Hitachi Vantara

Hitachi Dynamic Link Manager (for VMware®) 9.0.4-00 Release Notes

About this document

This document (RN-91HC190-55, May 2026) provides the latest information about Hitachi Dynamic Link Manager (for VMware®) 9.0.4-00, including information that was not available at the time the technical documentation for this product was published.

Intended audience

This document is intended for customers and Hitachi Vantara partners who license and use Hitachi Dynamic Link Manager (for VMware®)

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About this release

This release is a major release that adds new features and resolves multiple known problems.

Product package contents

Medium	CD-ROM	Revision	Release Type	Prerequisite version of Service Pack
Software	Hitachi Dynamic Link Manager (for VMware)	9.0.4-00	Full Package	-

New features and important enhancements

9.0.4-00 Additional Functions and Modifications

- VMware ESX 9.0.1 is now supported.
- VMware ESX 9.0.2 is now supported.
- VCF PowerCLI 9.0 is now supported in an ESXi8.x environment.
- The levels of the messages output by the processing to check licenses were changed.
  Message levels before the change:
  KAPL01073-E, KAPL01074-E
  Message levels after the change:
  KAPL01073-W, KAPL01074-W
- The license information that is displayed by using the dlnkmgr view -sys command was improved.

System requirements

For system requirements, see Chapter 3. Creating an HDLM Environment in the Hitachi Dynamic Link Manager (for VMware®) User Guide.

Host

For details on supported hosts, see the Hitachi Dynamic Link Manager (for VMware®) User Guide, Chapter 3. Creating an HDLM Environment > Creating an HDLM Environment > HDLM System Requirements > Hosts and OSs Supported by HDLM.

Host Bus Adapter (HBA)

Applicable HBAs and HBA drivers:

- Inbox driver for ESXi 8.0/ESX 9.0 or HBA drivers that support ESXi 8.0/ESX 9.0 as listed in VMware Compatibility Guide.
- HBAs and HBA drivers for BladeSymphony that support ESXi 8.0/ESX 9.0 as listed in VMware Compatibility Guide.

Storage

For supported storage systems, see the Hitachi Dynamic Link Manager (for VMware®) User Guide, Chapter 3. Creating an HDLM environment > Creating an HDLM Environment > HDLM System Requirements > Storage Systems Supported by HDLM.

Operating Systems Requirements

The following operating systems are supported.

- VMware vSphere ESXi 8.0 Standard Edition/ Enterprise Edition/ Enterprise Plus Edition
  - Update 1
  - Update 2
  - Update 3
- VMware ESX 9.0

  For details on the versions of ESXi, see Broadcom Knowledge Articles Article ID: 316595.
  https://knowledge.broadcom.com/external/article?articleNumber=316595

Prerequisite Programs

Host

- None.

Remote management host

- NET Framework 4.7 or a later version
- VMware PowerCLI 12.7/13.0/13.1/13.3
- VCF PowerCLI 9.0

  If the host is ESXi 8.0, VMware PowerCLI 12.7.0, 13.1.0, 13.3.0 or VCF PowerCLI 9.0 must be used.
  If the host is ESXi 8.0U1, VMware PowerCLI 13.0.0, 13.1.0, 13.3.0 or VCF PowerCLI 9.0 must be used.
  If the host is ESXi 8.0U2, VMware PowerCLI 13.1.0,13.3.0 or VCF PowerCLI 9.0 must be used.
  If the host is ESXi 8.0U3, VMware PowerCLI 13.3.0 or VCF PowerCLI 9.0 must be used.
  If the host is ESX 9.0, 9.01, 9.0.2 VCF PowerCLI 9.0 must be used.

Resolved problems

9.0.4-00 Modifications

The following problems were corrected:

- If a location under the Windows system folder is specified as the installation folder for HDLM, attempts to install HDLM might fail.
- The command output of the DLMgetras utility might not be output to the specified output destination.
- The command output of the dlmperfinfo utility might not be output to the specified output destination.

Known problems

- When you remove HDLM by using removehdlm (utility for Removing HDLM) in "HDLM-installation-folder\bin", perform the following:
  - "HDLM-installation-folder\bin" is not deleted. Delete the "HDLM-installation-folder".
  - The dialog box "removehdlm is in use" is displayed during a remove. Select "Continue" to continue the remove.

    This issue can be avoided by performing either of the following procedures:
  - Obtain the HDLM installation DVD, and then remove HDLM by using the removehdlm utility stored in "drive-containing-installation-DVD-ROM:\HDLM_VMware\DLMTools".
  - Copy the removehdlm utility in "HDLM-installation-folder\bin" to any location, and then remove HDLM by using the copied removehdlm utility.
- ·A dialog box is displayed to prompt a system restart even when a new installation or upgrade installation is aborted. Select "No" because the reboot associated with the installation abort is not required.
- When you create a cluster configuration in a virtual machine environment by using cluster software (such as MSCS or HA Monitors) that uses SCSI reservations, you cannot apply the following HDLM load balancing algorithms:
  - Extended Round Robin: HTI_PSP_HDLM_EXRR
  - Extended Least I/Os: HTI_PSP_HDLM_EXLIO
  - Extended Least Blocks: HTI_PSP_HDLM_EXLBK
    Instead, specify one of the following load balancing algorithms for the LUs assigned to the virtual machine:
  - Most Recently Used (VMware): VMW_PSP_MRU

- Round Robin (VMware): VMW_PSP_RR
  Note that you can specify settings for each LU by using VMware by means such as the esxcli commands or vSphere Web Client.

- When you use VMware PowerCLI, use the command prompt of Windows PowerShell to run the utility for collecting HDLM error information (DLMgetras).
- When you install VMware PowerCLI, note the following restrictions:
  - Do not install the product into the following folder:
    $PSHome\Modules(%Windir%\System32\WindowsPowerShell\v1.0\Modules)
    This folder is reserved for modules provided by Windows.
- When you upgrade HDLM in an environment linked with Global Link Manager, PowerCLI is installed in the following folder:

  $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
  When an upgrade of PowerCLI is required, complete the following steps:

1. If any PowerShell prompts are open, close all of them.
2. Stop HDLM manager as follows:
   a. From Control Panel, select Administrative Tools > Services to open the Services window.
   b. From the list of services, select DLMManagerVM. Then, from the Action menu, select Stop to stop the service.
3. Delete the PowerCLI cmdlets (VMware.xxx) placed in $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
4. Download the PowerCLI ZIP file from the PowerCLI website and transfer the ZIP file to your local machine.
5. Extract the contents of the ZIP file to $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
6. Unblock the blocked files of the extracted PowerCLI modules by using the following PowerShell command:

   Get-ChildItem * -Recurse | Unblock-File
7. Verify that the PowerCLI modules are available by using the following PowerShell command:

   Get-Module -Name VMware.PowerCLI* -ListAvailable
8. Start HDLM Manager as follows:
   a. From Control Panel, select Administrative Tools > Services to open the Services window.
   b. From the list of services, select DLMManagerVM. Then, from the Action menu, select Start to start the service.

- When you upgrade HDLM in an environment not linked with Global Link Manager, PowerCLI is installed in one of the following folders:

  $Home\Documents\WindowsPowerShell\Modules (%UserProfile%\Documents\WindowsPowerShell\Modules)
  $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
  When an upgrade of PowerCLI is required, upgrade PowerCLI as follows:

1. If any PowerShell prompts are open, close all of them.
2. Stop the HDLM manager as follows:
   a. From Control Panel, select Administrative Tools and then Services to open the Services window.
   b. From the list of services, select DLMManagerVM. Then, from the Action menu, select Stop to stop the service.
3. Delete the PowerCLI cmdlets (VMware.xxx) placed in $Home\Documents\WindowsPowerShell\Modules (%UserProfile%\Documents\WindowsPowerShell\Modules) or $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
4. Download the PowerCLI ZIP file from the PowerCLI website and transfer the ZIP file to your local machine.
5. Extract the contents of the ZIP file to $Home\Documents\WindowsPowerShell\Modules (%UserProfile%\Documents\WindowsPowerShell\Modules) or $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)

6. Unblock the blocked files of the extracted PowerCLI modules by using the following PowerShell command:

   Get-ChildItem * -Recurse | Unblock-File

7. Verify that the PowerCLI modules are available by using the following PowerShell command:

   Get-Module -Name VMware.PowerCLI* -ListAvailable

8. Start the HDLM Manager as follows:

   a. From Control Panel, select Administrative Tools > Services to open the Services window.
   b. From the list of services, select DLMManagerVM. Then, from the Action menu, select Start to start the service.

- When you perform a new installation of HDLM, install PowerCLI in the following folder that only the current user can access:

  $Home\Documents\WindowsPowerShell\Modules (%UserProfile%\Documents\WindowsPowerShell\Modules)

- When you install PowerCLI by using the Install-Module command of Windows PowerShell, specify CurrentUser for the -Scope parameter.

  In addition, you can also install PowerCLI in the following folder that all users can access:
  $Env:ProgramFiles\WindowsPowerShell\Modules (%ProgramFiles%\WindowsPowerShell\Modules)
  For details on how to install PowerCLI, follow the VMware documentation.

- When you install VMware vSphere CLI and VMware PowerCLI on the same remote management client, do not perform any actions that involve the Credential Store file for vSphere CLI by using PowerCLI cmdlets or by using credstore_admin.pl.

  The password encryption and decryption algorithms are not same between vSphere CLI and PowerCLI, so if you perform these operations, the Credential Store file might become unusable.
  If you want to perform such actions, you must delete the Credential Store file and then create it again.
  In addition, in an environment where the Credential Store file created by using credstore_admin.pl of vSphere CLI, if you use the dlnkmgr command by switching
  CLI to PowerCLI, the following error message might be output when you do not specify a user name or password.

  KAPL01183-E The HDLM command cannot be executed because the VMware PowerCLI settings are not configured properly.

  If the above message is output, specify a user name or password.

- When you remove HDLM plugins from the ESXi host and install an older version of the HDLM plugins, delete the module option information of the HDLM first, and then install the older version of HDLM.

  If you do not delete the information, HDLM SATP might not be loaded. If HDLM SATP is not loaded, an error message is output to vmkwarning.log. In addition, the dlnkmgr view -sys command terminates with an error.
  <vmkwarning.log>
  WARNING: NMP: nmpSatpCheckLoadedModule:794: SATP instance, name=HTI_SATP_HDLM:
  Load Failed! [Bad parameter]
  <Command error message>
  # dlnkmgr connection-options view -sys
  KAPL01181-E The HDLM driver is not installed correctly.
  To delete the module option information, run the following command on the ESXi host:
  # esxcfg-module --set-options "" hti_satp_hdlm

  Delete the module option information after one of the following two operations:
  - Removing the HDLM plugins:

  Delete the module option information after performing step 4 "Remove HDLM" in the section "When using VMware vSphere CLI" or "When using VMware Power CLI" in "Chapter 3. Creating an HDLM Environment - Removing HDLM" of the Hitachi Dynamic Link Manager User Guide for VMware®.
  - Removing HDLM plugins and then re-installing an older version of the HDLM plugins:

  Delete the module option information, and then restart the ESXi host.
  When you delete the module option information, the HDLM option settings are also deleted. Therefore, check the option settings of HDLM before the deletion, and then reconfigure them by using the dlnkmgr set command.

- ·When you install HDLM by using vSphere Lifecycle Manager, for ESXi 8.0 or later, use the Depot file instead of the addon file.

- Storge systems with following functions are no longer supported:
  - Dynamic load balance control

- High Availability Manager
- Virtual ID function for storage migration

However, the parameters for these functions are displayed in the format of the set or view action of the HDLM command when using the help option and the following item is displayed when view -sys operation is run:
Dynamic I/O Path Control

- If the property "QuickEdit Mode" is enabled in the command prompt or in the Windows PowerShell prompt, the command processing stops when you select text in a window where the DLMgetras command is running. While text is selected, the window displays "Select", and the command processing will not restart until you press the Enter key.
- When you run the dlmperfinfo utility or the DLMgetras utility from the PowerShell command prompt when you do not have system administrator permissions, the User Account Control (UAC) dialog box does not appear.

  The following warning messages are output, and the utility cannot be run:
  - For the dlmperfinfo utility: "KAPL13038-W A parameter is invalid."
  - For the DLMgetras utility: "KAPL10005-W The number of parameters is insufficient."

Installation precautions

For details on HDLM installation, see the Hitachi Dynamic Link Manager (for VMware®) User Guide, Chapter 3. Creating an HDLM Environment > Installing HDLM.

Additional Precautions

- ESXi and VIB package that is a module package of VMware respectively have four acceptance levels: VmwareCertified, VmwareAccepted, PartnerSupported and CommunitySupported, from higher levels. If the acceptance level of an ESXi is higher than that of a VIB package, the VIB package cannot be installed on the ESXi. In this case, an operation of lowering the acceptance level of the ESXi to an appropriate level is required. For the procedures, see the Hitachi Dynamic Link Manager (for VMware®) User Guide, Chapter 3. Creating an HDLM Environment > Installing HDLM.
- Names of offline bundle files and plugin modules provided in this version are listed in the following tables.

  Install file name and information of plugins

Install file name	Displaying the HDLM version of the host	Plugin name	Version *1	Acceptance level
hdlm-0903000001-0800-depot.zip*2	9.0.3-00	satp-hdlm-vsp	09.0.3-00.0800	VMwareAccepted
		psp-hdlm-exlio-vsp	09.0.3-00.0800	VMwareAccepted
		psp-hdlm-exlbk-vsp	09.0.3-00.0800	VMwareAccepted
		psp-hdlm-exrr-vsp	09.0.3-00.0800	VMwareAccepted
		hex-hdlm-dlnkmgr	09.0.3-00.0800	PartnerSupported

*1: You can check the version information of each plugin on an ESXi host by running the following command.
esxcli software vib list | grep hdlm
*2: This is the depot file for ESXi8.x/ESX9.x

- The command prompt that is displayed during an installation, upgrade, or uninstallation of remote management client is automatically closed after the operation is completed. Make sure not to close it during the operation. If Command Prompt is closed during the operation, the operation of an installation, upgrade, or uninstallation ends before completion. In this case, perform an upgrade installation.
- The maximum number of LUs including all SCSI devices such as built-in disks and CD-ROM drives is 1024 for ESXi 8.0 or later. Therefore, the maximum number of LUs for a storage system manageable by HDLM will be smaller than the maximum for ESXi, depending on the status of other connected devices. Before applying HDLM to an ESXi host, confirm that the ESXi host correctly recognizes the LUs to be managed by HDLM.
- Even in an environment where no HDLM-managed storage is allocated to an ESXi host, you can install HDLM. If you allocate HDLM-managed storage after installing HDLM, restart the host to recognize the storage.

- Upgrading the Windows OS while HDLM is installed is not supported. Remove HDLM, upgrade the Windows OS, and then re-install HDLM.
- If you are unable to prepare a remote management client to install HDLM, enable SSH access and ESX/ESXi Shell on the ESX/ESXi host, and then log in directly to the ESX/ESXi host to install or remove HDLM. As a security measure, after HDLM is installed or removed, disable SSH access and the ESX/ESXi Shell on the host.

<Procedure for installing HDLM >

1. Copy the depot files to a directory on the host.

The depot files are stored in the plugin folder of the installation media.

2. Log in to the ESX/ESXi host.

3. Change the host acceptance level.

Run the following command to check the current acceptance level of the host:

esxcli software acceptance get

Save the command output. You will need it if you remove HDLM in the future.

After saving the command output, run the following command to change the host acceptance level:

esxcli software acceptance set --level=PartnerSupported

4. Install HDLM on the host.

Run the following command.

For the -d parameter, specify the absolute path of the depot file you copied in step 1.

esxcli software component apply -d /<any-folder-on-the-host>/<depot-file-name>

When the installation process has completed, restart the host.

5. After restarting the host, run the following command and make sure that the plug-in version number matches that described in the HDLM Release Notes:

esxcli software vib list | grep hdlm

6. Make sure that the SATP claim rule for HDLM has been applied.

- Run the following command and make sure that the claim rule appears:

esxcli storage nmp satp rule list | grep HTI_SATP_HDLM

- If the claim rule does not appear, run the following commands to register the claim rule.

After the registration, go back to step 6 and resume the operation.

esxcli storage nmp satp rule add -V HITACHI -M "^DF600F*" -s HTI_SATP_HDLM

esxcli storage nmp satp rule add -V HITACHI -M "^OPEN-*" -s HTI_SATP_HDLM

esxcli storage nmp satp rule add -V HP -M "^OPEN-*" -s HTI_SATP_HDLM

esxcli storage nmp satp rule add -V HPE -M "^OPEN-*" -s HTI_SATP_HDLM

7. Run the following command and make sure that all paths of the HDLM target storage exist and that Group State is active:

esxcli storage nmp path list

8. Run the following command and make sure that all devices of the HDLM target storage exist and HTI_SATP_HDLM is displayed in the Storage Array Type field:

esxcli storage nmp device list

<Procedure for removing HDLM>

1. Log in to the ESX/ESXi host.

2. Run the following command to check the Vib name of HDLM:

esxcli software vib list | grep hdlm

3. Remove HDLM.

Run the following command. For the -n parameter, specify the Vib name that you checked in step 2. There are five Vibs of HDLM in total, therefore you must run the command five times.

esxcli software vib remove -n <Vib-name>

4. Return the acceptance level of the host to what it was before you installed HDLM.

Run the following command. For the --level parameter, specify the acceptance level value that you noted before installing HDLM.

esxcli software acceptance set --level=<acceptance-level>

5. Restart the host.

6. Run the following command to check the list of devices:

esxcli storage nmp device list

:

:

naa.60060e8006cf2e000000cf2e00000039

Device Display Name: HITACHI Fibre Channel Disk

(naa.60060e8006cf2e000000cf2e00000039)

Storage Array Type: VMW_SATP_LOCAL

Storage Array Type Device Config: {device config options }

Path Selection Policy: VMW_PSP_MRU

Path Selection Policy Device Config:

Path Selection Policy Device Custom Config:

Working Paths: vmhba2:C0:T0:L3

:

:

In the command output, search for items for which HITACHI Fibre Channel Disk appears in the Device Display Name field, and make sure that HTI_SATP_HDLM is not displayed in the Storage Array Type field for those items.

Usage precautions

Notes on General procedures

- HDLM provides NMP sub-plugins(SATP/PSP) to enable multipath management for Hitachi storages. For information on NMP/SATP/PSP, refer to the following documentation(*).

  https://techdocs.broadcom.com/jp/ja/vmware-cis/vsphere/vsphere/8-0/vsphere-storage-8-0.html
  https://techdocs.broadcom.com/jp/ja/vmware-cis/vsphere/vsphere/9-0/vsphere-storage.html
  (*): As of October 2025.

- Any restrictions and precautions for NMP which Broadcom announces are applied to your environment using HDLM. Check the restrictions and precautions before you build an environment.
- Any restrictions and precautions for PSP VMW_PSP_RR (Round Robin) that is provided by VMware are applied to the following HDLM load balances.
  - HTI_PSP_HDLM_EXLIO
  - HTI_PSP_HDLM_EXLBK
  - HTI_PSP_HDLM_EXRR

- In HDLM 8.6.0 and later, the specifications were changed to match those of VMW_PSP_RR (a PSP of VMware NMP) so that "Active(I/O)" is displayed as the status for all active paths in vSphere Client and in vSphere Web Client.

  If you want to revert to the previous specification, in which "Active(I/O)" is displayed only for the last-used path, run the following commands, and then restart the host:
  - esxcli host-connection-option system module parameters set -m=hti_psp_hdlm_exlio -p reportWorkingPaths=1
  - esxcli host-connection-option system module parameters set -m=hti_psp_hdlm_exlbk -p reportWorkingPaths=1
  - esxcli host connection option system module parameters set -m=hti_psp_hdlm_exrr -p reportWorkingPaths=1

  This setting is enabled as long as a new installation of ESXi is not performed.
  Note that if you specify 2 for reportWorkingPaths in the preceding commands, "Active(I/O)" is displayed as the path status for all active paths. You can check the setting values for reportWorkingPaths by using the following commands:
  - esxcli host-connection-option system module parameters list -m=hti_psp_hdlm_exlio
  - esxcli host-connection-option system module parameters list -m=hti_psp_hdlm_exlbk
  - esxcli host-connection-option system module parameters list -m=hti_psp_hdlm_exrr

  Values that can be specified for reportWorkingPaths:

  - Null character or 2: Display "Active(I/O)" for all active paths.
  - 1: Display "Active(I/O)" for the last-used path.

  (Note that if you change this setting, the new setting value becomes valid after the host is restarted.)

- When you remove a remote client, a dialog box displaying "Location is not available." might be output. However, the processing to remove it performs properly. Select the OK button to close the dialog box.
- When path failures occur frequently due to hardware failures, such as HBA, or the SCSI reserve for a shared disk, many HDLM path failure messages are output to the system log, which might impact system log performance. To avoid performance degradation of the system log, we recommend that you enable the path failure message suppression function. For details, see Path failure message suppression function in the Hitachi Dynamic Link Manager (for VMware®) User Guide.
- After the host is restarted, LUs that apply the DirectPath I/O function are not managed by HDLM.
- When running the dlnkmgr command is slow, it might be due to a delay in the Connect-VIServer cmdlet of VMware PowerCLI. Regarding delays in Connect-VIServer, Broadcom Inc. posts the following workaround (clearing two options related to checking certificates in internet properties) on its forum, so review your settings as follows:

1. In the Control Panel or Internet Explorer, open Internet Options.
2. Click the Advanced tab.
3. croll down to Security.
4. Clear the checkbox for the following options:
   - Check for publisher's certificate revocation.
   - Check for server certificate revocation.
5. Click OK.

- Before HDLM is installed, the esxcli storage nmp device list command explicitly outputs "action_OnRetryErrors=off" for devices for which the action_OnRetryErrors parameter is not defined, but after HDLM is installed, "action_OnRetryErrors=off" is not output. However, the behavior for devices for which the action_OnRetryErrors parameter is not defined is the same as if "action_OnRetryErrors=off" is defined. After HDLM is removed, "action_OnRetryErrors=off" is output for devices for which the action_OnRetryErrors parameter is not defined.
- After an upgrade installation is performed from version HDLM 9.0.1-00 or earlier, if the ESXi host is not restarted and an HDLM command or the dlmperfinfo utility is executed on the remote management client, HDLM behaves as described in the following table. Immediately restart the host after performing an upgrade installation to avoid the following behaviors.

#	Command or Utility	Operation	Example of behavior and error messages that are output
1	dlnkmgr	view -sys	For 9.0.1-00 or earlier, KAPL01180-E is output, but KAPL01181-E is output in this version 9.0.3-00 instead of KAPL01180-E.

			PROMPT> dlnkmgr -s host-name -u user-name -p password view -sys KAPL01181-E: The HDLM driver is not installed correctly.
2	dlnkmgr	view -path	For 9.0.1-00 or earlier, the command ended normally, but KAPL01019-W is output in this version 9.0.3-00. PROMPT> dlnkmgr -s host-name -u user-name -p password view -path KAPL01019-W: The target path was not found.
3	dlnkmgr	online/offline	For 9.0.1-00 or earlier, the command ended normally, but KAPL01019-W is output in this version 9.0.3-00. PROMPT> dlnkmgr -s host-name -u user-name -p password online KAPL01019-W: The target path was not found.
4	dlnkmgr	clear	For 9.0.1-00 or earlier, the command ended normally, but KAPL01149-E is output in this version 9.0.3-00. PROMPT> dlnkmgr -s host-name -u user-name -p password clear KAPL01149-E: An attempt to connect to the HDLM driver (HTI_HDLM_SATP) has failed.
5	dlnkmgr	set -iem	For 9.0.1-00 or earlier, the command ended normally, but KAPL01149-E is output in this version 9.0.3-00. PROMPT> dlnkmgr -s host-name -u user-name -p password set -iem on KAPL01149-E: An attempt to connect to the HDLM driver (HTI_HDLM_SATP) has failed.
6	dlmperfinfo	-	For 9.0.1-00 or earlier, the utility ended normally, but KAPL13046-W is output in this version 9.0.3-00. PROMPT> dlmperfinfo -s host-name -u user-name -p password -c 1 -i 60 KAPL13046-W: No path is managed by HDLM.

Documentation

Available documents

Document name	Document number	Issue date
Hitachi Dynamic Link Manager (for VMware®) User Guide	MK-92DLM130-35	May 2026

Documentation errata

None.

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