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Command Control Interface Release Notes Version 01-67-03/01

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About this document

This document (RN-90RD7194-40, May 2022) provides information about the Command Control Interface (CCI) software product, including supported systems, new features and important enhancements, fixed problems, and information that was not available when the documentation for this product was published.

Intended audience

This document is intended for customers and Hitachi Vantara partners who license and use Command Control Interface.

Getting help

Hitachi Vantara Support Connect is the destination for technical support of products and solutions sold by Hitachi Vantara. To contact technical support, log on to Hitachi Vantara Support Connect for contact information: https://support.hitachivantara.com/en_us/contact-us.html.

Hitachi Vantara Community is a global online community for customers, partners, independent software vendors, employees, and prospects. It is the destination to get answers, discover insights, and make connections. **Join the conversation today!** Go to community.hitachivantara.com/, register, and complete your profile.

About this release

This release contains support for Extent Space Efficient (ESE) volumes, the added option for LDEV ID setting, the added option for Ops Center Protector, and the QoS function for VSP E series. For complete lists of new features and fixes, see New features and important enhancements and Fixed problems.

This document describes the differences between the following versions:

Version	CCI version	Required microcode/firmware for new features
New version	01-67-03/01	VSP 5000 series: 90-08-41-00/00 or later VSP E series: 93-06-41-x0/00 or later
Previous version	01-66-03/01	VSP 5000 series: 90-08-21-00/00 or later

Applicable products

The information described in this document applies to the following products:

#	Product name
1	Command Control Interface for HP-UX
2	Command Control Interface for Windows NT
3	Command Control Interface for Windows NT/x64
4	Command Control Interface for Solaris
5	Command Control Interface for Solaris/x86
6	Command Control Interface for AIX®
7	Command Control Interface for Tru64 UNIX (Digital UNIX)
8	Command Control Interface for Linux
9	Command Control Interface for Linux/IA64
10	Command Control Interface for IRIX
11	Command Control Interface for OpenVMS
12	Command Control Interface for OpenVMS/IA

Supported storage systems

This version of Command Control Interface supports the following storage systems:

Storage system	Minimum microcode/firmware
Virtual Storage Platform 5200, 5600, 5200H, 5600H	90-08-01-00/00 or later
Virtual Storage Platform 5100, 5500, 5100H, 5500H	90-01-42-00/00 or later
Virtual Storage Platform G1500, F1500	80-05-01-00/00 or later
Virtual Storage Platform G1000	80-01-01-00/00 or later
Virtual Storage Platform	70-01-01-00/01 or later
Virtual Storage Platform E590, E790	93-03-22-40/00 or later
Virtual Storage Platform E590H, E790H	93-05-02-40/00 or later
Virtual Storage Platform E990	93-01-02-60/00 or later
Virtual Storage Platform E1090, E1090H	93-06-21-80/00 or later
Virtual Storage Platform G130	88-02-01-00/00 or later
Virtual Storage Platform G/F350	88-01-02-20/00 or later
Virtual Storage Platform G/F370, G/F700, G/F900	88-01-02-60/00 or later
Virtual Storage Platform G200	83-01-01-20/00 or later
Virtual Storage Platform G/F400, G/F600	83-01-01-40/00 or later
Virtual Storage Platform G/F800	83-01-01-60/00 or later
Virtual Storage Platform N400, N600	83-06-01-40/00 or later
Virtual Storage Platform N800	83-06-01-60/00 or later
Unified Storage VM	73-01-01-00/00 or later

Supported hardware platforms and operating systems

The following table lists the supported hardware platforms and operating system (OS) compatibility for the Command Control Interface installation environment.

- All OS service packs, update programs, and patches are supported unless otherwise noted.
- Command Control Interface does not support hardware platforms that are not supported by the listed operating system.

Operating system	Platform
Solaris 10/11	SPARC
Solaris 10/11	IA32/x64
OL6.x (6.2 or later)	IA32/x64
OL7.x (7.3 or later)	x64
HP-UX 11.1x/11.2x/11.3x	PA-RISC
HP-UX 11.2x/11.3x	IA64
OpenVMS 8.x (8.3 or later)	IA64
AIX® 7.1	POWER
z/Linux (SLES 8/9)	zSeries® or S/390® Processor
Windows Server 2012	x64
Windows Server 2012R2	x64
Windows Server 2016	x64
Windows Server 2019	x64
Windows Server 2022	x64
RHEL 6	IA32/x64
RHEL 7	x64
RHEL8	x64

Operating system	Platform
SLES11	x64
SLES12	x64
SLES15	x64
Ubuntu 14.x (14.04 or later)	x64
Ubuntu 16.x (16.04 or later)	x64

The following table lists the supported VMs and hardware for the Command Control Interface installation environment.

- All service packs, update programs, and patches of VMs are supported unless otherwise noted.
- Command Control Interface supports an OS listed in the OS compatibility table as a guest OS on which you can install Command Control Interface only when the VM vendor supports the OS.

VM vendor	Product/Version
VMware	ESXi 6.x/7.x
Microsoft	Windows Server 2012/2012R2 Hyper-V
Oracle	VM Server for SPARC 3.1
HP	HPVM 6.3

New features and important enhancements

#	Description
1	Added support for Extent Space Efficient (ESE) volumes. Target storage systems of the change: VSP 5000 series. New command parameter (indicated in italic below): `raidcom modify ldev -ldev_id <ldev#> {-status <status> [<level>] [-forcible [-password <One Time Password>]] | -ldev_name <ldev naming> | -mp_blade_id <mp#>| -ssid <value> | -command_device < y/n >[Security value] | -quorum_enable <serial#> <id> -quorum_id <quorum id>| -quorum_disable| -alua {enable|disable} | -capacity_saving <capacity saving> | capacity_saving_mode <saving mode> | -compression_acceleration {enable | disable} -request_id auto | -upper_throughput_io <upper throughput io> -request_id auto | -upper_data_trans_mb <upper data trans mb> -request_id auto | -upper_alert_time <upper alert time> -request_id auto | -lower_throughput_io <lower throughput io> -request_id auto | -lower_data_trans_mb <lower data trans mb> -request_id auto | -lower_alert_time <lower alert time> -request_id auto | -response_priority <#priority> -request_id auto | -response_alert_time <response alert time> -request_id auto |` *`-ese {enable|disable} -request_id auto`* `}`

2	Added an option for the asynchronous command for virtual LDEV ID setting.
	Target storage systems of the change: VSP 5000 series, VSP E series.
	New command parameter (indicated in italic below):
	`raidcom map resource {-ldev_id <ldev#> -virtual_ldev_id <ldev#> [-ssid <ssid>] [-emulation <emulation>]` *`[-request_id auto]`*`| -port <port#> -virtual_port <port#>}`
	`raidcom unmap resource {-ldev_id <ldev#> -virtual_ldev_id <ldev#>` *`[-request_id auto]`*`| -port <port#> -virtual_port <port#>}`

3	Added an option for Ops Center Protector to collect the device group information. Target storage systems of the change: VSP 5000 series, VSP E series.
4	Added support for the QoS function for VSP E series. Target storage systems of the change: VSP E series New command parameter (indicated in italic below): `raidcom modify ldev -ldev_id <ldev#> {-status <status> [<level>] [-forcible [-password <One Time Password>]] | -ldev_name <ldev naming> | -mp_blade_id <mp#>| -ssid <value> | -command_device < y/n >[Security value] | -quorum_enable <serial#> <id> -quorum_id <quorum id>| -quorum_disable| -alua {enable|disable} | -capacity_saving <capacity saving> | -capacity_saving_mode <saving mode> | -compression_acceleration {enable | disable} -request_id auto |` *`-upper_throughput_io <upper throughput io> -request_id auto`* `|`

#	Description
	-upper_data_trans_mb <upper data trans mb> -request_id auto | *-upper_alert_time <upper alert time> -request_id auto* | *-lower_throughput_io <lower throughput io> -request_id auto* | *-lower_data_trans_mb <lower data trans mb> -request_id auto* | *-lower_alert_time <lower alert time> -request_id auto* | *-response_priority <#priority> -request_id auto* | *-response_alert_time <response alert time> -request_id auto* | `-ese {enable|disable} -request_id auto }` `raidcom get ldev {-ldev_id <ldev#> … [-cnt <count>] | -grp_opt <group option> -device_grp_name <device group name> [<device name>] | -ldev_list <ldev list option> [-journal_id <journal id> | -pool_id <pool id> | -parity_grp_id <parity group id> | -mp_blade_id <mp#> | -clpr_id <clpr#>]} [-key {`*qos|qos_monitor*`|…} *[-time_zone <time zone>]*] [{-check_status | -check_status_not} <string> … [-time <time>]] [-tier <tier number>]`

Fixed problems

None

Installation prerequisites

Before using any of the following software, you must install the RAID Manager/LIB that is located in the `../RL` directory on the installation CD.

- RAID management software provided by Hitachi or other vendors
- BMC Enterprise Snapshot software

Documentation

This release includes the following user documentation:

Title	Number and revision	Issue date
Command Control Interface Installation and Configuration Guide	MK-90RD7008-34	May 2022
Command Control Interface Command Reference	MK-90RD7009-54	May 2022
Command Control Interface User Guide	MK-90RD7010-55	May 2022

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