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# [X-path cable REPLACEMENT PROCESSING - RXPC]

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## REP(RXPC)01-10

1. Connecting the Maintenance PC

Connect the Maintenance PC to the SSVP, and then log in to the SVP.

- "Attachment/Removal Procedure of Maintenance PC" (INST(IN)13-02-10)
- "Connection to the SVP" (SVP01-30)
- 2. Starting the SVP window

From the menu of Web Console, click [Maintenance Components] - [Maintenance Other Components].

3. Changing the operation mode Change the mode to [View Mode].

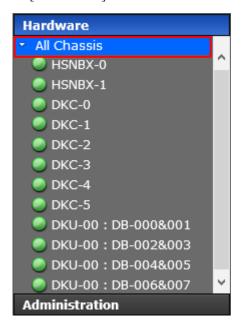
4. Starting Maintenance Utility

In the SVP window, click [Maintenance Utility] (See "Starting Maintenance Utility" (MU01-10).)

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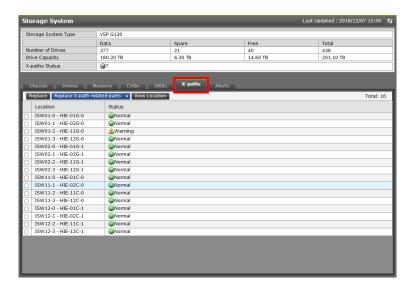
### REP(RXPC)01-20

- 5. Selecting replacement parts by Maintenance Utility.
  - (1) <Main window> Select [All Chassis] in the main window.



(2) <Storage System window>
Click the [X-paths] tab in the Storage System window to display a X-Path status.
See "Alert Display Related to FRU (Field Replacement Unit)" (MU02-10) for [Status].

NOTE: When the Status of ISWxx-x - HIE-xxx-x is Warning in the [X-paths] tab and SIM reference codes and action codes (ACC) do not indicate the X-path cable failure, perform the recovery procedures of the indicated parts. To resolve the X-path cable failure, perform the following recovery procedure.



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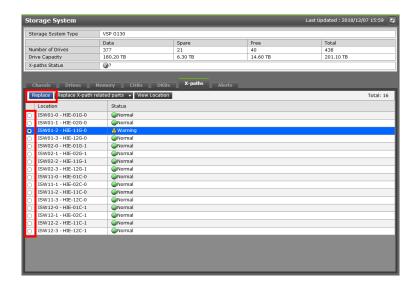
## REP(RXPC)01-30

(3) <Selecting the X-path cable (ISWxx-x - HIE-xxx-x)> Selecting the X-path cable (ISWxx-x - HIE-xxx-x) to be replaced, and then click [Replace].

# **A** CAUTION

If the following is met, the X-path cable replacement cannot be performed. Perform the HIE replacement.

• X-path cable other than the X-path cable to be replaced, which are connected to HIE, are blocked.



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### REP(RXPC)01-40

(4) <Blocking the ISW port and HIE port>

## **A** CAUTION

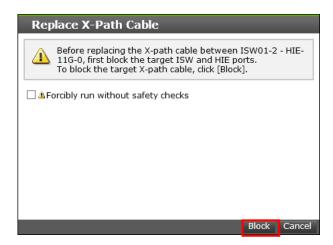
About "Forcibly run without safety checks":

If you check this checkbox and execute the maintenance, the system may go down. Do not check it unless instructed by the message, the manual or the contact described in the manual.

Check that the ISW port and HIE port to which the X-path cable (ISWxx-x - HIE-xxx-x) is connected are correct, and then click [Block].

If a message other than the described is displayed, refer to Message Section (MSG00-00).

NOTE: The error list window is displayed if multiple errors are detected by the prior check. If it is displayed, click the text of "Error Code" and recover the failures or the blockade in accordance with the details of the displayed errors.



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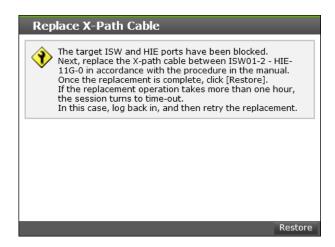
## REP(RXPC)01-50

(5) <Confirming that the preparation for the X-path cable (ISWxx-x - HIE-xxx-x) replacement is completed>

Check that the ISW port and HIE port are blocked and that the preparation for the X-path cable replacement is completed.

NOTE: Do not click [Restore] at this time.

Click [Restore] after completing the replacement work.

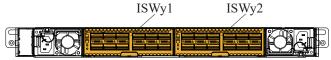


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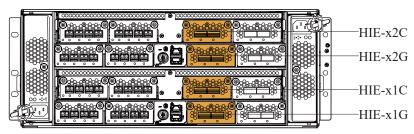
## REP(RXPC)01-60

## 6. X-path Cable Replacement Processing

Location	Function Name of Component		Part Name
Rear of HSNBX	1	X-path cable	• X Path cable (Copper 0.45 m)
Rear of DKC			• X Path cable (Copper 0.6 m)
			• X Path cable (Optical 5 m)
			PCIe Adapter + Optical cable
			(10 m/20 m/30 m/100 m)

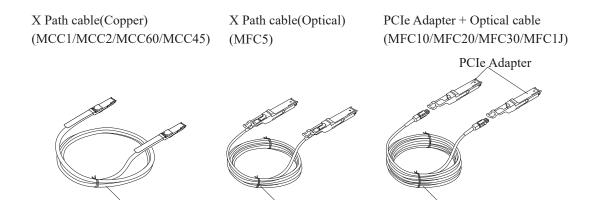


Rear view of HSNBX-y



Rear view of DKC-x

X-path cable



X-path cable

**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 Storage System before starting and do not take it off until you finish. See "Note on Installing and Removing Parts" (REP(GE)01-30).

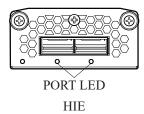
X-path cable

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### REP(RXPC)01-70

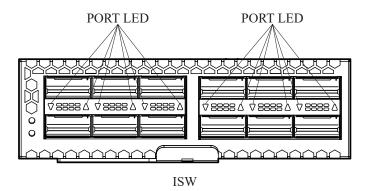
(1) Check that the PORT LED on the HIE to which the X-path cable to be replaced is connected lights up. If the PORT LED does not light up, check the connected HIE port location in the Maintenance Utility window.

Figure 1-1 PORT LED Position



- (2) Remove the X-path cable to be replaced from the HIE.
- (3) Check that the PORT LED on the ISW to which the X-path cable to be replaced is connected lights up in red. If the PORT LED does not light up, check the connected ISW port location in the Maintenance Utility window.

Figure 1-2 PORT LED Position



- (4) Remove the X-path cable to be replaced from the ISW.
- (5) Peel a cable color code of the same color as that attached to the removed X-path cable from the sheet, and attach it to a new X-path cable (see "Attachment of cable color codes" (INST(IN)09-02-30)).
- (6) Connect the X-path cable to the HIE and the ISW according to "X-path Cable Diagram" (LOC05-70).

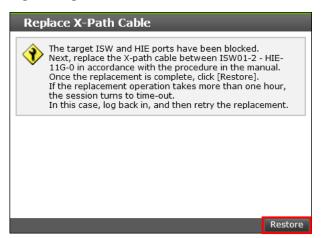
Connect the X-path cables according to "X-path Cable Diagram" (LOC05-70).

- NOTE: Check that the latch clicks and the cables are firmly connected.
  - When connecting an X-path cable, be careful not to damage the edge of the cable (see "Precautions when Connecting X-Path Cables" (INST(IN)09-02-10)).

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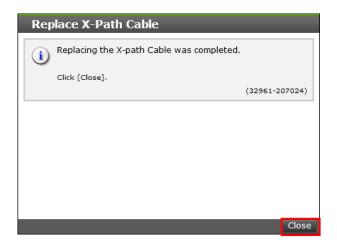
### REP(RXPC)01-80

- 7. Restoring replacement parts by Maintenance Utility
  - (1) <Restore replacement parts> Click [Restore].



(2) <Check replacement parts restoration>
Check that the following message is displayed and click [Close].
If a message other than the described is displayed, refer to Message Section (MSG00-00).

- NOTE: If the replacement fails, check the statuses of the general-purpose LEDs and the PORT LEDs on the HIE (see "HIE" in "Other Switches and LEDs" (LOC03-130)).
  - If the replacement fails due to incorrect connections of X-path cables, identify the cause of failure, and correct the incorrect connections (see "Recovery Procedure for Blocked CTL/HIE/ISW/X-path" (TRBL03-56-10)).



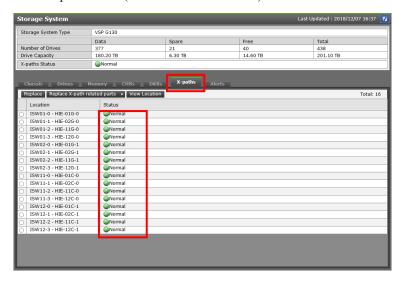
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(3) < Checking that the X-path cable (ISWxx-x - HIE-xxx-x) is restored> In the Storage Systems window, click the [X-paths] tab, and check that the status of the newly installed X-path cable (ISWxx-x - HIE-xxx-x) is "Normal".



- 8. Closing Maintenance Utility
  - (1) Click [Logout] to close the window.
  - (2) <Get the error information> Collect small system dumps by referring to "Dump/Auto Dump" (SVP02-09-10).
  - (3) Refer to the "Use of OnlineDumpTool" (SVP02-21-10), please upload the error information.

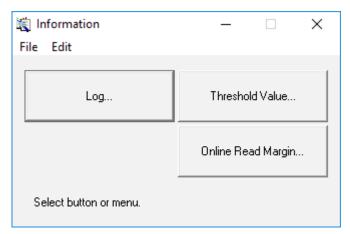
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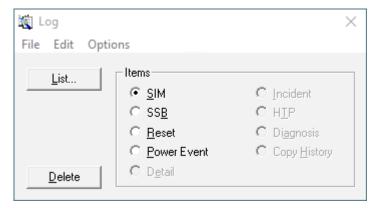
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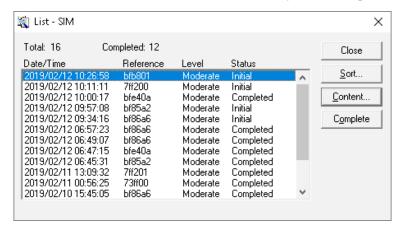
- 9. Completing the SIM log
  - (1) Change the mode to [Modify Mode], and then select [Information].
  - (2) In the Information window, click [Log...].



(3) In the Log window, select [SIM] and then [List...].



(4) In the List-SIM window, select the data for which you end the process, and then click [Complete].

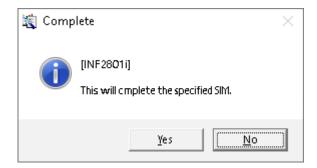


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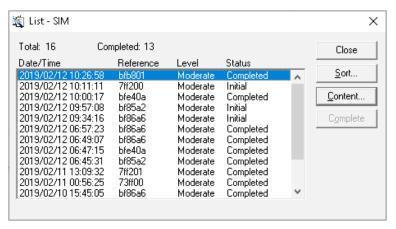
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(5) In the Complete window, click [Yes].



(6) In the List-SIM window, confirm that the "Status" of the data has become "Completed".



(7) In the List-SIM window, click [Close].Close the Log window, then the Information window.Change the mode from [Modify Mode] to [View Mode].

NOTE: If the MESSAGE LED is lit on the HSNPANEL after you complete all SIMs, display SIMs to check that SIM statuses are "Completed". If SIM statuses are not "Completed", wait for five minutes, and then perform the procedure for completing the SIM log again.

## 10. Checking Normality

Perform the normality check according to "Checking Normality (TRBL02-06-10)".