

**Hitachi Storage Adapter for  
Microsoft® Windows  
PowerShell  
v05.4.0  
Release Notes**

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### About This Document

This document provides the latest information about the Hitachi Storage Adapter for Microsoft® Windows PowerShell software version 05.4.0 or later. It includes information that was not available at the time the technical documentation for this product was published and known problems and solutions.

Revision	Date
RN-99DF8229-21	September 2014

## Intended Audience

This document is intended for customers and Hitachi, Ltd. partners who license and use the Hitachi Storage Adapter for Microsoft® Windows PowerShell software.

## Getting Help

The Hitachi Data Systems Support Center staff is available 24 hours a day, seven days a week. Provisions for patches and fixes are restricted to normal business hours, 8 a.m. to 5 p.m. PST.

If you need technical support, log on to the Hitachi Data Systems Portal for contact information: <https://portal.hds.com>. If you purchased this product from an authorized Hitachi Data Systems reseller, contact that reseller for support.

Before calling the Hitachi Data Systems Support Center, please provide as much information about the problem as possible, including:

- The circumstances surrounding the error or failure.
- The exact content of any error message(s) displayed on the host system(s).

## System Requirements

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**Note**

This release supports the software and hardware listed below. Hardware or software that is not listed in the table(s) below is not supported in this release.

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Item	Requirements
<b>Windows operating system</b>	<ul style="list-style-type: none"> <li>• Microsoft® Windows Server 2008 R2</li> <li>• Microsoft® Windows Server 2008 R2 Core</li> <li>• Microsoft® Windows Server 2008 R2 SP1</li> <li>• Microsoft® Windows Server 2012 Standard</li> <li>• Microsoft® Windows Server 2012 DataCenter</li> <li>• Microsoft® Windows Server 2012 R2 DataCenter</li> <li>• Microsoft® Windows Server 2012 R2 DataCenter with Updates</li> </ul>
<b>Hitachi storage</b>	<ul style="list-style-type: none"> <li>• Hitachi Unified Storage (HUS)</li> <li>• Virtual Storage Platform (VSP)</li> <li>• Hitachi Unified Storage VM (HUS VM)</li> <li>• HNAS</li> <li>• HCP</li> <li>• VSP G1000</li> </ul>

## Software and Hardware Support

### Operating Systems

OS version	Supported
Microsoft® Windows Server 2008 R2 Standard/Enterprise x64 edition with SP1	X
Microsoft® Windows Server 2008 R2 Standard/Enterprise x64 edition	X
Microsoft® Windows Server 2008 Server Core R2	X
Microsoft® Windows Server 2012 Standard	X
Microsoft® Windows Server 2012 Datacenter	X
Microsoft® Windows Server 2012 Datacenter R2	X
Microsoft® Windows Server 2012 Datacenter R2 with Updates	X

## Virtualization Environment\*

\* Create ShadowCopy of Guest OS

Virtualization Software	OS	FC	iSCSI
VMware ESX Server 5.0 and 5.1	Guest OS		X
Windows 2008 R2 Hyper-V	Host OS	X	X
	Guest OS		X
Windows 2012 R2 Hyper-V	Host OS	X	X
	Guest OS	X	X

## Device Manager

Device Manager	Supported
Device Manager version 8.0 or newer	X

## Storage Model

Model	Micro version	Supported
Hitachi HUS 110/130/150	0977/H-S or newer	X
Virtual Storage Platform	70-06-21-00/00 or newer	X
HUS-VM	73-03-09-00/00 or newer	X
VSP G1000	80-01-42-00/00 or newer	X
HNAS Two-Node Cluster File server (Model: 3090 G2 and 4100)	12.1	X
HCP	5.0.0 and 6.1.1	X

## Copy P.P.

Category	P.P.	Supported
HUS, VSP, HUS-VM, VSP G1000	Hitachi ShadowImage in-system replication	X
VSP	Hitachi Copy-on-write Snapshot	X
HUS, VSP, HUS-VM, VSP	Hitachi TrueCopy	X

Category	P.P.	Supported
G1000		
VSP, HUS-VM, VSP G1000	Hitachi Universal Replicator	X
HUS, VSP, HUS-VM, VSP G1000	Hitachi Thin Image Snapshot Software	X

## Copy Configuration

Configuration	Supported
1-to-1	X
1-to-N	X

## Host Interface

Interface	Supported
FC	X
iSCSI	X

## Volume Type

Type	Supported	Note
Normal	X	
HDP	X	ShadowImage operations only

## HCP Requirement\*

\*For HCP module only

HCP Version	Supported
5.0.0	X
6.1.1	X

# Changes in This Release

## New Features

- Added support for structured output for XML for 31 cmdlets.
- Added structured output to conform to the PowerShell standard column-based output for 27 cmdlets.
- Added support for Microsoft® Windows 2012 DataCenter R2 with Updates.
- Added support for VSP G1000 HUVm-HA.
- Added support for new HCP 6.1.1 GA version.
- Added support for new HNAS 12.1 GA version.

## Known Problems

CR No.	Description
19831	The xml output doesn't work when specified with the version switch for some of the cmdlets.
20555	Add-StorageDevice does not check for HorcmInstanceID and StorageDeviceIP once the storage is added
20556	Add-StorageDevice adds storage device even when HORCM Instance of other storage is specified
20635	"The API call failed" error need to be categorized specific to error
20783	vLu details for GAD volume is not same in both Storages having GAD pair
	<p>When account authentication is enabled in HUS subsystem, permission to modify authority may be withdrawn from one user when another user logs into the subsystem and acquires it. This results in seemingly arbitrary failures of Hitachi Storage Adapter for Microsoft® Windows PowerShell. For more information, refer to the Resource Operation Authorities section of the Hitachi TagmaStore Adaptable Modular Storage and Workgroup Modular Storage Account Authentication User's Guide, revision MK-96DF797-02.</p> <p>Enabling account authentication for HUS subsystem is not recommended.</p>

CR No.	Description
	<p>The name a tenant is restricted to 48 characters . However, the fully qualified Tenant Name ( &lt;TenantName&gt;.&lt;HCP Server Name&gt; ) is limited to 63 characters.</p> <p>The name for a namespace is limited to 63 characters. Considering the limitation of fully qualified Tenant name , the fully qualified name of a namespace ( &lt;NamespaceName&gt;.&lt;TenantName&gt;.&lt;HCP ServerName&gt; ) is 127 characters.</p>
20927	<p>Create-directory does not work after a change-directory is issued without specifying directory name.</p> <p>In order to use create-directory hence close the session and start a new session.</p>

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