statuses are selected, the list will not be filtered by status. No CA port statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal CA ports in the "Normal" state are displayed.</li> <li>• Unused CA ports in the "Unused" state are displayed.</li> <li>• Maintenance CA ports in the "Maintenance" state are displayed.</li> <li>• Warning CA ports in the "Warning" state are displayed.</li> <li>• Error CA ports in the "Error" state are displayed.</li> </ul>
Type	Select whether to display the "Type" column in the list. The "Type" column is displayed by default.
Port Mode	Select whether to display the "Port Mode" column in the list. The "Port Mode" column is not displayed by default.
SFP Type	Select whether to display the "SFP Type" column in the list. The "SFP Type" column is not displayed by default.
Maximum Speed	Select whether to display the "Maximum Speed" column in the list. The "Maximum Speed" column is not displayed by default.
Link Speed	Select whether to display the "Link Speed" column in the list. The "Link Speed" column is displayed by default.

## CA Port Detail View

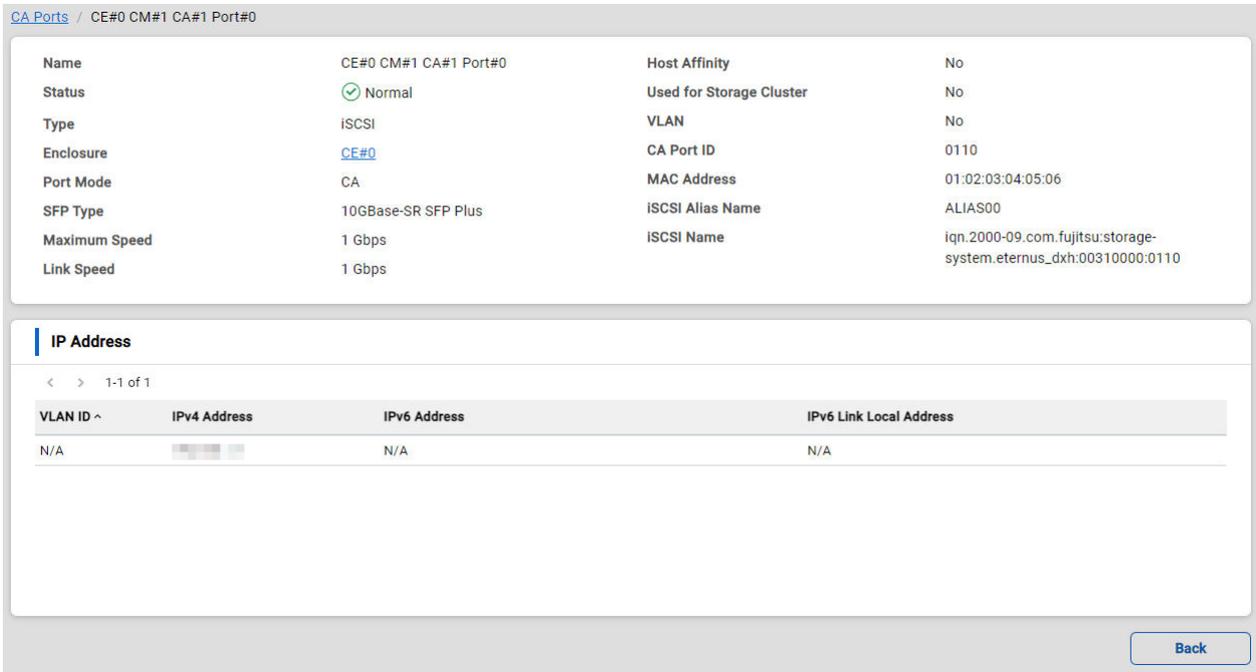
- ["Overview" \(page 129\)](#)
- ["Screenshots" \(page 129\)](#)

- "Actions" (page 129)
- "Display Items" (page 130)

**Overview**

The detailed CA port information is displayed.

**Screenshots**



**Actions**

Icon/Button	Description
Back	Displays the previous screen.
	<div style="border: 2px solid orange; padding: 10px;"> <p><b>Caution</b></p> <ul style="list-style-type: none"> <li>To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li> </ul> </div>
CA Ports/ xxx	Click "CA Ports" to display CA Port List View. "xxx" indicates the name of the currently displayed CA port.

**IP Address Information**

Icon/Button	Description
< > X - Y of Z	Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The CA port name is displayed.
Status	The CA port status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>
Type	The interface type of the CA port is displayed. <ul style="list-style-type: none"><li>• FC FC interface ports</li><li>• iSCSI iSCSI interface ports</li><li>• FCLINK Mainframe interface ports</li></ul>
Enclosure	The enclosure name in which the CA port is installed is displayed. Click an enclosure name to display its Detail View.
Port Mode	The operation mode of the CA port is displayed. <ul style="list-style-type: none"><li>• CA Host connection mode</li><li>• RA REC connection mode</li><li>• RFCF Remote File Copy Facility mode</li><li>• Initiator FC initiator mode</li><li>• CARA Host connection mode and REC connection mode</li></ul>

8. Hardware  
CA Port Detail View

Parameter Name	Description
SFP Type	<p>The SFP type of the CA port is displayed.</p> <ul style="list-style-type: none"> <li>• 16G SWL SFP Plus 16G Short Wave Laser SFP+</li> <li>• 32G SWL SFP Plus 32G Short Wave Laser SFP+</li> <li>• 64G SWL SFP Plus 64G Short Wave Laser SFP+</li> <li>• 10GBase-SR SFP Plus 10GBase-SR SFP+</li> <li>• 10GBase-CU SFP Plus 10GBase-CU SFP+ (Twinax)</li> <li>• 16G LWL SFP Plus 16G Long Wave Laser SFP+</li> <li>• 32G LWL SFP Plus 32G Long Wave Laser SFP+</li> </ul>
Maximum Speed	<p>The maximum transfer speed of the CA port is displayed. The unit is "Gbps".</p>
Link Speed	<p>The link status of the CA port is displayed. The unit is "Gbps".</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "FC" or "iSCSI".</li> <li>• For linkdown, "0" is displayed.</li> </ul> </div>
Host Affinity	<p>Whether the host affinity mode is enabled for the CA port is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The affinity mode is "Enable".</li> <li>• No The host affinity mode is "Disable" and the connection setting is not available.</li> </ul> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "FC" or "iSCSI".</li> <li>• "N/A" is displayed when "Port Mode" is other than "CA" or "CARA".</li> </ul> </div>
Used for Storage Cluster	<p>Whether the CA port is used for the Storage Cluster function is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The CA port is used for the Storage Cluster function and the connection setting is not available.</li> <li>• No The CA port is not used for the Storage Cluster function.</li> </ul> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "FC" or "iSCSI".</li> <li>• "N/A" is displayed when "Port Mode" is other than "CA" or "CARA".</li> </ul> </div>

8. Hardware  
CA Port Detail View

Parameter Name	Description
VLAN	<p>Whether the VLAN function is enabled or disabled is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The VLAN function is enabled.</li> <li>• No The VLAN function is disabled.</li> </ul> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "iSCSI".</li> </ul> </div>
CA Port ID	The CA port identifier that is used for RESTful API is displayed.
MAC Address	<p>The MAC address of the CA port is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "iSCSI".</li> </ul> </div>
iSCSI Alias Name	<p>The iSCSI Alias name is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "iSCSI".</li> </ul> </div>
iSCSI Name	<p>The iSCSI name is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "iSCSI".</li> </ul> </div>
WWPN	<p>The World Wide Port Name is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "FC".</li> </ul> </div>

**IP Address Information (only for iSCSI)**

Parameter Name	Description
VLAN ID	<p>The VLAN ID of the CA port is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the VLAN function is disabled.</li> </ul> </div>
IPv4 Address	<p>The IP address (IPv4) of the CA port is displayed.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when IPv4 is not used.</li> </ul> </div>

8. Hardware  
Drive List View

Parameter Name	Description
IPv6 Address	<p>The connect IP address (IPv6) of the CA port is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>"N/A" is displayed when IPv6 is not used.</li> </ul> </div>
IPv6 Link Local Address	<p>The link local address (IPv6) of the CA port is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>"N/A" is displayed when IPv6 is not used.</li> </ul> </div>

## Drive List View

- "■ Overview" (page 133)
- "■ Screenshots" (page 133)
- "■ Actions" (page 134)
- "■ Display Items" (page 134)
- "■ Filters" (page 136)

### ■ Overview

The drive information is displayed in list form.

### ■ Screenshots

The screenshot shows a web interface titled "Drives" with a search icon and "1-20 of 48" items. Below is a table with the following data:

Name ^	Status	Capacity ▾	Type	Allocated Resource
<a href="#">CE#0 Slot#00</a>	✓ Normal	914.30 TB	Nearline	<a href="#">TPP#0</a>
<a href="#">CE#0 Slot#01</a>	✓ Normal	914.30 TB	Nearline	<a href="#">TPP#1</a>
<a href="#">CE#0 Slot#02</a>	✓ Normal	914.30 TB	Nearline	<a href="#">TPP#2</a>
<a href="#">CE#0 Slot#03</a>	✓ Normal	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#04</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#05</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#06</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#07</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#08</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#09</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#10</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#11</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#12</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#13</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#14</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#15</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#16</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#17</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#18</a>	⊘ Unused	914.30 TB	Nearline	N/A
<a href="#">CE#0 Slot#19</a>	⊘ Unused	914.30 TB	Nearline	N/A

## ■ Actions

Icon/Button	Description
	Opens/closes the filter menu. Click this icon to open the filter menu to filter the display items and display resources of the list. Click this icon again to close the filter menu. The filter menu is closed by default.
< > X - Y of Z	Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.

## ■ Display Items

Parameter Name	Description
Name	The drive name is displayed. Click a drive name to display its Detail View.
Enclosure	The enclosure name where the drive is installed is displayed. Click an enclosure name to display its Detail View.
Status	The drive status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

8. Hardware  
Drive List View

Parameter Name	Description
Detailed Status	<p>The detailed drive status is displayed.</p> <ul style="list-style-type: none"> <li>• Available The drive is in the normal state. The drive is being used such as for RAID groups.</li> <li>• Spare The drive is registered as a hot spare.</li> <li>• Present The drive is in the unused state.</li> <li>• Readying The drive is starting up.</li> <li>• Rebuild-Copyback A rebuild/copyback is being performed in the drive.</li> <li>• Redundant Copy A redundant copy is being performed in the drive.</li> <li>• Not Supported The drive is not supported.</li> <li>• Not Exist The drive cannot be recognized.</li> <li>• Failed Usable An error involving RAID group failure has occurred in the drive.</li> <li>• Broken An error has occurred in the drive.</li> </ul>
Health	<p>The drive lifetime (or remaining life) is displayed. As the lifetime of the drive is reduced, the value is decreased. The unit is "%".</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When "Type" is other than "SAS SSD", "SAS SSD SED", "NVMe SSD", or "NVMe SSD SED".</li> <li>- When data is being deleted or the drive lifetime cannot be obtained.</li> </ul> </li> </ul> </div>
Capacity	<p>The capacity of the drive is displayed. The capacity is displayed up to the second decimal place with the appropriate "GB" or "TB" unit. It may differ from the product's actual capacity.</p>

## 8. Hardware

### Drive List View

Parameter Name	Description
Type	<p>The drive type is displayed.</p> <ul style="list-style-type: none"> <li>• Online Online HDD</li> <li>• Nearline Nearline HDD</li> <li>• SSD SAS SSD</li> <li>• NVMe SSD NVMe SSD</li> <li>• Online SED Online HDD SED</li> <li>• Nearline SED Nearline HDD SED</li> <li>• SSD SED SAS SSD SED</li> <li>• NVMe SSD SED NVMe SSD SED</li> </ul>
Hot Spare	<p>Whether the drive is registered as a hot spare is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The drive is registered as a hot spare.</li> <li>• No The drive is used for user data or an unused drive.</li> </ul>
Allocated Resource	<p>The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group that is configured by the drive is displayed.</p> <p>For Dedicated Hot Spares, the RAID group name where the Dedicated Hot Spare is registered is displayed.</p> <p>For Thin Provisioning Pools, click a pool name to display its Detail View.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- Unused drives</li> <li>- For tenant users, drives that do not configure the resources that belong to the current user's tenant</li> </ul> </li> </ul> </div>

## ■ Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>

8. Hardware  
Drive List View

Parameter Name	Description
Enclosure	<p>Select whether to display the "Enclosure" column in the list. The "Enclosure" column is not displayed by default. This item is also used to select the enclosure where the drive to be displayed in the list is installed. The drives that are installed in the selected enclosure are displayed in the list.</p> <p>If the "Enclosure" checkbox is cleared, the list will not be filtered by enclosure. The "Enclosure" checkbox is cleared by default.</p> <ul style="list-style-type: none"> <li>• CE#x Drives that are installed in CE#x are displayed.</li> <li>• DE#yy Drives that are installed in DE#yy are displayed.</li> </ul>
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default. This item is also used to select the status of the drive that is to be displayed in the list. The drives that are in the selected status are displayed in the list.</p> <p>If no drive statuses are selected, the list will not be filtered by status. No drive statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Normal Drives in the "Normal" state are displayed.</li> <li>• Unused Drives in the "Unused" state are displayed.</li> <li>• Maintenance Drives in the "Maintenance" state are displayed.</li> <li>• Warning Drives in the "Warning" state are displayed.</li> <li>• Error Drives in the "Error" state are displayed.</li> </ul>
Detailed Status	Select whether to display the "Detailed Status" column in the list. The "Detailed Status" column is not displayed by default.
Health	Select whether to display the "Health" column in the list. The "Health" column is not displayed by default.
Capacity	<p>Select whether to display the "Capacity" column in the list. The "Capacity" column is displayed by default. This item is also used to specify the threshold of the drive capacity that is to be displayed in the list. Drives that meet the specified threshold and condition are displayed. The unit is "GB" or "TB".</p> <p>If no values are specified, the list will not be filtered by capacity. This item is blank by default.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Only numerical values are specifiable.</li> <li>• The input value is rounded down to the nearest whole number.</li> </ul> </div>
Type	<p>Select whether to display the "Type" column in the list. The "Type" column is displayed by default. This item is also used to select the type of the drive that is to be displayed in the list. The drives of the selected type are displayed in the list.</p> <p>If no drive types are selected, the list will not be filtered by type. No drive types are selected by default.</p> <ul style="list-style-type: none"> <li>• Online Drives whose type is "Online" or "Online SED" are displayed.</li> <li>• Nearline Drives whose type is "Nearline" or "Nearline SED" are displayed.</li> <li>• SSD Drives whose type is "SAS SSD" or "SAS SSD SED" are displayed.</li> <li>• NVMe SSD Drives whose type is "NVMe SSD" or "NVMe SSD SED" are displayed.</li> </ul>

Parameter Name	Description
Hot Spare	<p>Select whether to display the "Hot Spare" column in the list. The "Hot Spare" column is not displayed by default. This item is also used to select the hot spare registration status of the drive that is to be displayed in the list. Drives whose registration state is the same as the hot spare registration status are displayed in the list. If no hot spare registration statuses of drives are selected, the list will not be filtered by registration status. No hot spare registration statuses of drives are selected by default.</p> <ul style="list-style-type: none"> <li>• Yes Drives that are registered as hot spares are displayed.</li> <li>• No Drives that are used for user data or unused are displayed.</li> </ul>
Allocated Resource	<p>Select whether to display the "Allocated Resource" column in the list. The "Allocated Resource" column is displayed by default. This item is also used to specify the resource name configured by the drive that is to be displayed in the list. Information of the drive configuring the resource that partially matches the input resource name is displayed. If no values are specified, the list will not be filtered by the resource name. This item is blank by default.</p> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• Regular expressions such as "*" can be used. To specify a resource name that includes a character used for regular expressions such as "*", input an escape character (\) before the character.</li> </ul> </div>

## Drive Detail View

- ["■ Overview" \(page 138\)](#)
- ["■ Screenshots" \(page 138\)](#)
- ["■ Actions" \(page 139\)](#)
- ["■ Display Items" \(page 139\)](#)

### ■ Overview

The detailed information of the drive is displayed.

### ■ Screenshots

[Drives](#) / CE#0 Slot#00

Name	CE#0 Slot#00	Hot Spare	No
Status	<span style="color: green;">✔</span> Normal	Dedicated Hot Spare	No
Detailed Status	Available	Allocated Resource	<a href="#">TPP#1</a>
Health	N/A	Drive ID	0000
Rebuild/Copyback Progress	N/A	Enclosure	<a href="#">CE#0</a>
Capacity	914.30 TB	Slot	0
Speed	7200 rpm	Vendor ID	FUJITSU
Type	Nearline	Product ID	MAU3036FC
Advanced Format	No	Serial Number	AUQ4P4A0
		WWN	300000e0de000001
		Firmware Revision	5803

[Back](#)

## ■ Actions

Icon/Button	Description
Back	Displays the previous screen. <div style="border: 2px solid orange; padding: 10px;"><b>Caution</b><ul style="list-style-type: none"><li>• To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li></ul></div>
Drives/ xxx	Click "Drives" to display its List View. "xxx" indicates the name of the currently displayed drive.

## ■ Display Items

### Basic Information

Parameter Name	Description
Name	The drive name is displayed.
Status	The drive status is displayed. <ul style="list-style-type: none"><li>• Normal Normal state.</li><li>• Unused Unused state.</li><li>• Maintenance Maintenance state.</li><li>• Warning Preventive maintenance is required.</li><li>• Error An error occurred and maintenance is required.</li></ul>

8. Hardware  
Drive Detail View

Parameter Name	Description
Detailed Status	<p>The detailed drive status is displayed.</p> <ul style="list-style-type: none"> <li>• Available The drive is in the normal state. The drive is being used such as for RAID groups.</li> <li>• Spare The drive is registered as a hot spare.</li> <li>• Present The drive is in the unused state.</li> <li>• Readying The drive is starting up.</li> <li>• Rebuild-Copyback A rebuild/copyback is being performed in the drive.</li> <li>• Redundant Copy A redundant copy is being performed in the drive.</li> <li>• Not Supported The drive is not supported.</li> <li>• Not Exist The drive cannot be recognized.</li> <li>• Failed Usable An error involving RAID group failure has occurred in the drive.</li> <li>• Broken An error has occurred in the drive.</li> </ul>
Health	<p>The drive lifetime (or remaining life) is displayed. As the lifetime of the drive is reduced, the value is decreased. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- When "Type" is other than "SAS SSD", "SAS SSD SED", "NVMe SSD", or "NVMe SSD SED".</li> <li>- When data is being deleted or the drive lifetime cannot be obtained.</li> </ul> </li> </ul> </div>
Rebuild/ Copyback Progress	<p>The progress rate of a rebuild or a copyback is displayed. The unit is "%".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If the Rebuild-Copyback is not being performed, "N/A" is displayed.</li> </ul> </div>
Capacity	<p>The capacity of the drive is displayed. The capacity is displayed up to the second decimal place with the appropriate "GB" or "TB" unit. It may differ from the product's actual capacity.</p>
Speed	<p>The drive speed is displayed. The unit is "rpm".</p> <div style="border: 1px solid cyan; padding: 5px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is "SAS SSD", "SAS SSD SED", "NVMe SSD", or "NVMe SSD SED".</li> </ul> </div>

8. Hardware  
Drive Detail View

Parameter Name	Description
Type	<p>The drive type is displayed.</p> <ul style="list-style-type: none"> <li>• Online Online HDD</li> <li>• Nearline Nearline HDD</li> <li>• SSD SAS SSD</li> <li>• NVMe SSD NVMe SSD</li> <li>• Online SED Online HDD SED</li> <li>• Nearline SED Nearline HDD SED</li> <li>• SSD SED SAS SSD SED</li> <li>• NVMe SSD SED NVMe SSD SED</li> </ul>
Advanced Format	<p>Whether the drive is Advanced Format compliant is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The drive is Advanced Format compliant.</li> <li>• No The drive is not Advanced Format compliant.</li> </ul> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when "Type" is "SAS SSD", "SAS SSD SED", "NVMe SSD", or "NVMe SSD SED".</li> </ul> </div>
Hot Spare	<p>Whether the drive is registered as a hot spare is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The drive is registered as a hot spare.</li> <li>• No The drive is used for user data or an unused drive.</li> </ul>
Dedicated Hot Spare	<p>Whether the drive is registered as a Dedicated Hot Spare is displayed.</p> <ul style="list-style-type: none"> <li>• Yes The drive is registered as a Dedicated Hot Spare.</li> <li>• No drive that is registered as a Global Hot Spare, a drive that is used for user data, or a drive that is unused.</li> </ul> <div style="border: 1px solid cyan; padding: 5px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• If "Hot Spare" is "No", "No" is displayed.</li> </ul> </div>

## 8. Hardware

### Drive Detail View

Parameter Name	Description
Allocated Resource	<p>The name of the Thin Provisioning Pool, Flexible Tier Pool, or RAID group that is configured by the drive is displayed.</p> <p>For Dedicated Hot Spares, the RAID group name where the Dedicated Hot Spare is registered is displayed.</p> <p>For Thin Provisioning Pools, click a pool name to display its Detail View.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed for the following cases. <ul style="list-style-type: none"> <li>- Unused drives</li> <li>- For tenant users, drives that do not configure the resources that belong to the current user's tenant</li> </ul> </li> </ul> </div>
Drive ID	The drive identifier that is used for RESTful API is displayed.
Enclosure	<p>The enclosure name where the drive is installed is displayed.</p> <p>Click an enclosure name to display its Detail View.</p>
Slot	<p>The Slot Number where the drive is installed is displayed.</p> <p>This value is displayed as a decimal number.</p>
Vendor ID	The drive manufacturer name is displayed.
Product ID	The drive product name is displayed.
Serial Number	The serial number of the drive is displayed.
WWN	<p>The drive WWN is displayed.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is "NVMe SSD" or "NVMe SSD SED".</li> </ul> </div>
Internal ID	<p>The internal ID of the drive is displayed.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• This item is not displayed when "Type" is other than "NVMe SSD" or "NVMe SSD SED".</li> </ul> </div>
Firmware Revision	The drive firmware version is displayed.

# 9. Job

## ■ Overview

The job information and job deletion method are displayed.

- "Job List View" (page 143)
- "Job Detail View" (page 146)
- "Delete Job Dialog" (page 148)

## Job List View

- "■ Overview" (page 143)
- "■ Screenshots" (page 143)
- "■ Actions" (page 143)
- "■ Setting Items" (page 144)
- "■ Display Items" (page 144)
- "■ Filters" (page 145)

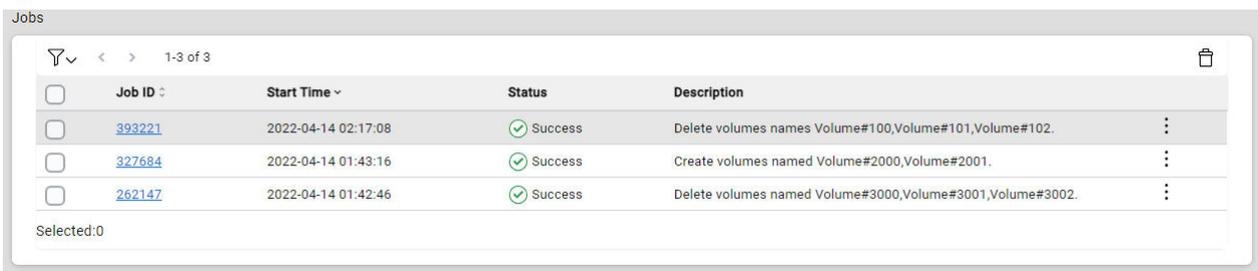
## ■ Overview

The job information for the currently logged in users is displayed in list form.

### Caution

- The job information is stored for 30 minutes after the job status changes to "Success", "Error", "Partial Error", or "Canceled" and after that, it is automatically deleted.

## ■ Screenshots



## ■ Actions

Icon/Button	Description
	Opens/closes the filter menu. Click this icon to open the filter menu to filter the display items and display resources of the list. Click this icon again to close the filter menu. The filter menu is closed by default.
< > X - Y of Z	Changes the List page. Click the left arrow icon to return to the previous page. Click the right arrow icon to proceed to the next page. The location of the currently displayed resource and the total number of resources are also displayed. X: The start point of the currently displayed list element. Y: The end point of the currently displayed list element. Z: The total number of elements.

## 9. Job Job List View

Icon/Button	Description
	Deletes a job. Click this icon to open the dialog to delete the selected jobs.
	Opens/closes the Action menu of the job. Click this icon to open the action menu for the various operations that can be performed for the job. <ul style="list-style-type: none"> <li>• Delete Deletes a job.</li> </ul>

### ■ Setting Items

Name	Description
<input type="checkbox"/>	Select the deletion target job.

### ■ Display Items

Parameter Name	Description
Job ID	The identifier of the job is displayed. Click a Job ID to display its Detail View.
Start Time	The time when the job starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)
Completion Time	The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)

**Information**

- "N/A" is displayed when the job status is "Running" or "Queued".

Parameter Name	Description
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Description	The overview of the job is displayed.
Selected: x	The number of selected jobs is displayed.

## ■ Filters

Parameter Name	Description
Default Settings	Reverts the filter menu setting to the default.
Items per page	<p>Select the number of resources to display per page in the list. The default number is 20.</p> <ul style="list-style-type: none"> <li>• 20 The number of resources displayed per page is 20.</li> <li>• 50 The number of resources displayed per page is 50.</li> <li>• 100 The number of resources displayed per page is 100.</li> </ul>
Start Time	Select whether to display the "Start Time" column in the list. The "Start Time" column is displayed by default.
Completion Time	Select whether to display the "Completion Time" column in the list. The "Completion Time" column is not displayed by default.
Status	<p>Select whether to display the "Status" column in the list. The "Status" column is displayed by default.</p> <p>This item is also used to select the status of the job that is to be displayed in the list. The jobs that are in the selected status are displayed in the list.</p> <p>If no job statuses are selected, the list will not be filtered by job status. No job statuses are selected by default.</p> <ul style="list-style-type: none"> <li>• Queued / Running Jobs that are in the "Queued" or "Running" state are displayed.</li> <li>• Success / Canceled Jobs that are in the "Success" or "Canceled" state are displayed.</li> <li>• Error / Partial Error Jobs that are in the "Error" or "Partial Error" state are displayed.</li> </ul>
Description	Select whether to display the "Description" column in the list. The "Description" column is displayed by default.

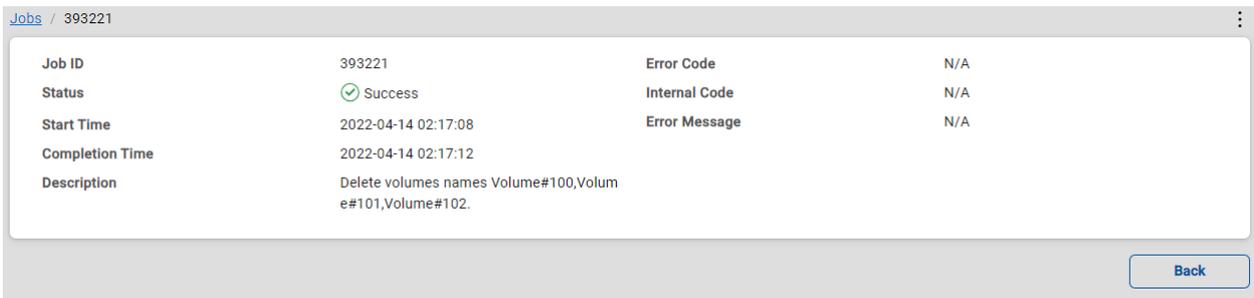
# Job Detail View

- "■ Overview" (page 146)
- "■ Screenshots" (page 146)
- "■ Actions" (page 146)
- "■ Display Items" (page 146)

## ■ Overview

The detailed job information is displayed.

## ■ Screenshots



## ■ Actions

Icon/Button	Description
	Opens/closes the Action menu of the job. Click this icon to open the action menu for the various operations that can be performed for the job. <ul style="list-style-type: none"><li>• Delete Deletes a job.</li></ul>
Back	Displays the previous screen. <div style="border: 2px solid orange; padding: 5px;"><b>Caution</b><ul style="list-style-type: none"><li>• To return to the previous screen, use this button instead of the [Back] button on the browser. Using the [Back] button on the browser may cause unexpected behavior.</li></ul></div>
Jobs / xxx	Click "Jobs" to display Job List View. "xxx" indicates the job ID of the currently displayed job.

## ■ Display Items

### Basic Information

Parameter Name	Description
Job ID	The identifier of the job is displayed.

9. Job  
Job Detail View

Parameter Name	Description
Status	<p>The job status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The job succeeded and the process is completed.</li> <li>• Canceled The job is canceled and the process is completed.</li> <li>• Running The job is being executed.</li> <li>• Queued The job is waiting for execution.</li> <li>• Error The job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> <li>• Partial Error A part of the job failed and the process is completed. The detailed error information for the relevant job can be checked in Error Details.</li> </ul>
Start Time	<p>The time when the job starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p>
Completion Time	<p>The time when the job completes is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the job status is "Running" or "Queued".</li> </ul> </div>
Description	<p>The overview of the job is displayed.</p>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p> <div style="border: 1px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• "N/A" is displayed when the status is other than "Error".</li> </ul> </div>

Parameter Name	Description
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• "N/A" is displayed when the status is other than "Error".</li><li>• This information is for technical support.</li></ul></div>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• "N/A" is displayed when the status is other than "Error".</li><li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li></ul></div>

### Operation Result Information

Parameter Name	Description
Operation	<p>The detailed information of each operation for the job is displayed. The operation is displayed in the command line format. Refer to "CLI User's Guide" for details.</p>
Result	<p>The execution result of each operation for the job is displayed.</p> <ul style="list-style-type: none"><li>• Succeeded Succeeded.</li><li>• Failed Failed.</li><li>• Unexecuted Not executed.</li><li>• Executed Already executed.</li></ul>

## Delete Job Dialog

- ["■ Overview" \(page 148\)](#)
- ["■ Summary Dialog" \(page 149\)](#)
- ["■ Result Dialog" \(page 149\)](#)

### ■ Overview

This function deletes the job information.

#### Information

- Among the jobs that belong to the currently logged in user account, the job information whose status is "Success", "Error", "Partial Error", or "Canceled" can be deleted.

## ■ Summary Dialog

### Actions

Icon/Button	Description
Delete	Starts the process to delete jobs and then displays the execution result confirmation screen.
Cancel	Displays the previous screen.

### Display Items

Parameter Name	Description
Job ID	The identifier of the job is displayed.
Start Time	The time when the job starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)
Description	The overview of the job is displayed.

## ■ Result Dialog

### Actions

Icon/Button	Description
Close	Closes the execution result confirmation screen.

### Display Items

Parameter Name	Description
Start Time	The time when the process starts is displayed. The time is displayed in the following format. YYYY-MM-DD hh:mm:ss YYYY: Year (AD) MM: Month (01 - 12) DD: Date (01 - 31) hh: Hour (00 - 23) mm: Minute (00 - 59) ss: Second (00 - 59)

9. Job  
Delete Job Dialog

Parameter Name	Description
Completion Time	<p>The time when the process completes is displayed.</p> <p>The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>
Overall Status	<p>The process status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The process completed successfully.</li> <li>• Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>

• Details

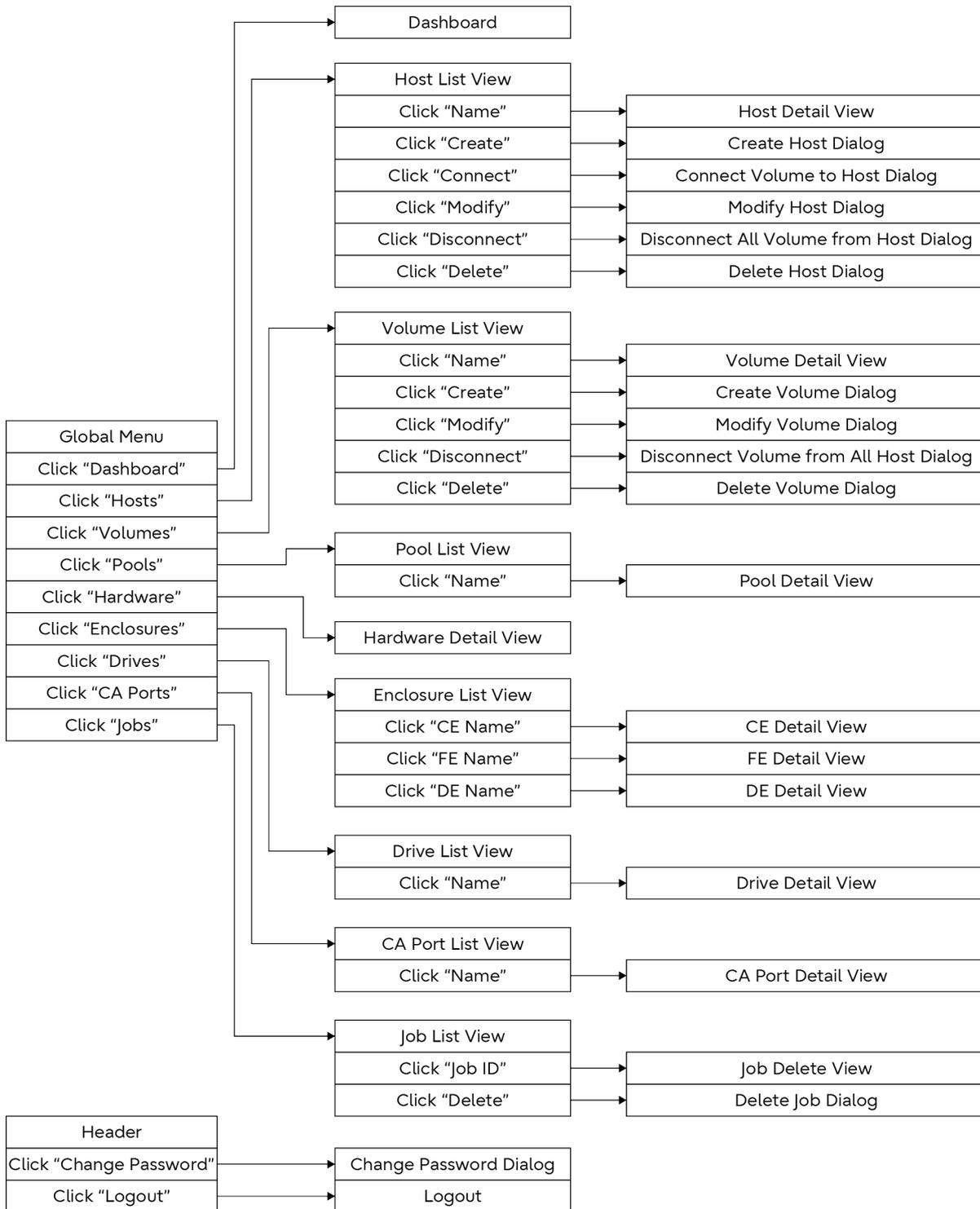
Parameter Name	Description
Job ID	<p>The identifier of the job is displayed.</p> <div style="border: 2px solid cyan; padding: 10px; margin-top: 10px;"> <p><b>Information</b></p> <ul style="list-style-type: none"> <li>• N/A" is displayed because the job is deleted.</li> </ul> </div>
Description	<p>The overview of the job is displayed.</p>
Status	<p>The job deletion process status is displayed.</p> <ul style="list-style-type: none"> <li>• Success The process completed successfully.</li> <li>• Error The process terminated with an error. Check the detailed information from Error Details.</li> </ul>
Completion Time	<p>The completion time of the job deletion process is displayed.</p> <p>The time is displayed in the following format.</p> <p>YYYY-MM-DD hh:mm:ss</p> <p>YYYY: Year (AD)</p> <p>MM: Month (01 - 12)</p> <p>DD: Date (01 - 31)</p> <p>hh: Hour (00 - 23)</p> <p>mm: Minute (00 - 59)</p> <p>ss: Second (00 - 59)</p>

• Error Details

Parameter Name	Description
Job ID	<p>The identifier of the job is displayed. Only the jobs created by this process and whose status is "Error" are displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• N/A" is displayed because the job is deleted.</li></ul></div>
Error Message	<p>An error message is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• An error message is displayed in English even if "Japanese" is selected as the display language.</li></ul></div>
Error Code	<p>The error code is displayed. If the cause and required action of the error cannot be recognized from the error message, refer to "Appendix A Error Messages/Error Codes" in "CLI User's Guide" for the cause and required action of each error code.</p>
Internal Code	<p>The internal ID of the error detection location is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• This information is for technical support.</li></ul></div>
Operation Results	<p>The execution result of each operation corresponding to the job is displayed.</p> <div style="border: 1px solid cyan; padding: 5px;"><p><b>Information</b></p><ul style="list-style-type: none"><li>• N/A" is displayed because the job is deleted.</li></ul></div>

# A. How to Access each Screen

The following shows the operation procedure to display List View, Detail View, or Action Dialog for each function from Global Menu and Header.



# B. Policy

The following describes the required user policy to display the List View, Detail View, and Action Dialog for each function.

Users whose default role is indicated by the check mark or users whose role is assigned with at least one policy indicated by the check mark can use the relevant Views/Dialogs. Refer to "Web GUI User's Guide" for details about policies and roles.

Name	Default role					Policy																
	Monitor	Admin	Storage Admin	Account Admin	Security Admin	Maintainer	Status Display	RAID Group Management	Volume - Create / Modify	Volume - Delete / Format	Host Interface Management	Advanced Copy Management	Copy Session Management	Storage Migration Management	Storage Management	User Management	Authentication / Role	Security Setting	Audit Management	Maintenance Information	Maintenance Operation	
Dashboard	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Host List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Host Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Create Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Delete Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Modify Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Connect Volume to Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Disconnect All Volume from Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Volume List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Volume Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Create Volume Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Delete Volume Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Modify Volume Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Disconnect Volume from All Host Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Pool List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Pool Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Hardware Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Enclosure List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
CE Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
FE Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
DE Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Drive List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Drive Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
CA Port List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
CA Port Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Job List View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Job Detail View	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Delete Job Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
Change Password Dialog	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?

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ETERNUS DX S6 series  
Web GUI User's Guide  
(Easy Administration View)

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