

# ***EASY MAINTENANCE SECTION***

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# 1. HDD EASY REPLACE

## 1.1 How to operate the SVP (PC)

### 1.1.1 How to use Windows

(1) <Notation>

In this manual, “select” has the following meaning, and “(CL)”, “(DC)”, or “(DR)” is added to the word for each meaning.

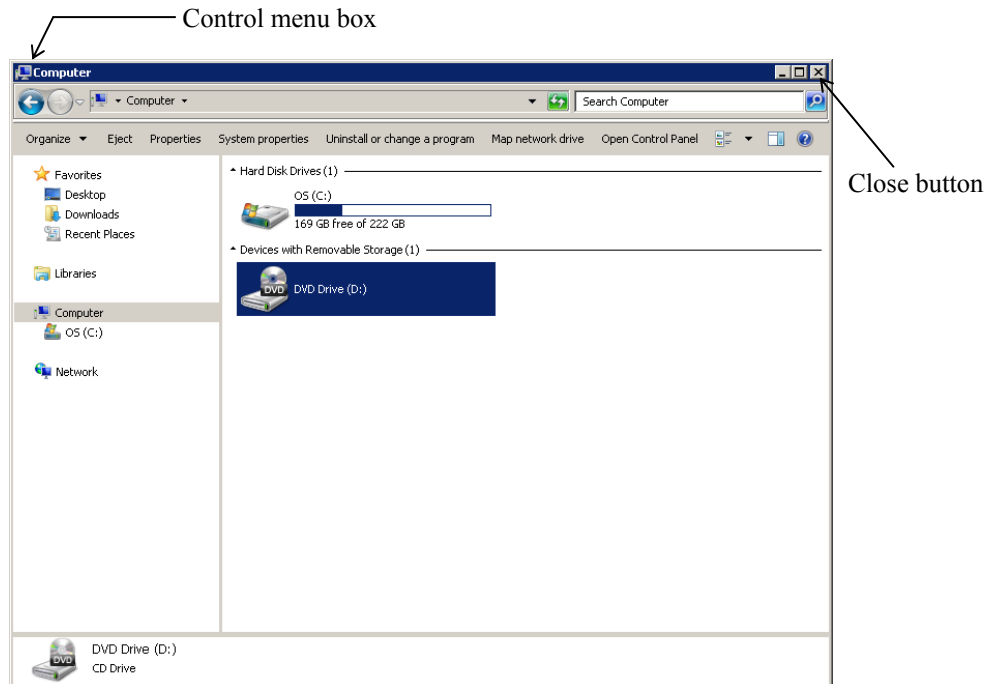
- (CL) Click : Quickly press and release the left side button of mouse.  
(DC) Double-click : Click the left side button of mouse twice in rapid succession.  
(DR) Drag : To hold down the left side button of mouse while you trace the mouse to move the pointer to a desired position. Then release the button.

Example: Select (DC) the [Guidance] icon in the ‘RAID Maintenance Viewer’ window.  
Move the pointer to [Guidance] with the mouse. Then click the left side button of mouse twice in rapid succession.

(2) <Close>

“Close” means to close the application window.

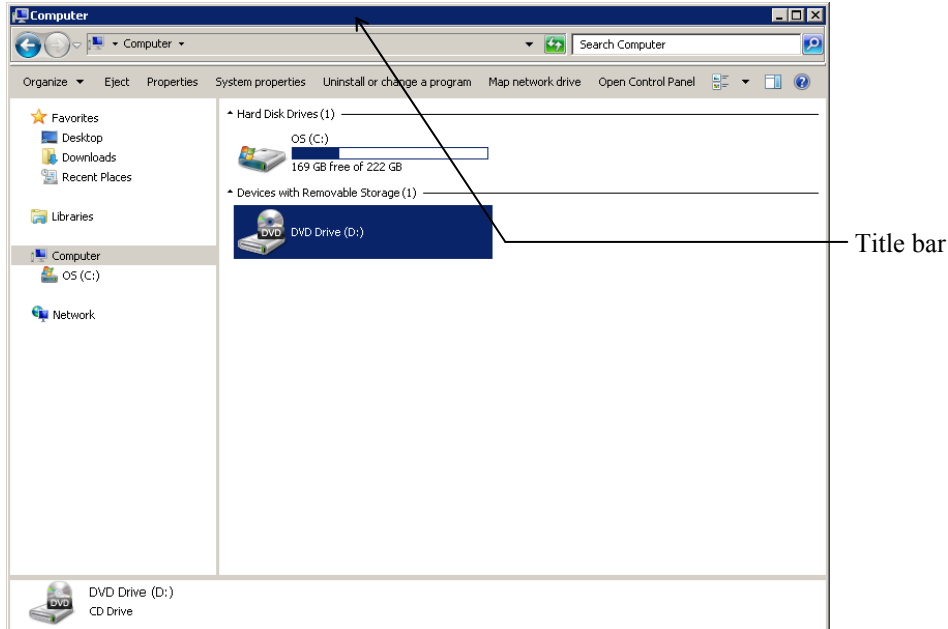
(Double-click the control menu box of the window or click the close button for window.)



## (3) &lt;Moving the Window&gt;

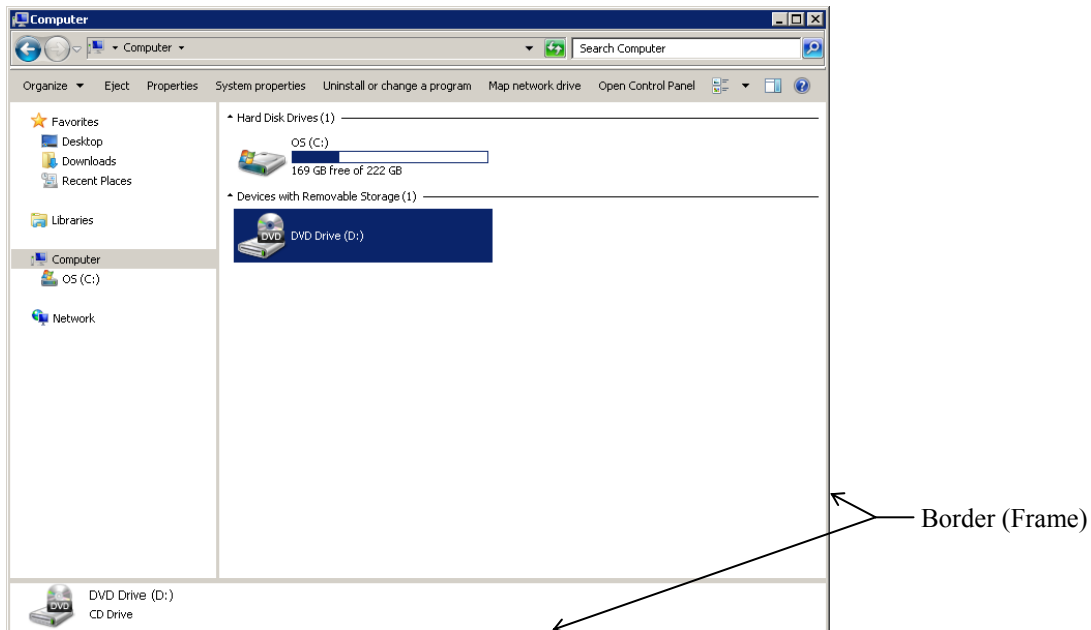
Move the pointer to the title bar with the mouse.

While pressing the button, move the window with the mouse or touchpad (DR) to a desired position and release the button.



## (4) &lt;Changing the window size&gt;

Move the pointer to the window border (frame) (the pointer changes to the double-headed arrow). While pressing the button, move the border (the border changes to the broken line) until the window becomes a desired size, and release the button.



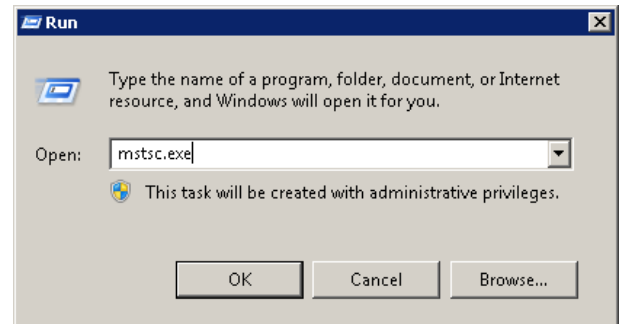
- (5) <Switching the screen (when two or more screens are opened)>  
While pressing the [Alt] key, press [Tab] key (or [Esc] key) until your desired window title is displayed, and release the [Alt] key.

## 1.1.2 Connecting the PC to the SVP

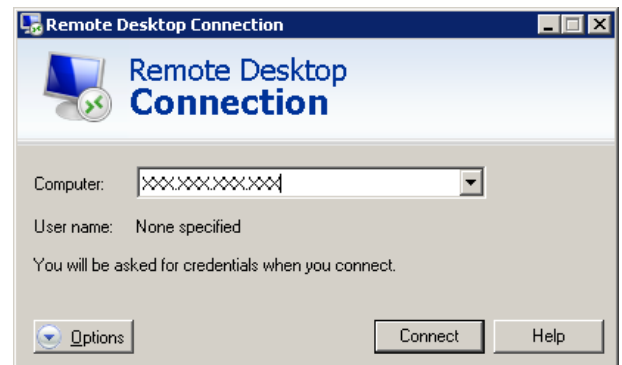
In order to connect to SVP (PC), execute remote desktop connection and perform the following procedures from a Maintenance PC.

### 1.1.2.1 Connection to the SVP

- (1) <Performing remote desktop connection>  
Select (CL) [Run...] from the [Start] menu.  
Enter “mstsc.exe” in the “Open” box, and  
select (CL) the [OK] button.

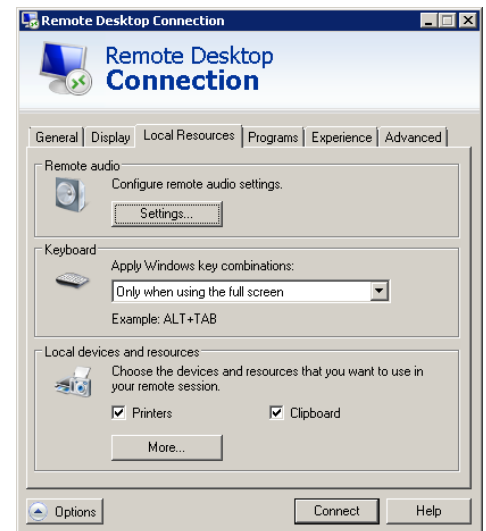


- (2) <Performing the connection>  
Enter IP address or host name of the SVP  
(PC), and select (CL) the [Connect] button.

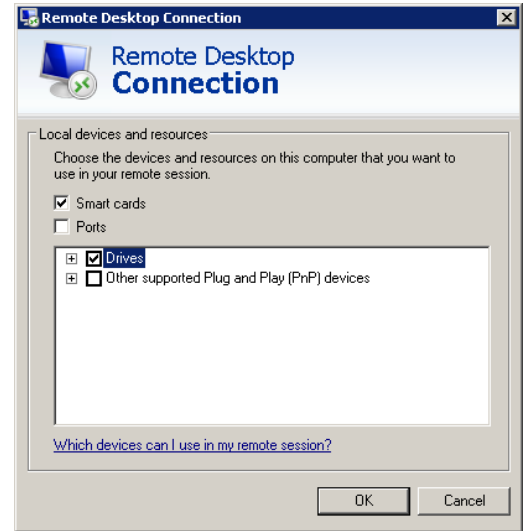


NOTE: Please check that automatic connection of a local disk drive is setup in the case of connection. Confirmation procedure is as follows.

- (a) Select (CL) the [Options] button.
- (b) Select (CL) the “Local Resources” tab in the ‘Remote Desktop Connection’ window.
- (c) Select (CL) the [More...] button in the “Local Resources” tab.

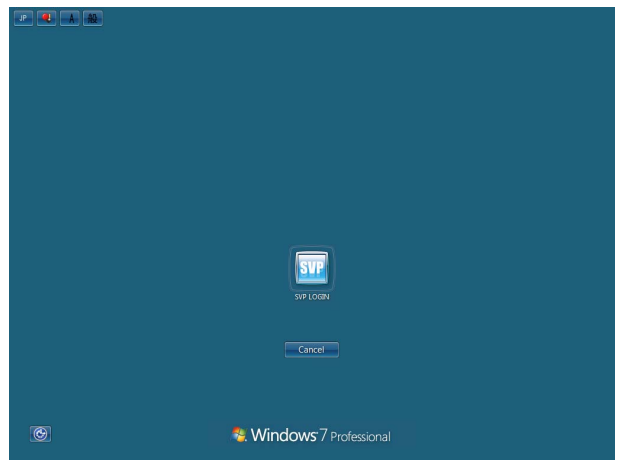


(d) Confirm that the “Drives” is checked.

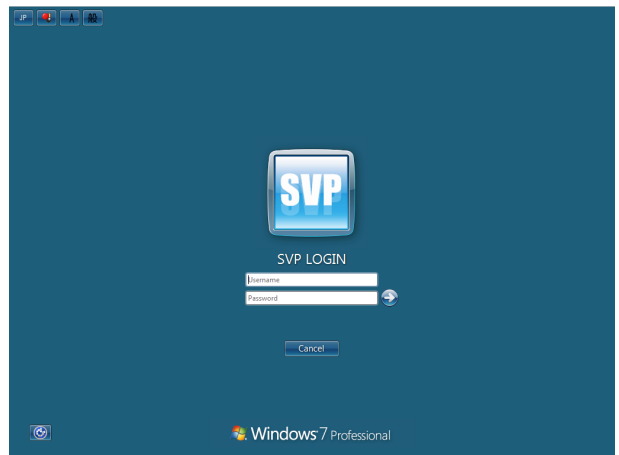


(3) <Performing logon>

Select (CL) SVP icon displayed in the middle of the window, and a window appears to enter user name and password.



Enter user name and password and click the [→] button to logon to the SVP (PC).

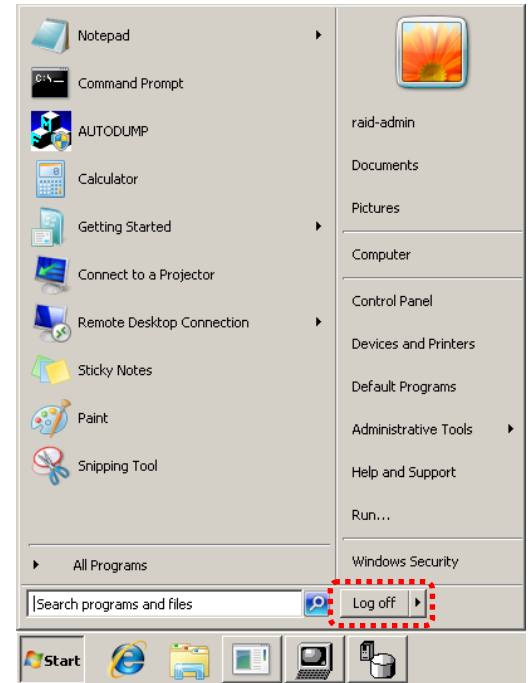


### 1.1.3 Disconnecting the SVP

Disconnect the Maintenance PC from the SVP.

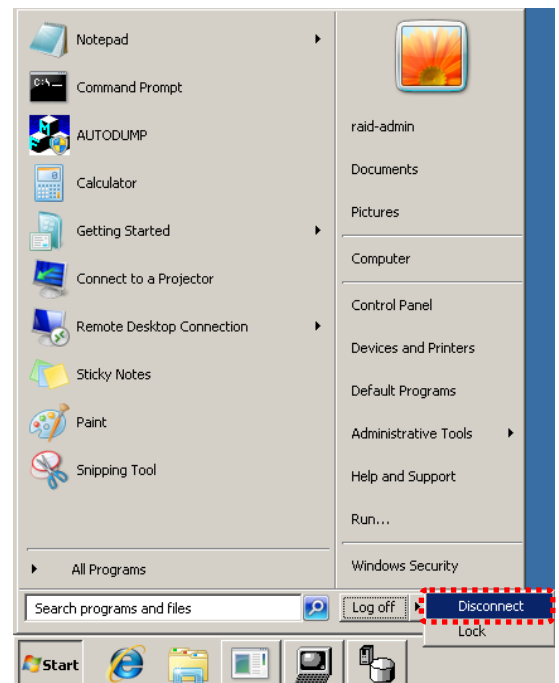
#### (1) Log off the SVP

Select (CL) [Log off] from the [Start] menu. The SVP window in the Maintenance PC is closed.



#### (2) Disconnect the SVP

Select (CL) [Log off]-[Disconnect] from the [Start] menu. The SVP window in the Maintenance PC is closed.



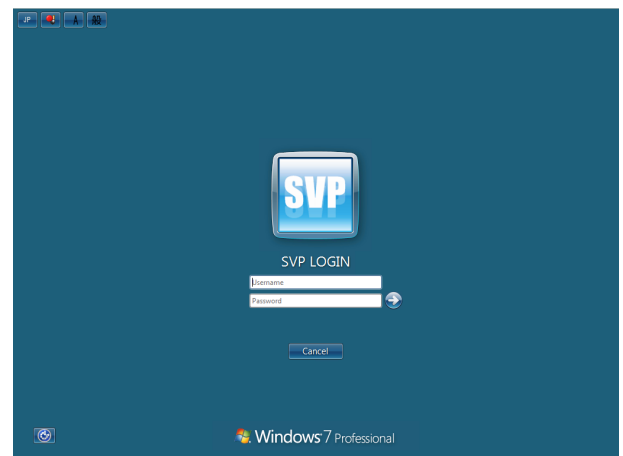
## 1.2 HDD Easy Replacement function

- NOTICE:**
- Before performing HDD easy replacement, complete all the following operations, and confirm that there is no running task and no task waiting to be performed.
    - All Storage Navigator
    - Web Console
    - Raid Manager
    - Tools, such as Configuration File Loader
    - Hitachi Command Suite
  - After confirming the above, wait for 10 minutes or more before starting HDD easy replacement.
  - If you cannot confirm “the completion of HDD replacement” after 25 minutes or more have passed since the HDD replacement, check Shut Down LED (Red) of the HDD.  
For how to confirm “the completion of HDD replacement”, see “1.2.1 (12) Step7: Confirming the completion of replacement”.
  - When Shut Down LED (Red) of HDD is lit, perform HDD easy replacement again or contact the support center to ask for instructions.
  - When Shut Down LED (Red) of HDD is not lit, contact the support center to ask for instructions.

### 1.2.1 Procedure for HDD easy replacement

- (1) <Connection to the SVP>  
Connect to SVP using remote desktop connection from a Maintenance PC.  
For details, see “1.1.2 Connecting the PC to the SVP”.

Enter user name and password of user maintenance personnel account, and select (CL) the [→] button.

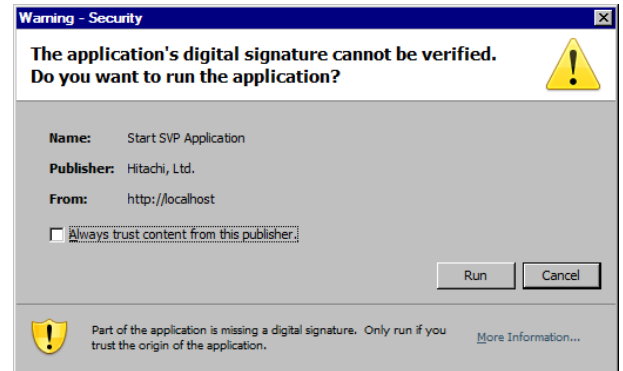


## (2) &lt;Starting a window&gt;

Select (CL) [Maintenance]-[Replace Drives] from menu in the 'Web Console' window.

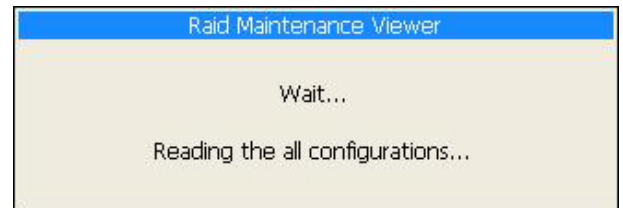


This screen will not be displayed from the next startup when you check the check box of "Always trust content from this publisher." and select (CL) [Run].



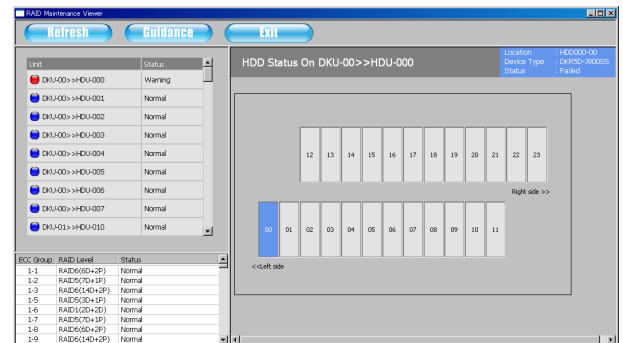
## (3) &lt;Confirming starting condition&gt;

The following message appears. "Wait..."



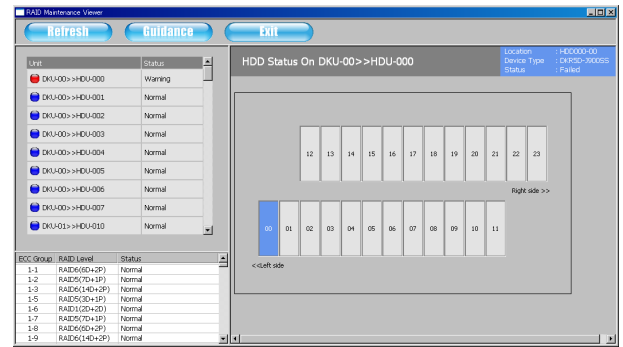
## (4) &lt;Confirming starting window&gt;

'RAID Maintenance Viewer' window appears.

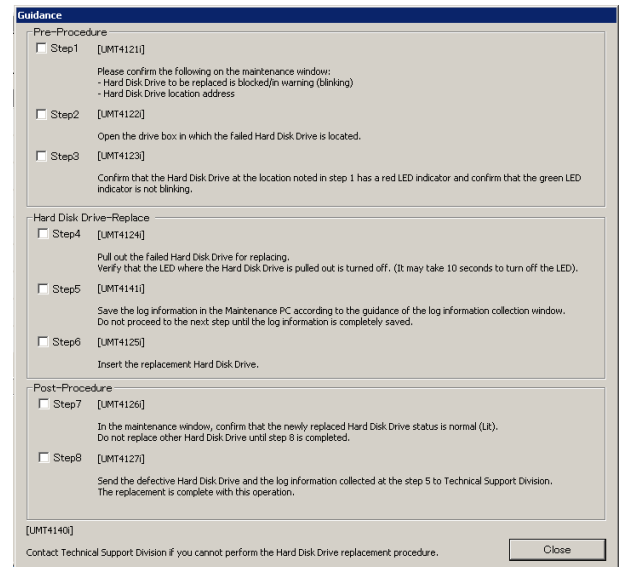


## (5) &lt;Display Guidance&gt;

Select (CL) the [Guidance] button on the 'RAID Maintenance Viewer' window.



Perform HDD easy replacement according to instruction displayed in the 'Guidance' window.



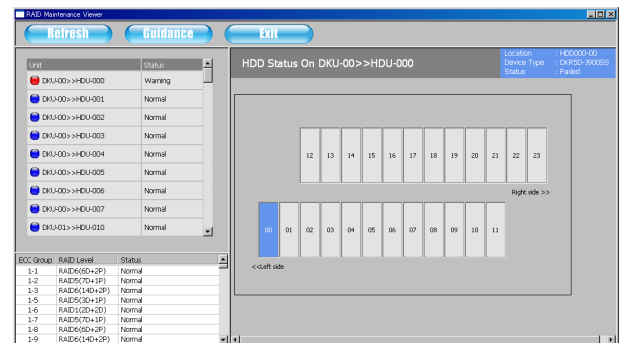
- NOTICE:** (1) Before starting the operation, each worker must wear a wrist strap on his/her wrist to prevent IC and LSI on the package from static electricity. For information on how to wear a wrist strap, see "1.3.1 Attaching the Wrist Strap".
- (2) Do not give an impact or vibration on HDD as it is precision part.

## (6) &lt;Step1: Confirming the HDD to be replaced&gt;

In the 'RAID Maintenance Viewer' window, confirm that the HDD to be displayed is blinking.

In the 'RAID Maintenance Viewer' window, confirm the installation location of the HDD to be replaced.

When the operation is completed, select (CL) [Step1] on the 'Guidance' window and go to "<Step2: Removing Bezel>".



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(7) <Step2: Removing Bezel>

For how to remove the front bezel, see “1.3.2 Bezel Opening-Closing Procedure”.

When the operation is completed, select (CL) [Step2] on the ‘Guidance’ window and go to “<Step3: Confirming LED>”.

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(8) <Step3: Confirming LED>

Confirm that a LED of the HDD to be replaced is lighting up red and the LED is not blinking in green.

For information how to confirm LED, see “1.3.3 Procedure to confirm Shut Down LED”.

If the operation is completed, select (CL) the [Step3] on the ‘Guidance’ window and go to “<Step4: Removing HDD>”.

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(9) <Step4: Removing HDD>

Remove a HDD.

For information how to remove HDD, see “1.3.4 Procedure to Replace HDD”.

Confirm that a LED of the removed HDD is turned off.

For information how to confirm LED, see “1.3.3 Procedure to confirm Shut Down LED”.

NOTE: It may take about 10 seconds for LED to be turned off after removing the HDD.

If the operation is completed, select (CL) the [Step4] on the ‘Guidance’ window and go to “<Step5: Collecting log>”.

## (10) &lt;Step5: Collecting log&gt;

Log information can be collected in accordance with the following procedure.

**NOTICE:** Make sure to perform <Step5: Collecting log> before performing <Step6: Inserting HDD>. The log information to be collected by this step is essential to investigate hardware failures.

Select (CL) the [Ok] button on the 'FFI' window without entering anything.

NOTE: If the 'FFI' window is not displayed, hold down the [Alt] and the [Tab] key until the window is displayed.

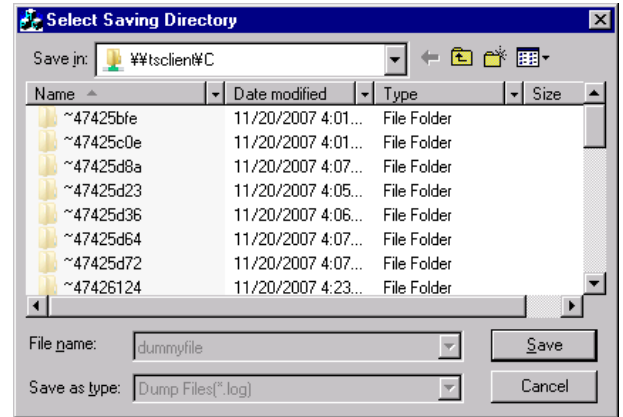
“Insert a removable media for gathering error information and select [OK]. The information will be essential to investigate the problem of the hardware. You can select [Cancel] only when removable media is not available.” is displayed.

Select a Maintenance PC arbitrary drive, and select (CL) [Ok].

When Maintenance PC is selected, the directory selection dialog is displayed. Please select an arbitrary directory if necessary.

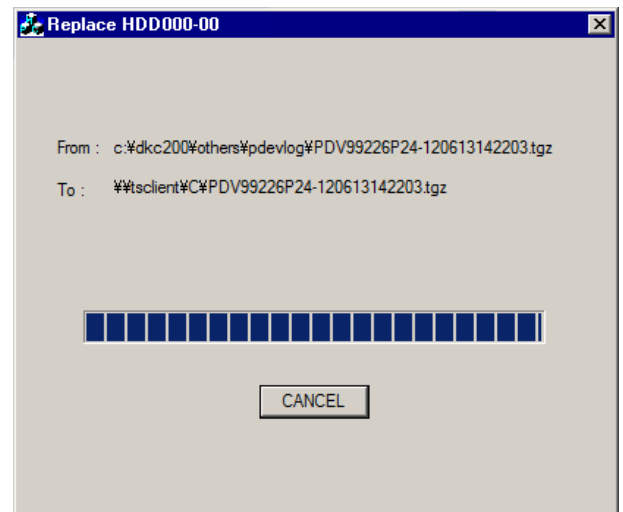
Select (CL) [Save] when saving a file in a specified directory.

It returns to the drive selection screen when [Cancel] is selected (CL).



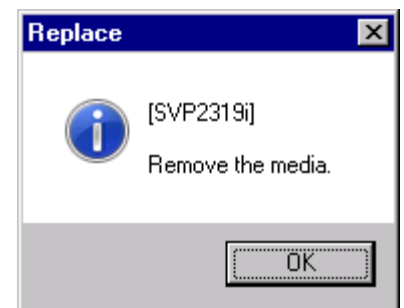
<Copy of the error information>

The error information is copied onto media.



“Remove the media.” is displayed.

Select (CL) [OK].



NOTE: Do not insert HDD until storing the log information is completed. Otherwise the log information may not be normally stored.

If the operation is completed, select (CL) [Step5] on the ‘Guidance’ window and go to the “<Step6: Inserting HDD>”.

## (11) &lt;Step6: Inserting HDD&gt;

Insert new HDD in a place where an HDD has been removed.

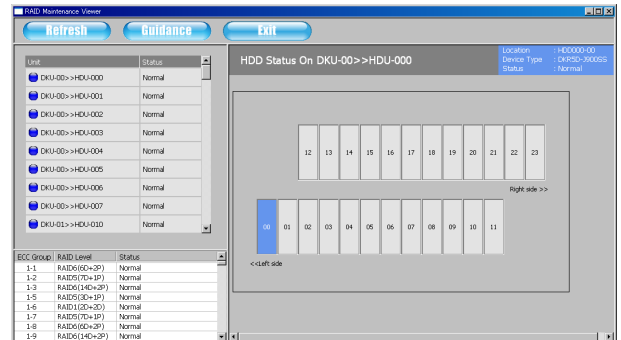
For procedure to insert HDD, see “1.3.4 Procedure to Replace HDD”.

If the operation is completed, select (CL) the [Step6] on the ‘Guidance’ window and go to the “<Step7: Confirming the completion of replacement>”.

## (12) &lt;Step7: Confirming the completion of replacement&gt;

Select (CL) the [Refresh] button on the ‘RAID Maintenance Viewer’ window, and confirm that the replaced HDD is indicated lighting.

If the HDD is not lighting, select (CL) [Refresh] button again after a few minutes, and confirm lighting of the HDD.



NOTE: Do not replace another HDD until “<Step8: Post-processing of replacement>” is completed.

If the operation is completed, select (CL) the [Step7] on the ‘Guidance’ window and go to the “<Step8: Post-processing of replacement>”.

## (13) &lt;Step8: Post-processing of replacement&gt;

For how to install the front bezel, see “1.3.2 Bezel Opening-Closing Procedure”.

Send the removed HDD and the log information stored in the Maintenance PC to the support center.

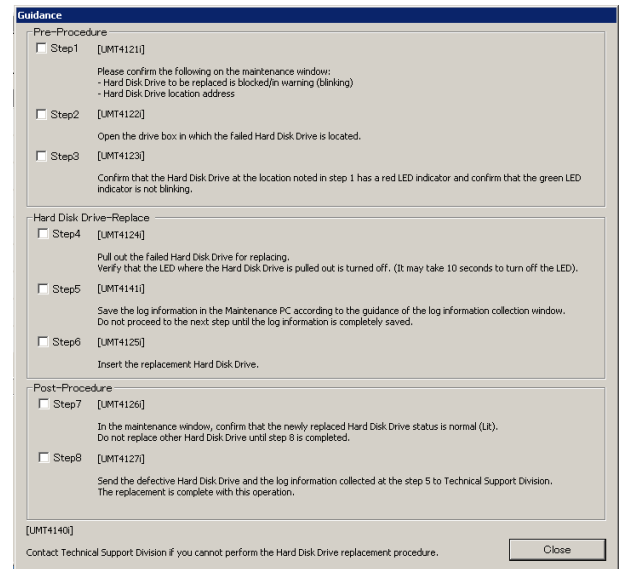
When the operation is completed, select (CL) [Step8] on the ‘Guidance’ window.

## (14) &lt;Confirming the completion&gt;

Confirm that from the [Step1] to the [Step8] are checked on the ‘Guidance’ window. If any of steps are not checked, perform all steps from “<Step1: Confirming the HDD to be replaced>” again.

## (15) &lt;Post-processing&gt;

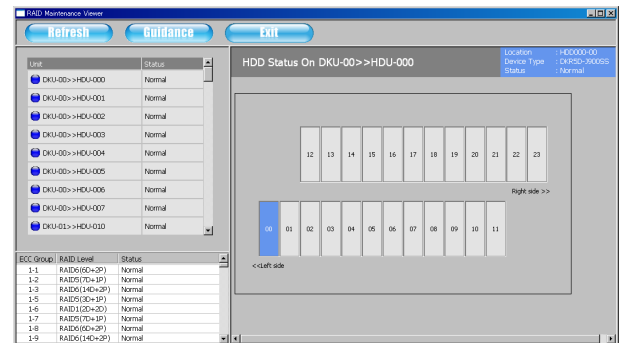
Select (CL) the [Close] button on the 'Guidance' window to close.



Select (CL) the [Exit] button on the 'RAID Maintenance Viewer' window to close the window.

Log off the SVP.

For logoff, see "1.1.3 Disconnecting the SVP".



### 1.2.2 Action when any error or failure occurs

If a warning, a failure, or other error status is displayed on screen, or if an operation in accordance with procedure displayed on the 'Guidance' window cannot be normally done, contact the support center to ask for instructions.

## 1.3 Hardware operations

### 1.3.1 Attaching the Wrist Strap

- In order to protect parts from the electrostatic discharge, every worker must put a wrist strap on his/her wrist before starting installation or maintenance work and start the work after connecting the grounding clip to a metallic portion of the frame. (The wrist strap must be put on when connecting the LAN, RS232C or channel interface cable.)
- When handling a part, hold it in the way that fingertips of the hand putting the wrist strap on touch a metallic portion of the part.  
(The above is necessary in order to discharge the charged static electricity and prevent a charge caused by handling.)
- Be sure to keep the wrist strap close to the storage system.
- Be sure to touch the storage system with the wrist strap put on. If you touch the storage system without putting on the wrist strap, the static electricity charged on your body flows to the storage system in an instant because no resistance exists between your body and the storage system causing a storage system trouble.
- Wear a wrist strap until the work is finished when working with the door of device or the bezel open (for change of channel interface cable connection etc.).

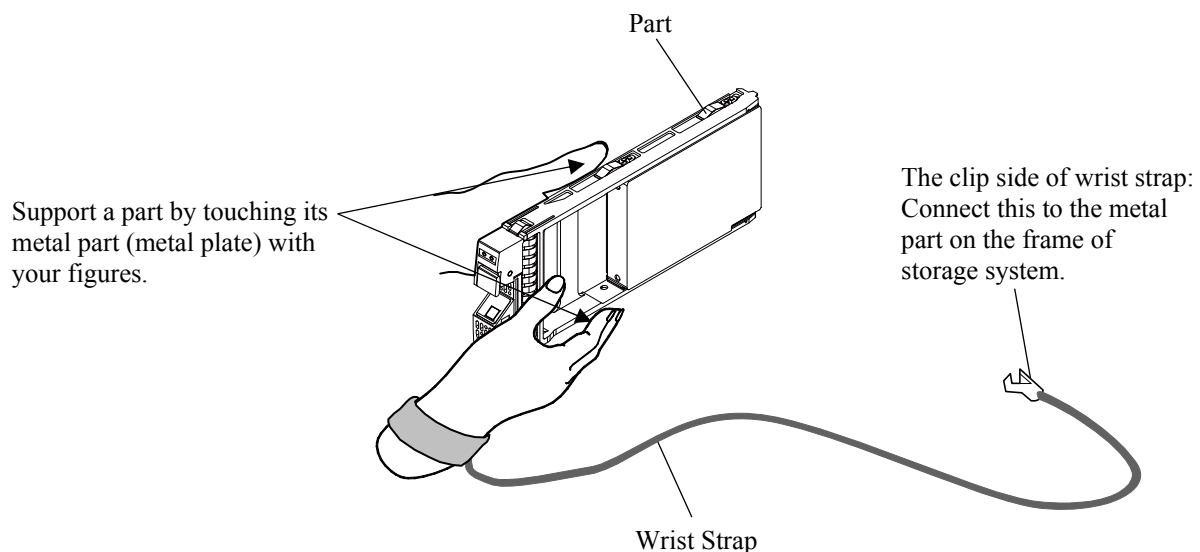
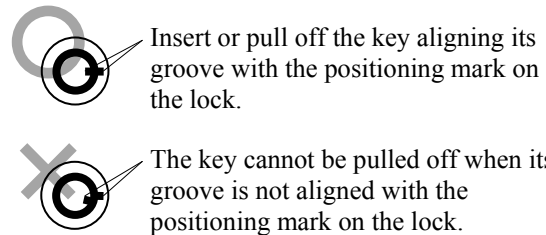
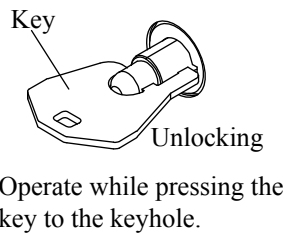


Fig. 1.3.1-1 Attachment of Wrist Strap

### 1.3.2 Bezel Opening-Closing Procedure

- NOTICE:**
- To prevent part failures caused by static electrical charge built up on your own body, be sure to wear a wrist strap connected to the chassis before starting and do not take it off until you finish.
  - When inserting and turning the key, have it inserted completely. If it is turned when it is inserted half way, a damage of it may be caused.
  - When removing the key after locking up the bezel, pull it off aligning its groove with the positioning mark on the lock.
- When the key is pulled off in the state where its groove is not aligned with the positioning mark on the lock, a damage of the lock may be caused.



## 1. DKU Bezel

A key is necessary to attach or remove a bezel.

### Procedure for removal

- Insert the key into the keyhole on the bezel and release the lock of the bezel (①).
- Pull the key toward you while holding the lower right portion of the bezel, and then disengage the right side of the bezel from the ball catch (②).

NOTE: When disengaging the bezel, work with the opening angle between the bezel and the chassis of up to 45 degrees.

Do not force the bezel open too wide. Otherwise, a damage of bezel may be caused.

- Disengage the bezel from the left tabs and then remove it (③).

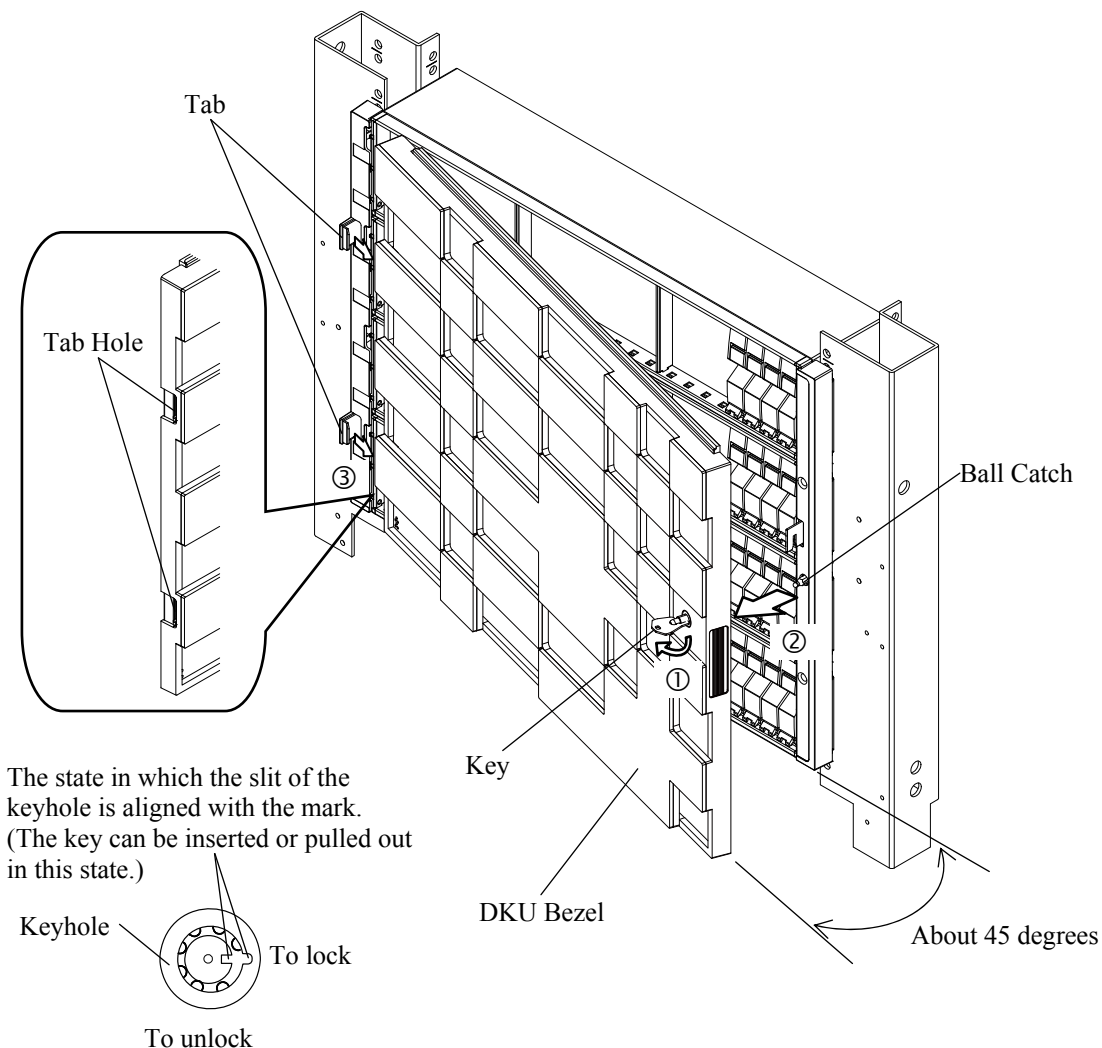


Fig. 1.3.2-1 Removal of DKU Bezel

### Procedure for attachment

- Unlock the bezel with the key, and hold the key and bottom of bezel with your both hands.
- Insert the tabs on the left front side of the chassis into the tab holes on the bezel (①).
- Fix the bezel by pressing the right side of the bezel to engage it with the ball catch on the front side of the chassis (②).
- Lock the bezel with the key (③).

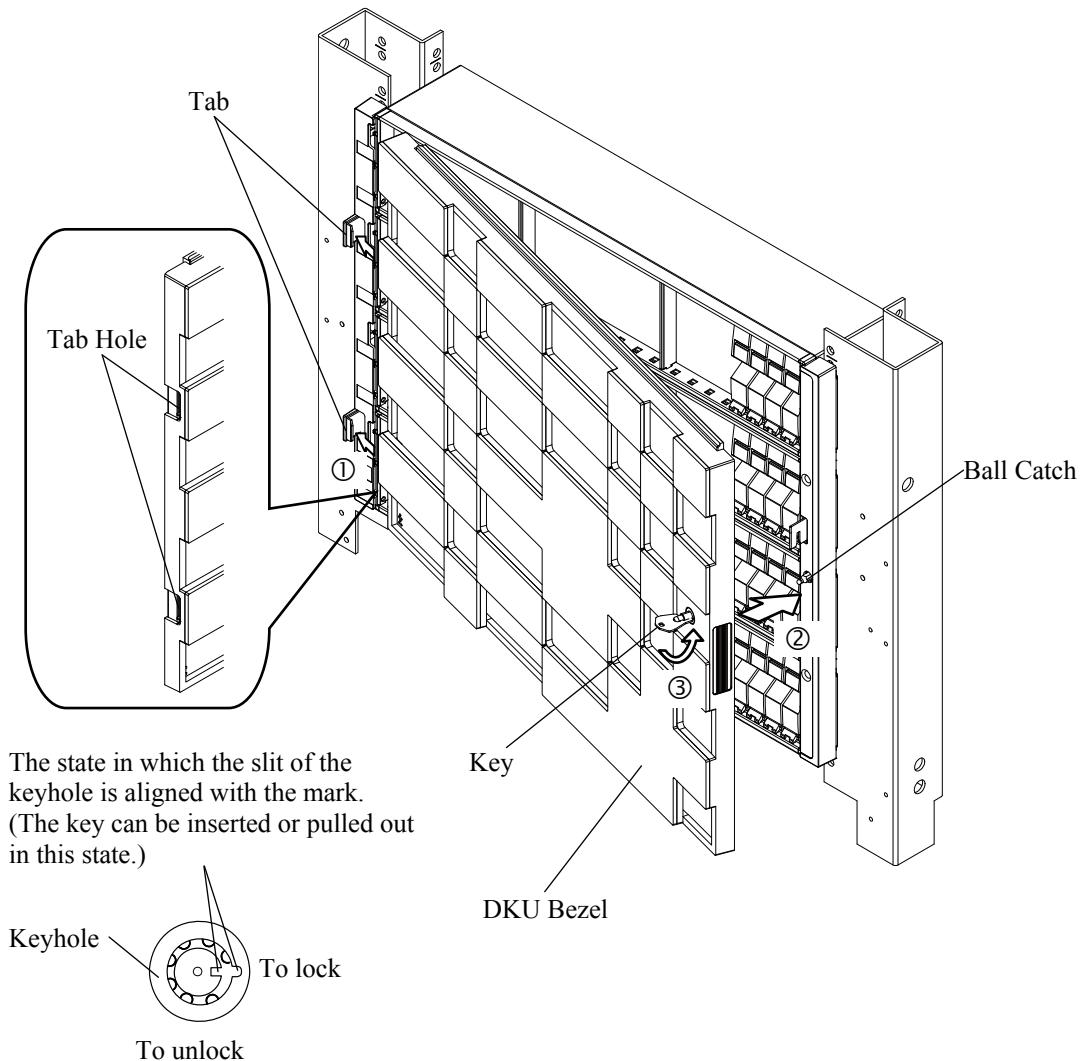
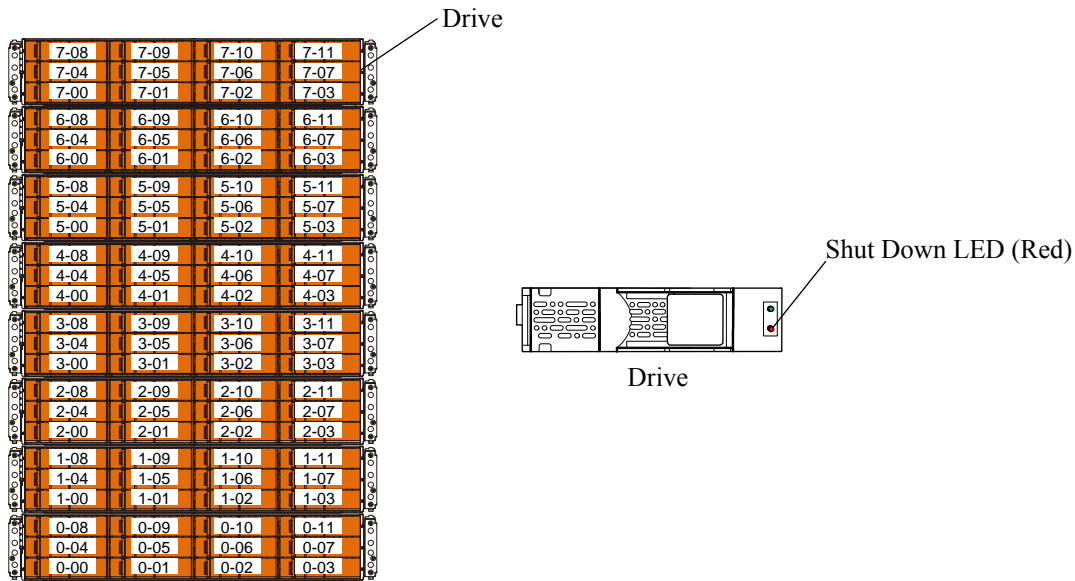


Fig. 1.3.2-2 Attachment of DKU Bezel

### 1.3.3 Procedure to confirm Shut Down LED

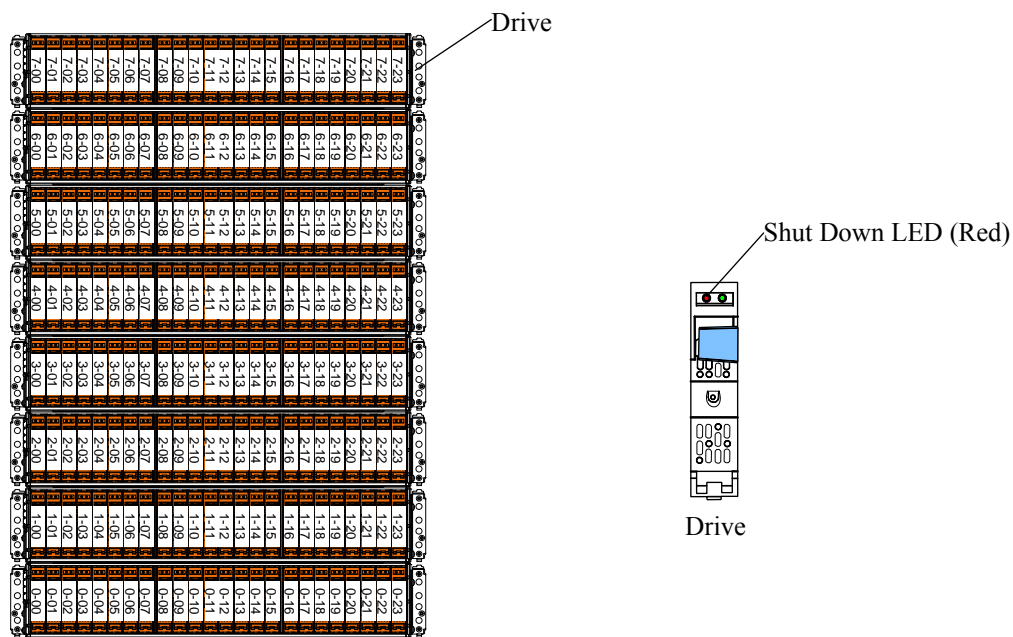
#### 1.3.3.1 Check the Shut Down LED

- a. Check that the Shut Down LED on drive is turned on. Refer to Fig. 1.3.3-1, Fig. 1.3.3-2 or Fig. 1.3.3-3.



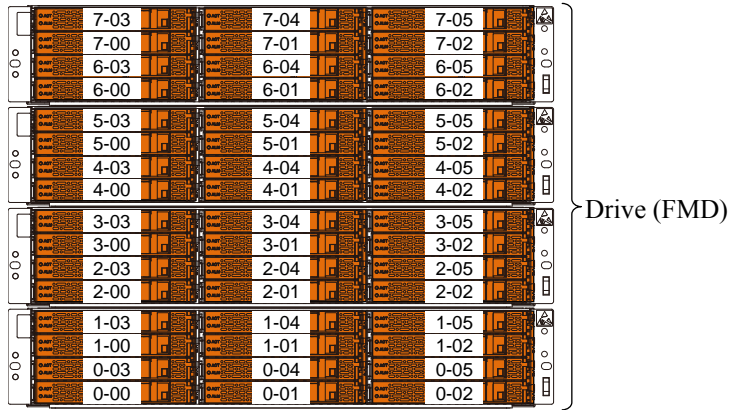
Front View of UBX

Fig. 1.3.3-1 Checking of Shut Down LED (In case of UBX)

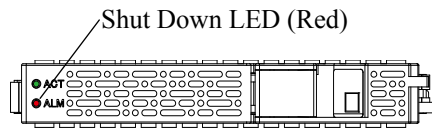


Front View of SFF SBX

Fig. 1.3.3-2 Checking of Shut Down LED (In case of SBX)



Front View of FBX



Front View of Drive (FMD)

Fig. 1.3.3-3 Checking of Shut Down LED (In case of FBX)

### 1.3.4 Procedure to Replace HDD

#### 1.3.4.1 Remove the drive

##### 1.3.4.1.1 In case of UBX

- a. Pull the stopper of the drive handle toward you to have the lock off.
- b. Tilt the handle toward you, and then remove the drive by pulling it out taking care not to apply a shock to it.

NOTE: When handling the drive, hold the rail side because the shield spring is subject to breakage.

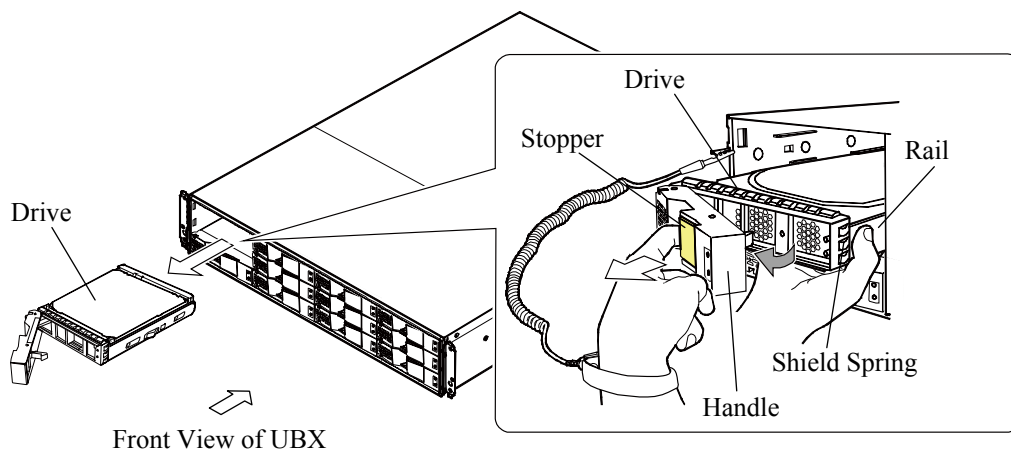


Fig. 1.3.4-1 Removal of Drive (In case of UBX)

### 1.3.4.1.2 In case of SBX

- a. Pull up the stopper of the drive handle toward you to release the lock.
- b. Open the handle toward you, and then pull out and remove the drive to be replaced not to give a shock.

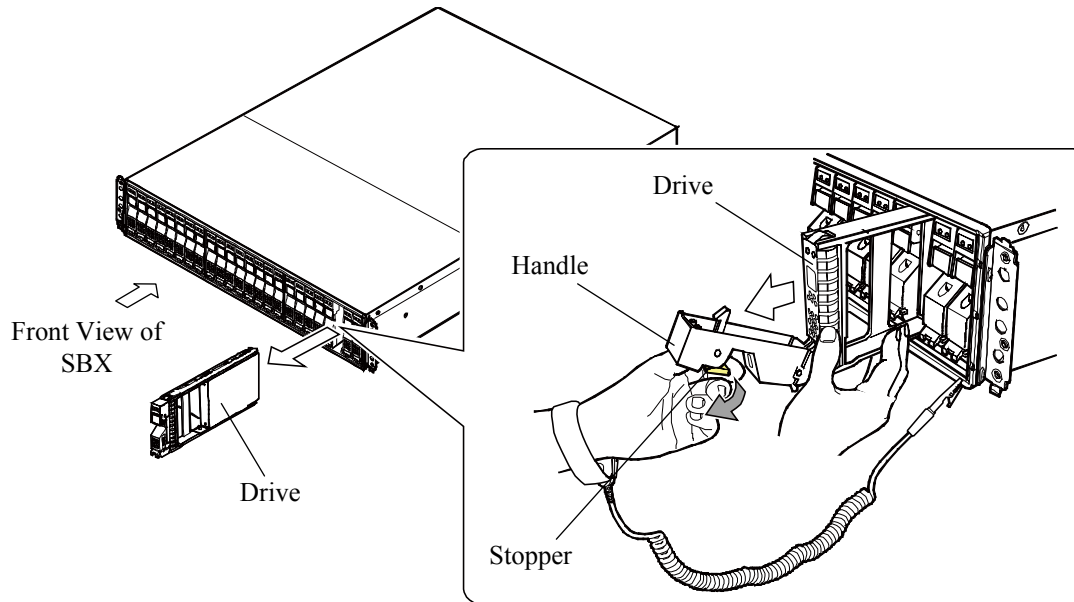


Fig. 1.3.4-2 Removal of Drive (In case of SBX)

## 1.3.4.1.3 In case of FBX

**NOTICE:** When the FMD is removed in replacing procedure, the fans of the DKUPS equipped in the rear of the FBX rotate at the highest speed. When the spare FMD is installed, the fans of the DKUPS rotate at the speed suitable for environmental temperature.

- a. Pull the stopper of the drive handle toward you to have the lock off.
- b. Tilt the handle toward you, and then remove the drive by pulling it out taking care not to apply a shock to it.

**NOTE:** When handling the drive, hold the rail side because the shield spring is subject to breakage.

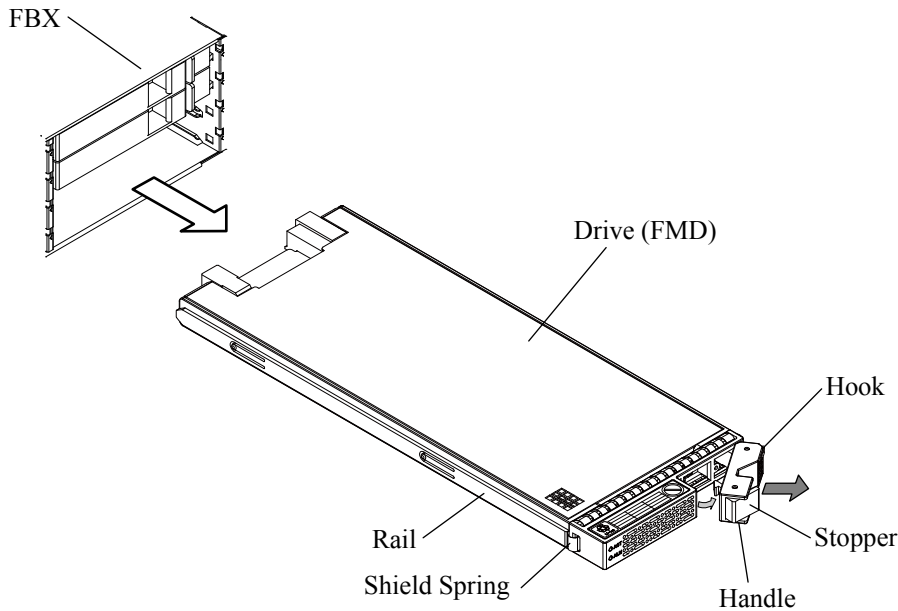
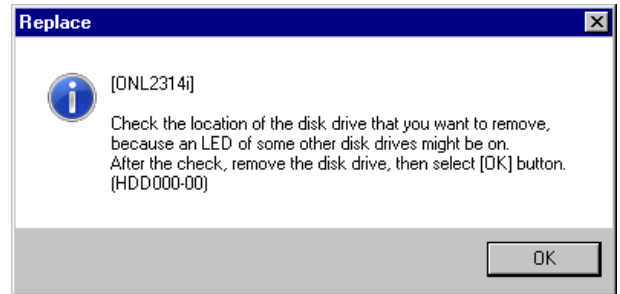


Fig. 1.3.4-3 Removal of Drive (In case of FBX)

### 1.3.4.2 Check and handling of the drive

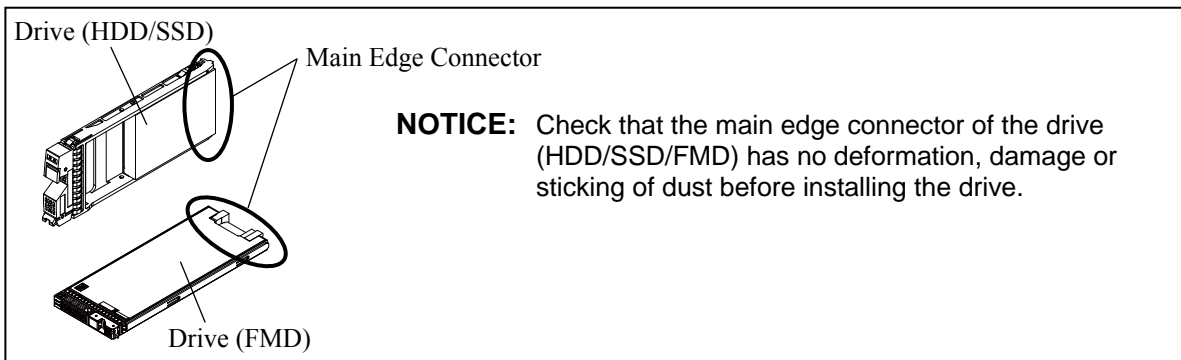
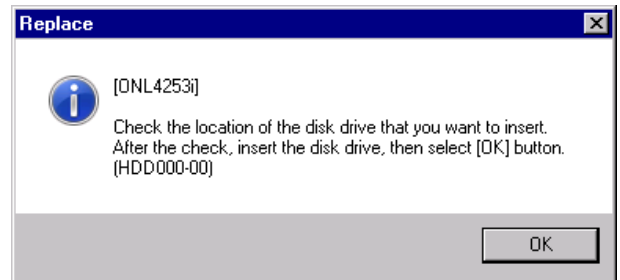
#### (1) <Confirm Removal>

Select (CL) [OK] in response to “Check the location of the disk drive that you want to remove, because an LED of some other disk drives might be on. After the check, remove the disk drive, then select [OK] button. (HDDnnn-nn)” after the unit is removed. (Step 1.3.4)



#### (2) <Confirm Insertion>

“Check the location of the disk drive that you want to insert. After the check, insert the disk drive, then select [OK] button. (HDDnnn-nn)” is displayed.



### 1.3.4.3 Install the drive

**NOTICE:** Back Board, or drive connector or drive handle may be damaged when the drive is forcibly inserted.

If the drive cannot be easily inserted until the claws on the handle reach the DKU, or if the handle binds or stops before it can be locked, then remove the drive and perform inspection:

- a) Check the drive slot in DKU to be free and clear of obstructions.
- b) Check connector on back board for visible defects.
- c) Inspect connector on drive for visible defects.
- d) Inspect drive top and bottom guide for defects. Note special alignment tab on bottom guide on some drive. A damaged tab can bind on the lower slot guides in DKU.
- e) During installation make sure the drive is inserted in alignment with slot guides.
- f) Check upper rear spring on SSD has been removed. (This applies only on SSD)

Reinsert drive after inspections have passed.

### 1.3.4.3.1 In case of UBX

NOTE: When handling the drive, hold the rail side because the shield spring is subject to breakage.

- Open the handle fully and fit the drive in the guide rail and slide it in the direction shown by the arrow not to give a shock.
- Push the drive in until it reaches the position where a hook of the handle can be entered into the square hole on a frame.
- Pull the stopper lightly and close the handle, and then press the stopper to have the lock on. If the handle is closed in the state where the hook of the handle cannot enter into the square hole, the drive cannot be installed correctly because it runs into the frame of the UBX.

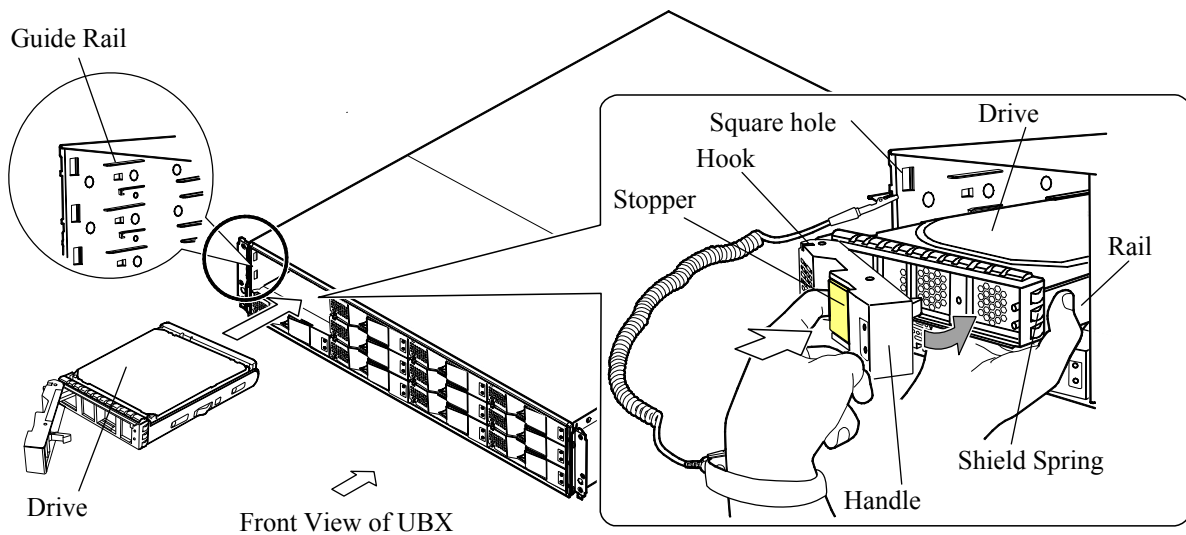


Fig. 1.3.4-4 Installation of Drive (In case of UBX)

### 1.3.4.3.2 In case of SBX

- a. Fit the drive in the guide rail and slide it in the direction shown by the arrow not to give a shock.
- b. Push the drive in until it reaches the position where a hook of the handle can be entered into the square hole at the lower part of a frame.
- c. Raise the stopper, which has been tilted toward you, and then press the stopper to have the lock on.

If the handle is raised in the state where the hook of the handle cannot enter into each hole, the drive cannot be installed correctly because it runs into the frame of the SBX.

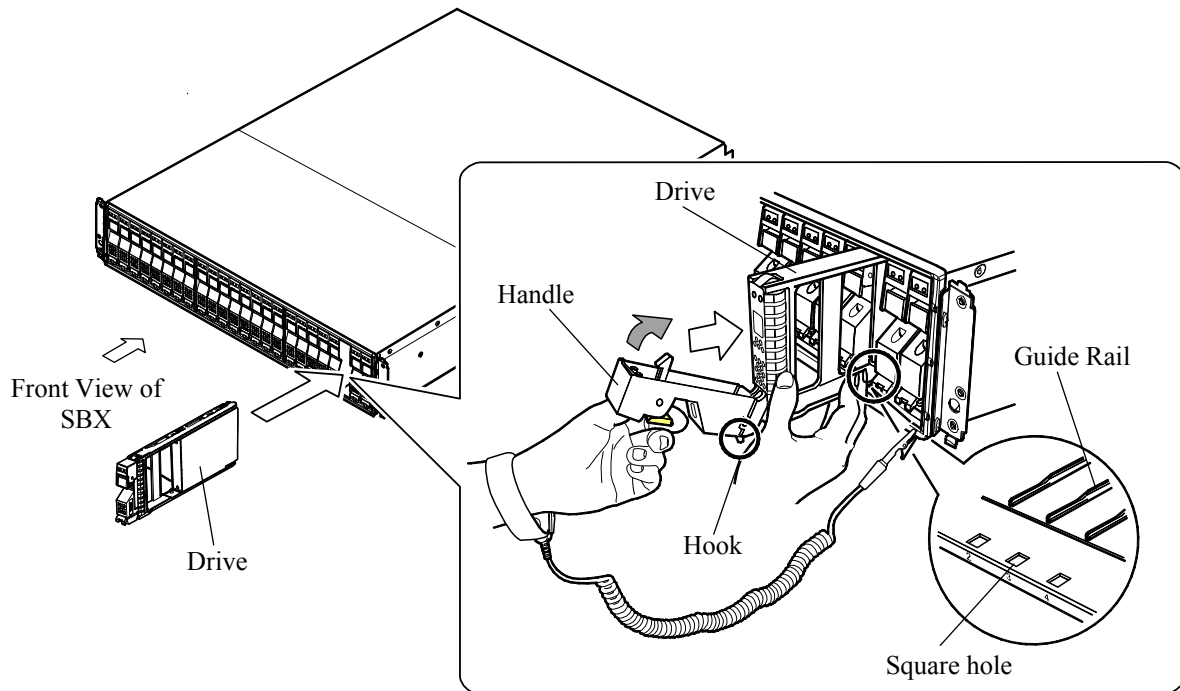


Fig. 1.3.4-5 Installation of Drive (In case of SBX)

### 1.3.4.3.3 In case of FBX

NOTE: When handling the drive, hold the rail side because the shield spring is subject to breakage.

- a. Open the handle fully and fit the drive in the guide rail and slide it in the direction shown by the arrow not to give a shock.
- b. Push the drive in until it reaches the position where a hook of the handle can be entered into the square hole on a frame.
- c. Pull the stopper lightly and close the handle, and then press the stopper to have the lock on. If the handle is closed in the state where the hook of the handle cannot enter into the square hole, the drive cannot be installed correctly because it runs into the frame of the FBX.

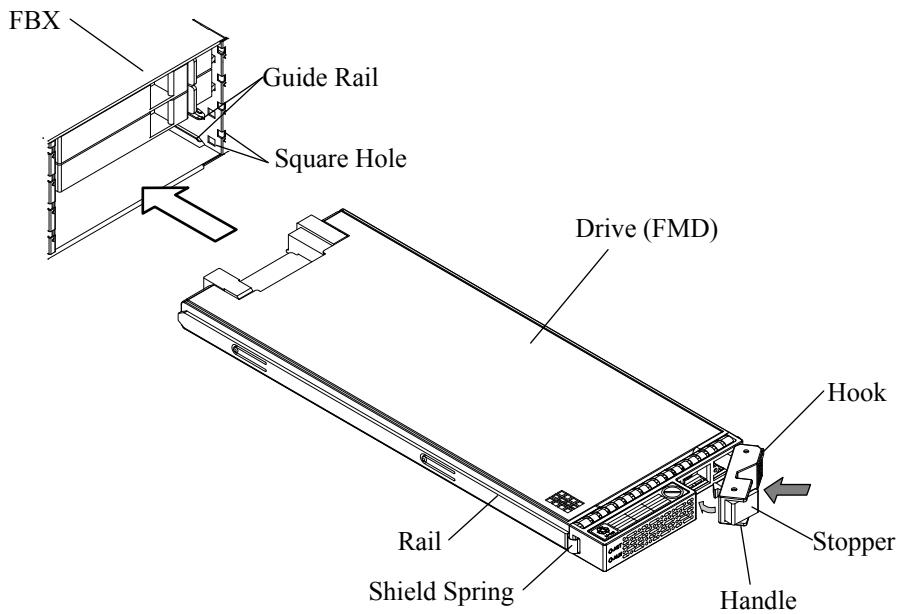


Fig. 1.3.4-6 Installation of Drive (In case of FBX)

## 2. Reset Microprocessor

### 2.1 How to operate the SVP (PC)

#### 2.1.1 How to use Windows

(1) <Notation>

In this manual, “select” has the following meaning, and “(CL)”, “(DC)”, or “(DR)” is added to the word for each meaning.

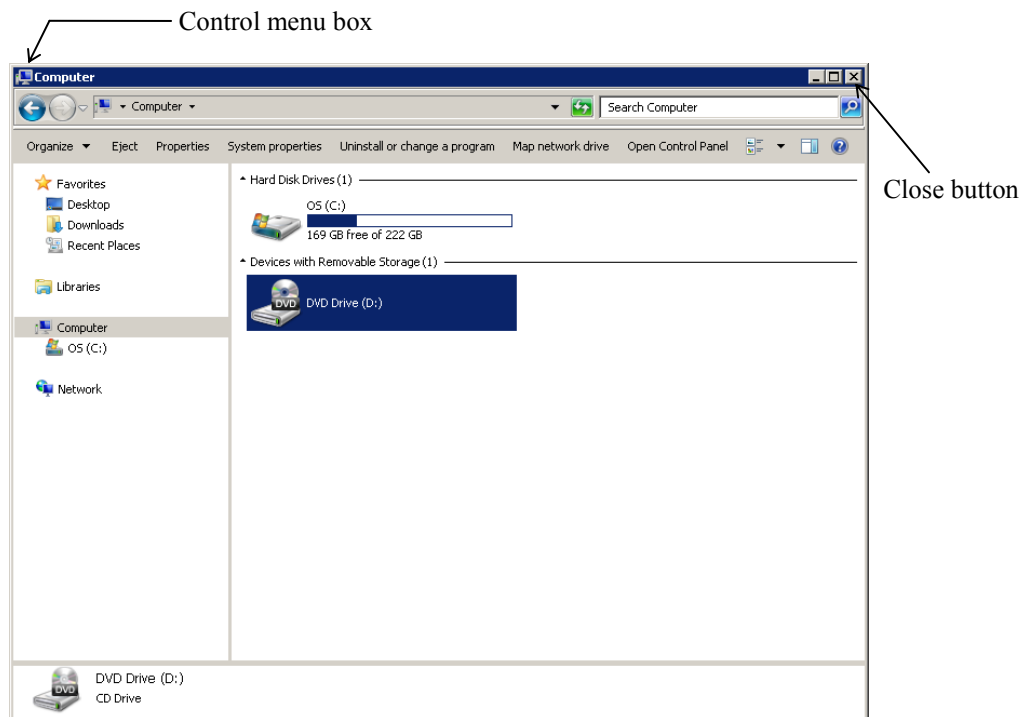
- (CL) Click : Quickly press and release the left side button of mouse.  
(DC) Double-click : Click the left side button of mouse twice in rapid succession.  
(DR) Drag : To hold down the left side button of mouse while you trace the mouse to move the pointer to a desired position. Then release the button.

Example: Select (DC) the [Guidance] icon in the ‘RAID Maintenance Viewer’ window.  
Move the pointer to [Guidance] with the mouse. Then click the left side button of mouse twice in rapid succession.

(2) <Close>

“Close” means to close the application window.

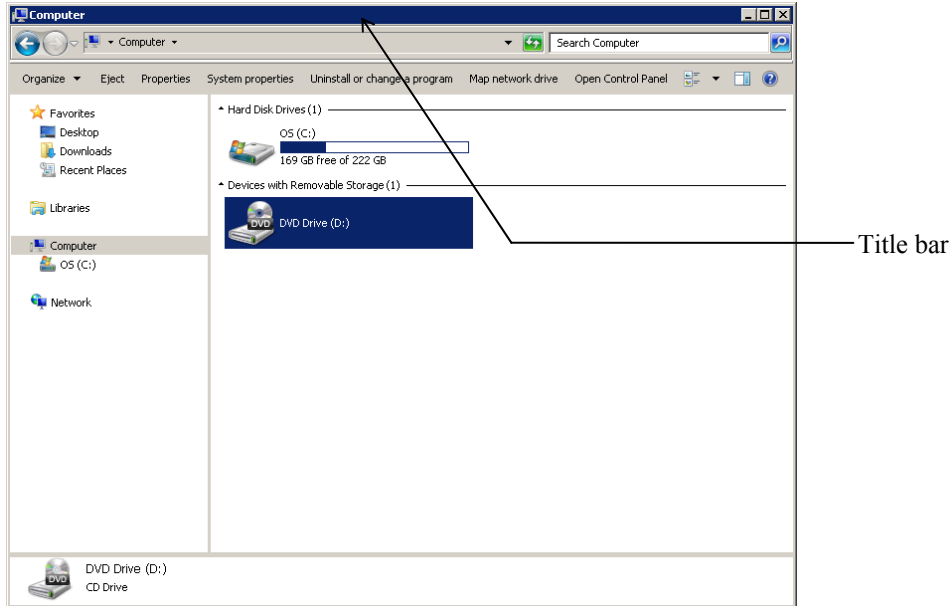
(Double-click the control menu box of the window or click the close button for window.)



(3) <Moving the Window>

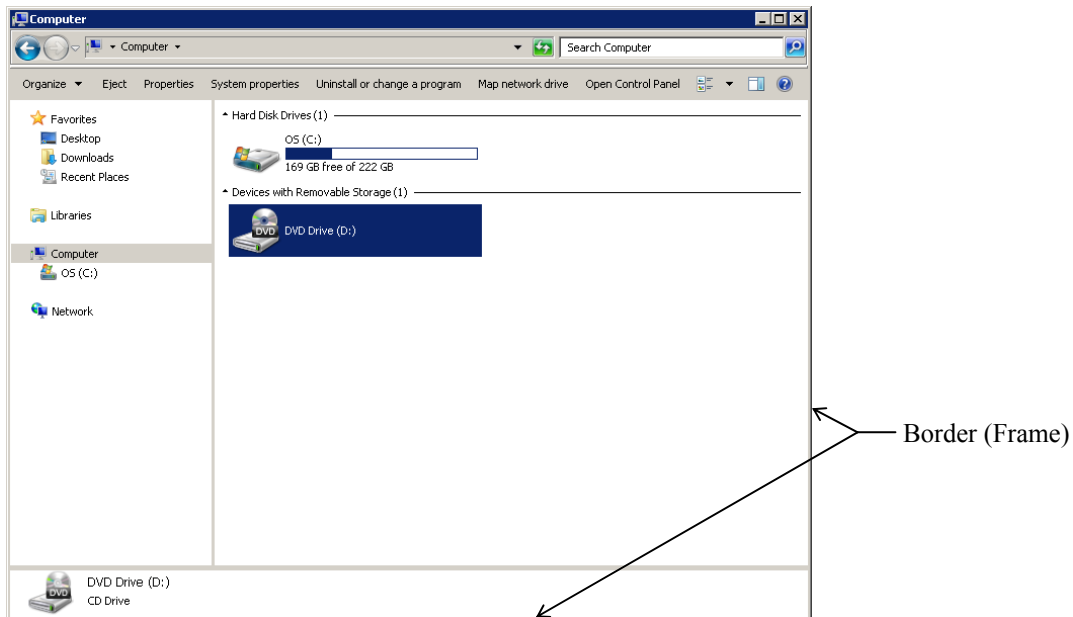
Move the pointer to the title bar with the mouse.

While pressing the button, move the window with the mouse or touchpad (DR) to a desired position and release the button.



(4) <Changing the window size>

Move the pointer to the window border (frame) (the pointer changes to the double-headed arrow). While pressing the button, move the border (the border changes to the broken line) until the window becomes a desired size, and release the button.



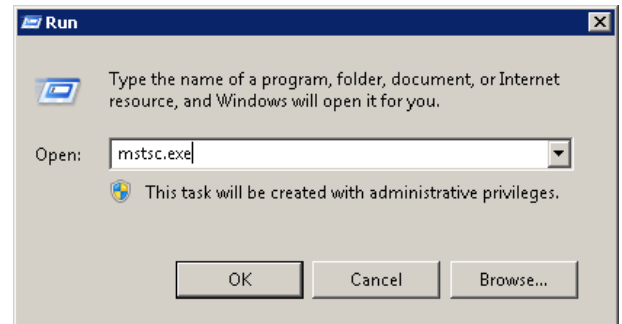
- (5) <Switching the screen (when two or more screens are opened)>  
While pressing the [Alt] key, press [Tab] key (or [Esc] key) until your desired window title is displayed, and release the [Alt] key.

## 2.1.2 Connecting the PC to the SVP

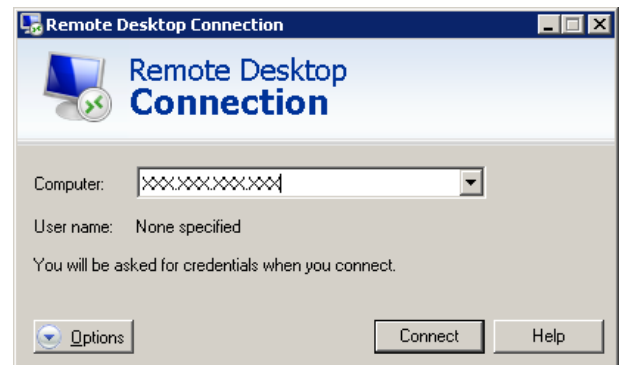
In order to connect to SVP (PC), execute remote desktop connection and perform the following procedures from a Maintenance PC.

### 2.1.2.1 Connection to the SVP

- (1) <Performing remote desktop connection>  
Select (CL) [Run...] from the [Start] menu.  
Enter “mstsc.exe” in the “Open” box, and  
select (CL) the [OK] button.

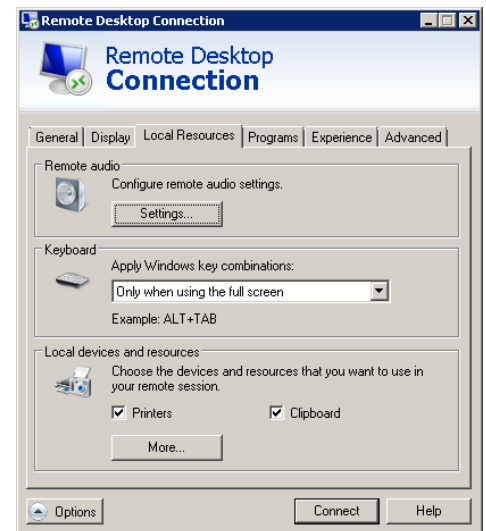


- (2) <Performing the connection>  
Enter IP address or host name of the SVP  
(PC), and select (CL) the [Connect] button.

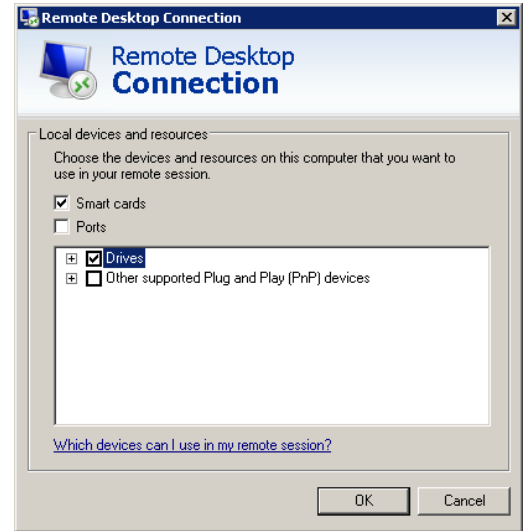


NOTE: Please check that automatic connection of a local disk drive is setup in the case of connection. Confirmation procedure is as follows.

- (a) Select (CL) the [Options] button.
- (b) Select (CL) the “Local Resources” tab in the ‘Remote Desktop Connection’ window.
- (c) Select (CL) the [More...] button in the “Local Resources” tab.

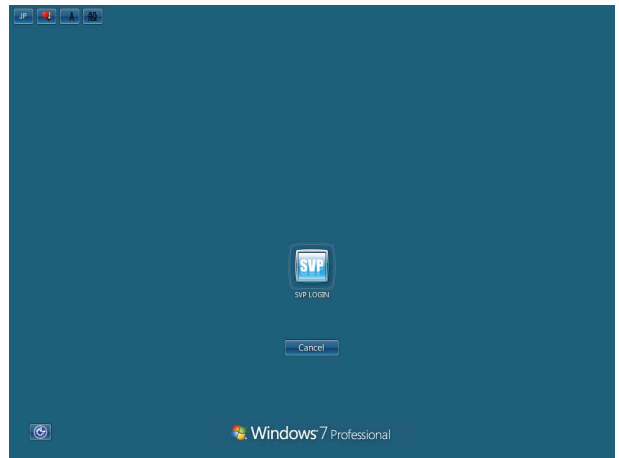


(d) Confirm that the “Drives” is checked.

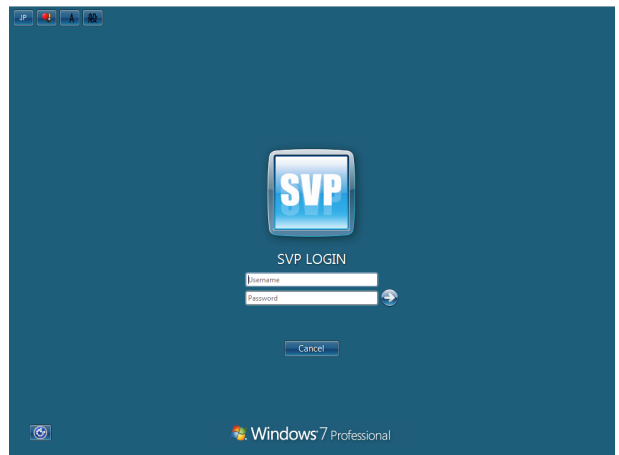


(3) <Performing logon>

Select (CL) SVP icon displayed in the middle of the window, and a window appears to enter user name and password.



Enter user name and password and click the [→] button to logon to the SVP (PC).



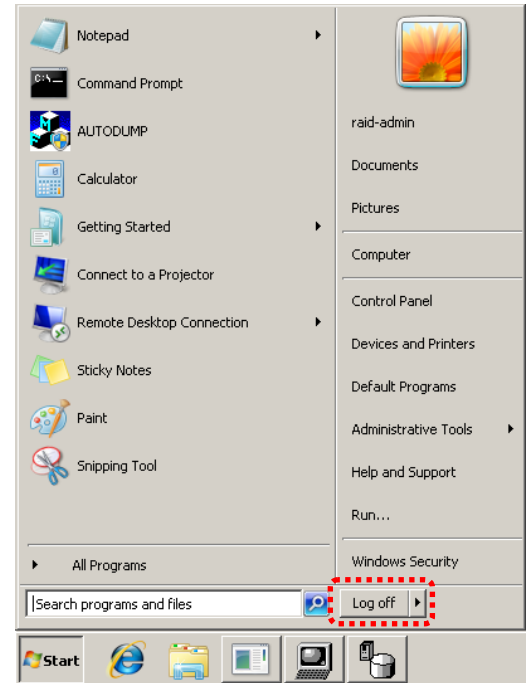
### 2.1.3 Disconnecting the SVP

Disconnect the Maintenance PC from the SVP.

(1) <Log off SVP>

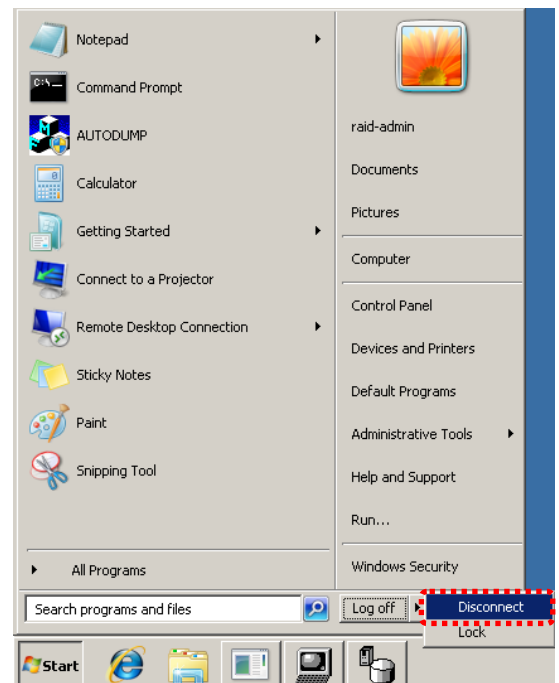
Select (CL) [Log off] from the [Start] menu.

The SVP window in the Maintenance PC is closed.



(2) Disconnect the SVP

Select (CL) [Log off]-[Disconnect] from the [Start] menu. The SVP window in the Maintenance PC is closed.



## **2.2 Reset Microprocessor**

### **2.2.1 Checking of MP location**

This section describes that the location of blocked MP.

1. Check the service information messages (SIMs) at the Alerts window (To open the Alerts window: In the Remote Web Console main window, select (CL) Alert).
2. Search SIM:3073XY (Processor blocking).
3. Specify the location from the following chart.

<Usage Restrictions>

- Not to be used to recover hardware failures.
- Not to be used to recover a MP of MPB which all MP in MPB blocked.

Table 2.2.1-1 SIM Reference code of MP and correspondence table of location (1/4)

X	Y	DKC	MPB	Location
0	0	0	MPB-1MA	MP00-1MA
	1			MP01-1MA
	2			MP02-1MA
	3			MP03-1MA
	4			MP04-1MA
	5			MP05-1MA
	6			MP06-1MA
	7			MP07-1MA
1	0		MPB-1MB	MP00-1MB
	1			MP01-1MB
	2			MP02-1MB
	3			MP03-1MB
	4			MP04-1MB
	5			MP05-1MB
	6			MP06-1MB
	7			MP07-1MB
2	0		MPB-1PE	MP00-1PE
	1			MP01-1PE
	2			MP02-1PE
	3			MP03-1PE
	4			MP04-1PE
	5			MP05-1PE
	6			MP06-1PE
	7			MP07-1PE
3	0		MPB-1PF	MP00-1PF
	1			MP01-1PF
	2			MP02-1PF
	3			MP03-1PF
	4	MP04-1PF		
	5	MP05-1PF		
	6	MP06-1PF		
	7	MP07-1PF		

Table 2.2.1-1 SIM Reference code of MP and correspondence table of location (2/4)

X	Y	DKC	MPB	Location
4	0	0	MPB-2MA	MP00-2MA
	1			MP01-2MA
	2			MP02-2MA
	3			MP03-2MA
	4			MP04-2MA
	5			MP05-2MA
	6			MP06-2MA
	7			MP07-2MA
5	0		MPB-2MB	MP00-2MB
	1			MP01-2MB
	2			MP02-2MB
	3			MP03-2MB
	4			MP04-2MB
	5			MP05-2MB
	6			MP06-2MB
	7			MP07-2MB
6	0		MPB-2PE	MP00-2PE
	1			MP01-2PE
	2			MP02-2PE
	3			MP03-2PE
	4			MP04-2PE
	5			MP05-2PE
	6			MP06-2PE
	7			MP07-2PE
7	0		MPB-2PF	MP00-2PF
	1			MP01-2PF
	2			MP02-2PF
	3			MP03-2PF
	4	MP04-2PF		
	5	MP05-2PF		
	6	MP06-2PF		
	7	MP07-2PF		

Table 2.2.1-1 SIM Reference code of MP and correspondence table of location (3/4)

X	Y	DKC	MPB	Location			
8	0	1	MPB-1MC	MP00-1MC			
	1			MP01-1MC			
	2			MP02-1MC			
	3			MP03-1MC			
	4			MP04-1MC			
	5			MP05-1MC			
	6			MP06-1MC			
	7			MP07-1MC			
9	0		1	MPB-1MD	MP00-1MD		
	1				MP01-1MD		
	2				MP02-1MD		
	3				MP03-1MD		
	4				MP04-1MD		
	5				MP05-1MD		
	6				MP06-1MD		
	7				MP07-1MD		
A	0			1	MPB-1PL	MP00-1PL	
	1					MP01-1PL	
	2					MP02-1PL	
	3					MP03-1PL	
	4					MP04-1PL	
	5					MP05-1PL	
	6					MP06-1PL	
	7					MP07-1PL	
B	0				1	MPB-1PM	MP00-1PM
	1						MP01-1PM
	2						MP02-1PM
	3						MP03-1PM
	4	MP04-1PM					
	5	MP05-1PM					
	6	MP06-1PM					
	7	MP07-1PM					

Table 2.2.1-1 SIM Reference code of MP and correspondence table of location (4/4)

X	Y	DKC	MPB	Location			
C	0	1	MPB-2MC	MP00-2MC			
	1			MP01-2MC			
	2			MP02-2MC			
	3			MP03-2MC			
	4			MP04-2MC			
	5			MP05-2MC			
	6			MP06-2MC			
	7			MP07-2MC			
D	0		1	MPB-2MD	MP00-2MD		
	1				MP01-2MD		
	2				MP02-2MD		
	3				MP03-2MD		
	4				MP04-2MD		
	5				MP05-2MD		
	6				MP06-2MD		
	7				MP07-2MD		
E	0			1	MPB-2PL	MP00-2PL	
	1					MP01-2PL	
	2					MP02-2PL	
	3					MP03-2PL	
	4					MP04-2PL	
	5					MP05-2PL	
	6					MP06-2PL	
	7					MP07-2PL	
F	0				1	MPB-2PM	MP00-2PM
	1						MP01-2PM
	2						MP02-2PM
	3						MP03-2PM
	4	MP04-2PM					
	5	MP05-2PM					
	6	MP06-2PM					
	7	MP07-2PM					

Eg.) 307311 (DKC-0, MPB-1MB, MP01-1MB)

3073B7 (DKC-1, MPB-1PM, MP07-1PM)

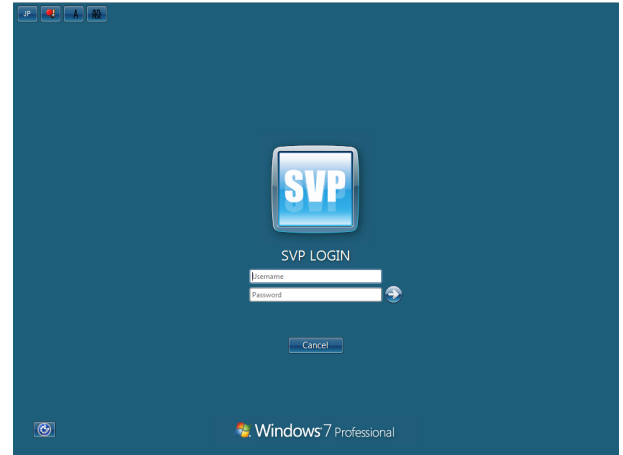
## 2.2.2 Procedure for MP resetting

### (1) <Connection to the SVP>

Connect to SVP using remote desktop connection from a Maintenance PC.

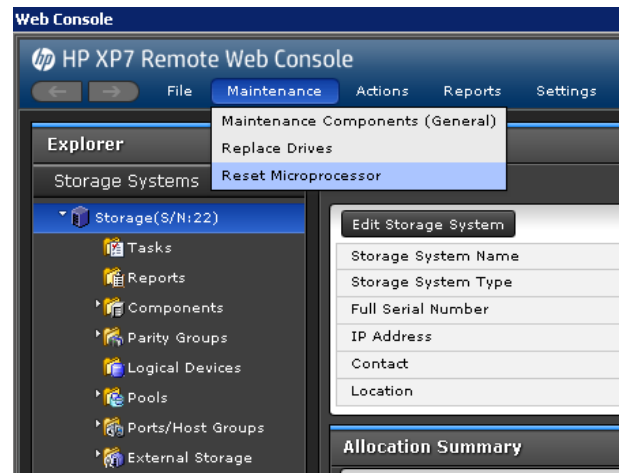
For details, see “2.1.2 Connecting the PC to the SVP”.

Enter user name and password of user maintenance personnel account, and select (CL) the [→] button.



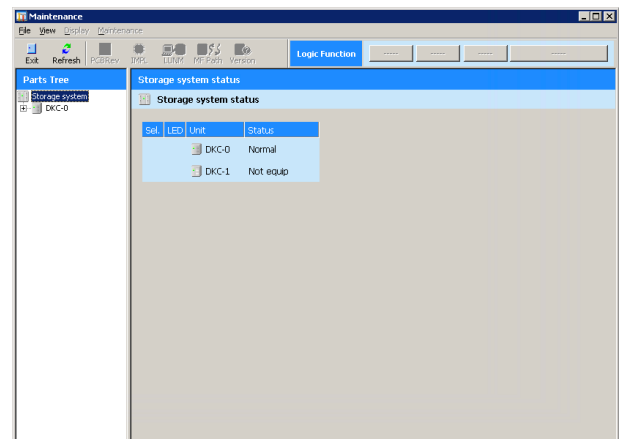
### (2) <Starting a window>

Select (CL) [Maintenance]-[Reset Microprocessor] from the menu in the ‘Web Console’ window.

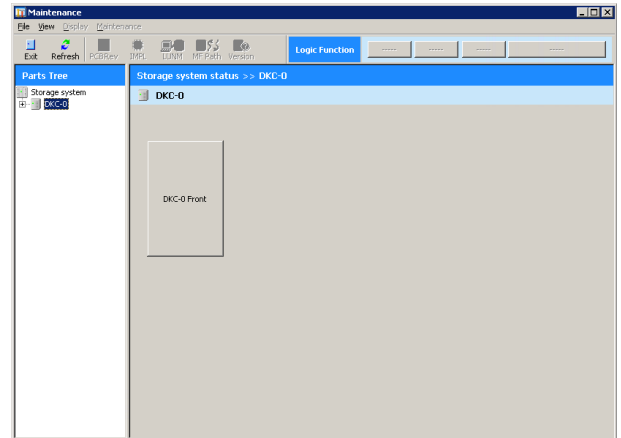


### (3) <Select DKC-n>

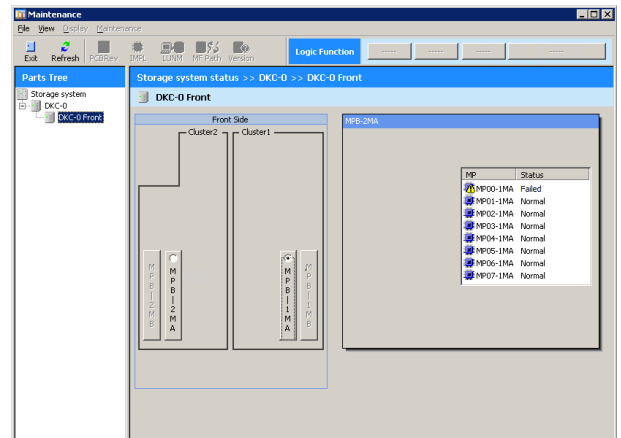
Select (CL) [DKC-n] in the ‘Maintenance’ window.



- (4) <Select DKC-n Front>  
Select (CL) [DKC-n Front] in the [DKC-n].

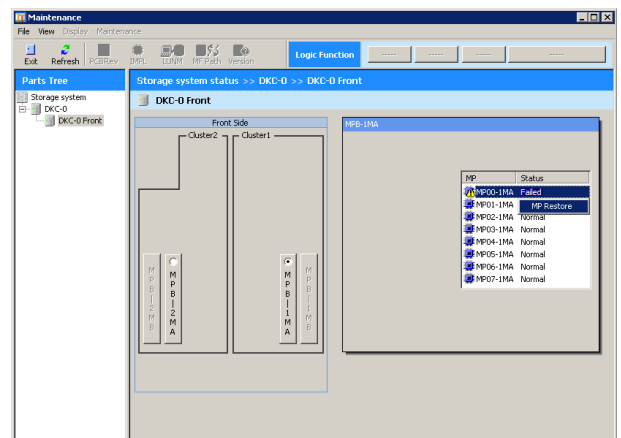


- (5) <Select MP PCB>  
Select (CL) [MPB-nXX] in the [DKC-n Front].



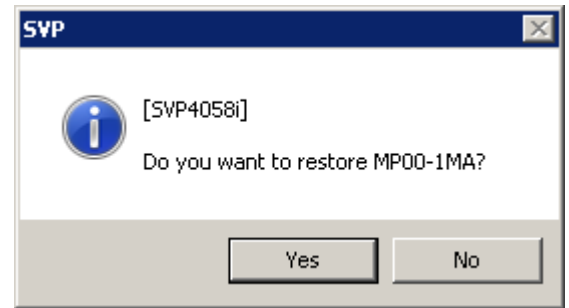
Eg. MPB-1MA

- (6) <Specify reset of MP>  
Make sure that the Status is "Failed".  
Select (CL) [MP Restore] in the context menu.



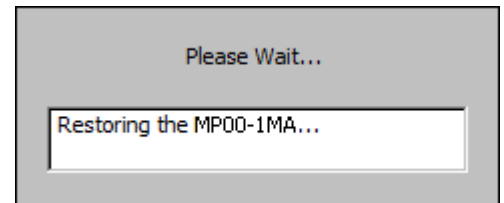
Eg. MPB-1MA

- (7) <Check the beginning of MP Restore>  
Select (CL) [Yes] in response to “Do you want to restore MPnn-nXX?”.



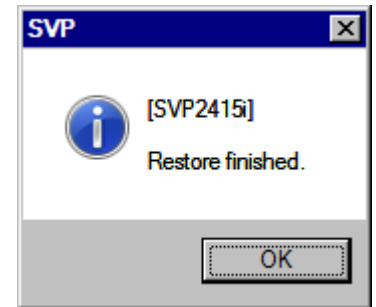
Eg. MP00-1MA

- (8) <Restoring>  
Restoring MP.



Eg. MP00-1MA

- (9) <Check end of restore>  
Select (CL) [OK] in response to “Restore finished.”.



- (10) <Log off the SVP>  
Select (CL) the [Exit] button on the ‘Maintenance’ window to close the window.

Log off the SVP.  
For logoff, see “2.1.3 Disconnecting the SVP”.

