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# Command Control Interface Release Notes Version 01-61-03/01

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#### **About this document**

This document (RN-90RD7194-34, February 2021) 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**

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#### About this release

This release contains the support for I/O Preference Mode When Remote Path Failed and the addition of option to prevent connection to external storage system from being cut. For complete lists of new features and fixes, see <a href="New features and important">New features and important</a> <a href="mailto:enhancements">enhancements</a> and <a href="Fixed problems">Fixed problems</a>.

This document describes the differences between the following versions:

Version	CCI version	Required microcode/firmware for new features
New version	01-61-03/00	VSP 5000 series: 90-06-01-00/00 or later  VSP G1x00, VSP F1500: 80-06-84-00/00 or later  VSP E series: 93-04-01-x0/00 or later  VSP G130, G/F350, G/F370, G/F700, G/F900: 88-08-01-x0/00 or later  VSP G200, G/F400, G/F600, G/F800: 83-05-40-x0/00 or later  VSP N series: 83-06-12-x0/00 or later
Previous version	01-59-03/00	VSP E590, E790: 93-03-22-40/00 or later VSP E990: 93-03-22-60/01 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 5100, 5500, 5100H, 5500H	90-01-42-00/00 or later	
Virtual Storage Platform E590, E790	93-03-22-40/00 or later	
Virtual Storage Platform E990	93-01-02-60/00 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	

Storage system	Minimum microcode/firmware
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
Virtual Storage Platform G1000	80-01-01-00/00 or later
Virtual Storage Platform G1500, F1500	80-05-01-00/00 or later
Virtual Storage Platform	70-01-01-00/01 or later
Universal Storage Platform V/VM	60-01-30-00/00 or later
TagmaStore USP/NSC	50-09-37-00/00 or later
Freedom Storage Lightning 9980V	21-10-00 or later
Freedom Storage Lightning 9960	01-16-00 or later
Freedom Storage Lightning 7700E	52-47-xx 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
RHEL 6	IA32/x64
RHEL 7	x64
RHEL8	x64
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
IBM®	IBM® VIOS 2.2.0.0. (Support for only AIX® as VIOC)
Oracle	VM Server for SPARC 3.1
HP	HPVM 6.3

## New features and important enhancements

#	Description
1	Added support for I/O Preference Mode When Remote Path Failed.
	Target storage systems of the change: VSP 5000 series; VSP E series; VSP G1x00, VSP F1500; VSP G130, G/F350, G/F370, G/F700, G/F900; VSP G200, G/F400, G/F600, G/F800; VSP N series
	New option (indicated in italic below):
	<pre>paircreate { -h   -q   -z[x]   -I[H][M][instance#] or -I[TC][SI][instance#]   -g <group>   -d <pair vol="">   -d[g] <raw_device> [MU#]   -FHORC [MU#] or -FCA [MU#]   -d[g] <seq#> <ldev#> [MU#]   -f[g] <fence>[CTG ID]   -v   -c <size>   -nocopy   -nomsg   -split   [-m <mode>]   -jp <id>   -jq <id>   -js <id>   -pid <pid>   -fq <mode>   -cto <o-time>[c-time] [r-time]   -pvol(svol)[ldevgrp]  -nocsus  -pr <io preference="">}</io></o-time></mode></pid></id></id></id></mode></size></fence></ldev#></seq#></raw_device></pair></group></pre>
	<pre>pairresync { -h   -q   -z[x]   -I[H][M][instance#] or -I[TC][SI] [instance#]   -g <group>   -d <pair vol="">   -d[g] <raw_device> [MU#]   -FHORC [MU#]   -FMRCF [MU#]   -d[g] <seq#> <ldev#> [MU#]  -c <size>   -nomsg   -l   -restore</size></ldev#></seq#></raw_device></pair></group></pre>

#	Description
	New command output:
	pairdisplay -fe (The PR column is added.)
2	Added an option to prevent connection to external storage system from being dropped.
	Target storage systems of the change: VSP 5000 series; VSP E series; VSP G130, G/F350, G/F370, G/F700, G/F900; VSP G200, G/F400, G/F600, G/F800; VSP N series
	New option (indicated in italic below):
	<pre>raidcom discover external_storage -port <port> [-safety_check enable] [-discovery_external_wwn <wwn strings="">]</wwn></port></pre>
	<pre>raidcom discover lun -port <port> {-external_wwn <wwn strings="">  -external_iscsi_name <external iscsi="" name=""> -external_address <ip address=""> [-iscsi_virtual_port_id <iscsi id="" port="" virtual="">]} [-safety_check enable]</iscsi></ip></external></wwn></port></pre>
	<pre>raidcom add path -path_grp <path group#=""> -port <port> {-external_wwn <wwn strings="">  -external_iscsi_name <external iscsi="" name=""> -external_address <ip address=""> [-iscsi_virtual_port_id <iscsi id="" port="" virtual="">]} [-safety_check enable]</iscsi></ip></external></wwn></port></path></pre>
	raidcom add external_grp -path_grp <path group#=""> -external_grp_id <gnosgno> -port <port> {-external_wwn <wwn strings="">  -external_iscsi_name <external iscsi="" name=""> -external_address <ip address=""> [-iscsi_virtual_port_id <iscsi id="" port="" virtual="">]} -lun_id <lun#> [-emulation <emulation type="">] [-clpr <clpr#>] [-external_attribute migration] [-data_direct _mapping enable] [-command_device y -ldev_id <ldev#>] [-safety_check enable]</ldev#></clpr#></emulation></lun#></iscsi></ip></external></wwn></port></gnosgno></path>
3	Added an option for Hitachi Block Storage Driver to display LDEV NAA.
	Target storage systems of the change: VSP 5000 series; VSP E series; VSP G130, G/F350, G/F370, G/F700, G/F900

## **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 vendor
- BMC Enterprise Snapshot software

#### **Documentation**

This release includes the following user documentation:

Title	Number and revision	Issue date
Command Control Interface Command Reference	MK-90RD7009-47	February 2021
Command Control Interface User and Reference Guide	MK-90RD7010-49	February 2021

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