

Hitachi Command Director v8.1.1 Release Notes

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About this document

This document, RN-90HCMD003-19, published 12/2014, provides late-breaking information about Hitachi Command Director v8.1.1. It may also include information that was not available at the time the technical documentation for this product was published, as well as a list of known problems and possible solutions.

Intended audience

This document is intended for customers and Hitachi Data Systems partners who license and use Hitachi Command Director.

Getting help

The Hitachi Data Systems Support Center staff is available 24 hours a day, seven days a week. To reach us, please visit the support website at <http://www.hds.com/services/support/> for current telephone numbers and other contact information. If you purchased this product from an authorized HDS reseller, contact that reseller for support.

About this release

These release notes cover HCmD v8.1.1. This version adds new features, enhancements, and fixes a variety of issues.

New features and important enhancements

This section describes the new features and enhancements included in HCmD v8.1.1.

- Support for creating and managing applications based on VMware datastores. Applications can be created automatically based on VMware datastores and then monitored in application reports. The applications can also be managed like any other application.
- Support for removing hosts, storage arrays, and related data. The CLI includes utilities for removing one host or array at a time, or you can remove a list of one or the other.
- Support for Command Director server on Red Hat Enterprise Linux v6.6 and v7.0, as well as on Oracle Enterprise Linux v6.6 and v7.0.
- Support for Agent for RAID Extension on Red Hat Enterprise Linux v5.11 and v7.0 and on Oracle Enterprise Linux v7.0.

Supported scalability limits

Hitachi Command Director can scale up to 1 M volumes and 20,000 applications. The following table lists the HCmD resources and their maximum values that HCmD supports.

Resource	Limit
Storage system	
Number of Volumes	1,024,000, with monitoring of up to 50%
Number of Paths	2,048,000
Number of Storage systems	50
Hosts	

Resource	Limit
Number of Servers ¹	10,000
Other	
Number of LUN Owners	20,000
Number of Applications	20,000

Issues resolved in HCmD v8.1.1

The following table lists HCmD issues that have been resolved in this release. The issues are listed in order by defect ID.

Defect ID	Description
1560	Deleting a Storage Domain from the Tiered Storage Manager does not remove the corresponding tier information from HCmD reports.
1621	HCmD displays tier information from an old mapping (connection settings) of Tiered Storage Manager in all reports that include tier information.
7615	HCmD CLI command fails to alert the user when an empty output file (CSV) is created, for example, when no matching records were found or a negative value was provided to a report metric.
8633	Drilldown reports from the Parity Group Utilization report and Pool Capacity by Storage Systems report display incorrect report titles when exported to Excel.
15459	Incorrect node is displayed under the cluster folder leaf level when one of the HNAS cluster nodes has a failure status.

Known Issues

The following table lists known issues in the current release of HCmD. The issues are listed in order by Defect ID.

Defect ID	Problem	Workaround/Comments
1621	HCmD displays tier information from an old mapping (connection settings) of Tiered Storage Manager in all reports that include tier information.	No workaround.
2512	Tier names are missing in the Top 10 Tiers by Storage Composition Report available in the Report gallery.	No workaround.
2890	HCmD does not support VMs on Hyper-V and ESX server with direct-attached volumes.	Unsupported in this release.

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In configurations that approach the upper range of the host limit, the number of supported volumes could be less than stated.

Known Issues

Defect ID	Problem	Workaround/Comments
2913	HCmD installer fails to detect an already used port during installation. HCmD fails to start after installation.	No workaround.
2945, 2992,3005	Capacity values and pool information displayed in the HNAS Pool Summary report and IO Utilization Trend report, and that in the System Management Unit (SMU) of Hitachi NAS Platform don't match.	No workaround.
3263	The Physical Server Inventory report available in the Report gallery fails to display CPU and Memory information for ESX servers.	No workaround.
3264	Total capacity reported in the Physical Server Inventory report for an ESX server displays the sum of VMDK capacity information instead of total capacity of the ESX server.	No workaround.
3290	The File Servers view can display stale entries of single HNAS nodes that were later converted to clusters.	Use the nodes within clusters in the File Servers view for reporting and analysis.
3291, 3379	The HNAS Capacity Overview report on the global dashboard reports disk capacity irrespective of the disk status; whether active or access denied.	No workaround.
3348	In the I/O Utilization Trend report, when the DTR value is very low the Y-axis does not plot the values correctly.	No workaround.
3394	The Physical Server Inventory report may not provide information about HBA count, CPU count, and memory information for HP-UX hosts.	Make sure all relevant libraries that provide this information is available on your HP-UX host.
3420	The Pool Capacity trend report (accessible from the Pool Capacity by Storage Systems gallery report) fails to display any information when the storage system has an unknown value for the disk type in the Journal pool tier.	No workaround.
3576	The Total Throughput Trend report may display 0 for data received through Fibre Channel (FC In) for HNAS 7.0 node.	No workaround.
5250	Storage System Collectors for Device Manager cannot be changed from non SSL to SSL mode.	Remove the existing Storage System Collector and re-register the collector in a secure mode using the SSL check box.
6431	The Application Response Time Trend report shows gaps (data holes) in the graph.	No workaround.
6679, 6903	When a new or different SLO profile (other than the default) is applied to an application, the SLO IU report displays inconsistent data for the first data point.	Use the Data time slider on the SLO IU to select a different data time to display correct data.

Known Issues

Defect ID	Problem	Workaround/Comments
6917	The Storage System Capacity Overview report does not display device capacities for 2-way MIR devices when created with 'Save device' option for VMAX systems.	No workaround.
7007	Unable to reset the applied criteria to the Top 20 Busiest Ports report.	Click Refresh in the report viewer, and then specify the report criteria.
7186	HCmD fails to gather data from any tier with volumes that were added manually. This affects all tier-related reports.	No workaround.
7260	After upgrade, the <i>tomcat.log</i> displays a severe priority message about memory leak, which you can safely ignore.	Ignore the message.
8910	The CLI command help (man page) displayed with the -h option does not specify default or allowed values for command parameters.	No workaround.
8937	In the LUN Owner settings window, an information dialog alerting the user about the refresh of LUN Owner information triggered by the storage system refresh appears irrespective of whether any volume is selected for exclusion or inclusion.	Ignore this alert, and click OK to close the information dialog.
8995	The Volume Manager Group report may show a negative value for Free Capacity. This can happen data has not gathered from storage systems where volumes are provisioned.	Ensure that all storage systems are gathered properly.
8999	Unable to sort these columns in the Storage Utilization drilldown reports: Capacity and Consumed Capacity columns in the Thin Volumes tab of the Pool Utilization report.	No workaround.
10203, 11451	For HUS 130 and HUS 150 storage systems with dual core processors, HCmD does not display the port processor's utilization or performance rate in the Max Busy % column of these reports in the Report gallery: <ul style="list-style-type: none"> • Storage Port Workload • Top 20 Busiest Storage System Ports 	No workaround.
11564	No performance data is gathered for HNAS nodes when the node and cluster names do not match.	No workaround.

Known Issues

Defect ID	Problem	Workaround/Comments
11665	<p>Unable to launch Tuning Manager performance report after HCS and HCmD components are upgraded to the current release. The affected reports in HCmD are:</p> <ul style="list-style-type: none"> • Volume List report in the SLO Investigation Unit. • Top 20 Most or Least Busy Volumes report from the performance report gallery. 	Log out of HCmD UI, restart the Command Director server (Hitachi Command Director) service, and log back on to HCmD UI.
12827, 12900	HCmD does not restrict users that are successfully logged on from accessing the HTnM performance reporter regardless of their access restrictions to the performance reporter.	No workaround.
12943	<p>The Storage Allocation Trend report accessible from the All Applications and custom business views does not display trend information when you select to view data for less than a day using the Scroller.</p> <p>This issue occurs only when there is less than two days of capacity data available in your environment.</p>	No workaround.
12944	<p>The Storage Allocation Trend report accessible from the All Applications and custom business views displays invalid date when you select to view data for less than a day using the Scroller.</p> <p>This issue occurs only when there is less than two days of capacity data available in your environment.</p>	No workaround.
15502	A compatibility error condition is not properly reported when an upgrade to HCmD 7.6 is performed while using an unsupported version of Agent for RAID Extension.	Update the Agent for RAID Extension to the required version. Refer to the <i>Hitachi Command Director Installation and Configuration Guide</i> .
16621, 21886	The error message "Hitachi Command Director encountered some unknown exception" appears intermittently.	Some Adobe FlashPlayer® versions can be unstable. Downgrade to one version lower. If the problem still persists, upgrade to the latest version of Adobe FlashPlayer
16876	Certain special characters used in HNAS file system/share/pool names and comments are not currently displayed by Hitachi Command Director.	Avoid using special characters in file system/share/pool names and comments.
17294	For EMC storage systems, the "Total Internal" Capacity does not match the sum of the "Internal Used" Capacity and "Internal Free" capacity.	No workaround.

Known Issues

Defect ID	Problem	Workaround/Comments
17307	Under some conditions, the EMC Volume Type is not shown in the Chargeback Overview report generated from the CLI.	No workaround.
19162	The # LDEVs column in the HNAS Pool Summary report cannot be populated with the appropriate value, as indicated by a dash (-).	This issue is due to an HNAS configuration problem that occurs when a node in a multiple cluster becomes inactive and its configuration information is copied to another node during a fail over. If the node is then brought up in stand-alone mode, the configuration data is not accurately updated.
19425	After a version upgrade, previously established SSL settings are not retained, thus preventing users from logging on to Hitachi Command Director.	Reconfigure the SSL settings.
21810	In the ESX Server VMDKs report, the VM Instance IP Address is blank when the VM Instance has an IP Address.	No workaround.
21840	Use of special characters or spaces in request causes REST API exception.	Workaround: In place of the special character, use the percentage symbol (%) followed by the hexadecimal value of the special character. Example: In place of "#", use "%23".
21865	In the Volume Manager Group report, the incorrect capacity is shown for provisioned volumes. There is a mismatch between volume size seen as part of DISKPART and capacity reported in the Volume Manager Group report.	The mismatch is because FsDataGather generates different capacity than DISKPART command for a volume on which the file system is not created or for a volume which is unmounted. There is no workaround.
21869	When the SMI-S Storage System Collector is enabled, SYMMETRIX Storage is not enabled.	Enable SYMMETRIX storage manually.
21890	File systems created with LVM volume manager and with a - (hyphen) in the LV name are not displayed in the Storage Utilization report for Linux hosts.	Rename the LV.

Known Issues

Defect ID	Problem	Workaround/Comments
21950	In Linux, following upgrade to Agent for RAID and Agent for RAID Extension to v8.0 and upgrade of Command Director to v8.0, performance data is not available.	<p>Navigate to Agent for RAID Extension directory:</p> <pre>cd /opt/jp1pc/agtd/AgentforRAIDExtension</pre> <p>Get process id:</p> <pre>cat run.pid</pre> <p>Stop the process:</p> <pre>kill -9 <number from run.pid></pre> <p>Delete prior version extracted files:</p> <ol style="list-style-type: none"> 1. cd/opt/jp1pc/agtd/AgentforRAIDExtension/tomcat/webapps/ROOT 2. rm -rf * <p>Extract the new files:</p> <ol style="list-style-type: none"> 1. cd /opt/jp1pc/agtd/AgentforRAIDExtension/conf 2. unzip -v orion-regulus-7.3.0-SNAPSHOT.war -d ../tomcat/webapps/ROOT/ <p>Start new process:</p> <ol style="list-style-type: none"> 1. cd /opt/jp1pc/agtd/AgentforRAIDExtension/tomcat/bin 2. sh startup.sh
21954	If reports are scheduled for a manually created application, reports continue to be sent after the application is deleted.	Delete the scheduled report from Scheduled Reports in the Administration tab.
22375	The following error code displays when a user attempts to log in: "The User ID or password are invalid"	The error will display if the user is not assigned a User Group in Device Manager. Assign the user to a User Group.
22506	Command Director CLI cannot communicate with Command Director server when Command Director is installed on an SSL port.	<p>Follow this procedure to enable a secure connection:</p> <ol style="list-style-type: none"> 1. Create a keystore locally under the CLI folder. 2. Export the HCmD SSL certificate from the HCmD server keystore. 3. Import the exported certificate exported in step 2 into the CLI keystore created in step 1.
22921	Historical data does not exist for chargeback reports after removing a storage array.	<ul style="list-style-type: none"> • The "Application Storage Allocation by Tier" report shows historical data only for active applications. If the application is deleted or the storage system is removed using the CLI removal utility, the application(s) will not persist in this report. • The "Application Storage Allocation by Pool" report shows historical data only for active applications. If the application is deleted or the HDP pool is deleted or storage system is removed using the CLI removal utility, the corresponding historical data will not display.

Defect ID	Problem	Workaround/Comments
22934	After removing a storage array, certain saved reports are not removed.	<p>Certain reports may display data for a single storage system. If these reports are saved and the storage system is later removed, the saved reports will persist. Reports include:</p> <ul style="list-style-type: none"> • Top 20 most or least busy volumes • Application capacity by storage system <p>Workaround: Manually delete the reports.</p>
23009	Following upgrade, Command Director is not able to add a remote Host Collector where Host Collector is installed where there is no 64bit VS Runtime.	Install the Microsoft Visual C++ Redistributable Package (x64).

About HCmD database backup/restore

This release of HCmD does not provide an option to back up and restore the database. This is due to a limitation of the MariaDB[®] Server native backup utility **mysqldump** that does not properly handle backup of databases of large sizes.

Users can manually backup and restore the database by using the following steps.

To perform a manual database backup:

1. Shut down the **Hitachi Command Director Server** and **Hitachi Command Director Database** services from the Services panel.
2. Copy the <HCmD_Installation_Folder>\data\db\MySQL folder to a different location.
3. Start up the **Hitachi Command Director Server** and **Hitachi Command Director Database** services from the Services panel.

To perform a manual database restore:

1. Shut down the **Hitachi Command Director Server** and **Hitachi Command Director Database** services from the Services panel.
2. Replace the <HCmD_Installation_Folder>\data\db\MySQL folder with one of the saved copies (during backup).
3. Start up the **Hitachi Command Director Server** and **Hitachi Command Director Database** services from the Services panel.

Documentation

This section lists the documents and their part numbers that were revised for this release and other notes about using Command Director Documentation.

Related documents

Hitachi Command Director User Guide (MK-90HCMD001)

Hitachi Command Director Installation and Configuration Guide (MK-90HCMD002)

Hitachi Command Director CLI Reference Guide (MK-90HCMD004)

Hitachi Command Director API Reference Guide (MK-90HCMD005)

Hitachi Command Suite System Requirements (MK-92HC209)

Hitachi Command Director Release Notes (this document)

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