

Veritas CommandCentral™ 5.2 RU4 Release Notes

for Microsoft Windows and UNIX

5.2 RU4

CommandCentral Release Notes

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Documentation version: 5.2 RU4 REV 1

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Veritas CommandCentral™ Release Notes

This document includes the following topics:

- [Overview of CommandCentral Storage 5.2 RU4](#)
- [Upgrading to CommandCentral 5.2 RU4](#)
- [What's new in CommandCentral Storage 5.2 RU4](#)
- [Issues fixed in CommandCentral 5.2 RU4](#)
- [Known issues in CommandCentral 5.2 RU4](#)

Overview of CommandCentral Storage 5.2 RU4

CommandCentral 5.2 RU4 is an update to the CommandCentral 5.2, and later releases.

CommandCentral Storage 5.2 RU4 has new features such as EMC VPLEX virtualizer support, IBM SVC thin support, EMC VMAX FAST support, HDS Dynamic tiering support, and other enhancements.

Note: CommandCentral Storage 5.2 RU4 supports CommandCentral Storage Management Server on Solaris 10 update 9, and later versions only.

Upgrading to CommandCentral 5.2 RU4

CommandCentral 5.2 RU4 is an update to the CommandCentral 5.2 release. You can upgrade the following CommandCentral components to 5.2 RU4:

Management Server See “Upgrading the Management Server” on page 8.

Control Host See “Upgrading the Control Host” on page 9.

You can upgrade to CommandCentral 5.2 RU4 from CommandCentral versions 5.2, 5.2 RU1, 5.2 RU2, or 5.2 RU3.

Upgrade your Management Server before you upgrade any Control Hosts.

Upgrading the Management Server

You can upgrade a CommandCentral versions 5.2, or later Management Server to CommandCentral 5.2 RU4 Management Server.

To upgrade the Management Server (Solaris)

1 Log on to the Management Server as root or as a user with an ID equal to zero (UID=0).

2 Download the installation file from the Symantec FileConnect Web site:
<https://fileconnect.symantec.com>

The file is named `VRTS_CommandCentral_5.2RU4_Solaris_MS.tar.gz`.

3 Type the following commands to uncompress the tar file:

```
gunzip VRTS_CommandCentral_5.2RU4_Solaris_MS.tar.gz
```

```
tar -xf VRTS_CommandCentral_5.2RU4_Solaris_MS.tar
```

4 Go to the following directory:

```
installer_location/MS/sol_sparc
```

Where *installer_location* is the directory in which you uncompressed the tar file.

5 Type the following command to start the upgrade:

```
./CCR4_Setup.sh
```

Note: For upgrade to CommandCentral versions prior to 5.2 RU4, you need to run `installrp`. Use `CCR4_Setup.sh` only in case of upgrade to CommandCentral 5.2 RU4.

6 Follow the prompts to upgrade the Management Server.

To upgrade the Management Server (Windows)

- 1 Log on to the Management Server as a user with administrator-level privileges.
- 2 If you have not already done so, download the installation file from the Symantec FileConnect Web site:

<https://fileconnect.symantec.com>

The file is named `VRTS_CommandCentral_5.2RU4_Windows_MS.zip`.

- 3 Extract `VRTS_CommandCentral_5.2RU4_Windows_MS.zip`.
- 4 Go to the following directory:

```
installer_location\MS\win
```

Where *installer_location* is the directory in which you extracted the zip file.

- 5 Run `CCRU4_Setup.bat`.

Note: For upgrade to CommandCentral versions prior to 5.2 RU4, you need to run `MSSetup.exe`. Use `CCRU4_Setup.bat` only in case of upgrade to CommandCentral 5.2 RU4. The upgrade wizard displays a message to confirm if you have used `CCRU4_Setup.bat` to start the upgrade. In case you have not used `CCRU4_Setup.bat` to start the upgrade, click **cancel** to exit the upgrade process and then run `CCRU4_Setup.bat`.

- 6 Follow the instructions in the wizard to upgrade the Management Server.

Upgrading the Control Host

You can upgrade a CommandCentral versions 5.2, or later Control Host to CommandCentral version 5.2 RU4 Control Host.

To upgrade the Control Host (Solaris)

- 1 Log on to the Control Host as root or as a user with an ID equal to zero (UID=0).
- 2 If you have not already done so, download the installation file from the Symantec FileConnect Web site:

<https://fileconnect.symantec.com>

The file is named `VRTS_CommandCentral_5.2RU4_Solaris_CH.tar.gz`.

- 3 Type the following commands to uncompress the tar file:

```
gunzip VRTS_CommandCentral_5.2RU4_Solaris_CH.tar.gz
```

```
tar -xf VRTS_CommandCentral_5.2RU4_Solaris_CH.tar
```

- 4 Go to the following directory:

```
installer_location/CH/sol_sparc
```

Where *installer_location* is the directory in which you uncompressed the tar file.

- 5 Type the following command to start the upgrade:

```
./CCR4_Setup.sh
```

Note: For upgrade to CommandCentral versions prior to 5.2 RU4, you need to run `installrp`. Use `CCR4_Setup.sh` only in case of upgrade to CommandCentral 5.2 RU4.

- 6 Follow the prompts to upgrade the Control Host.

To upgrade the Control Host (Windows)

- 1 Log on to the Control Host as a user with administrator-level privileges.
- 2 If you have not already done so, download the installation file from the Symantec FileConnect Web site:

<https://fileconnect.symantec.com>

The file is named `VRTS_CommandCentral_5.2RU4_Windows_CH.zip`.

- 3 Extract `VRTS_CommandCentral_5.2RU4_Windows_CH.zip`.
- 4 Go to the following directory:

```
installer_location\CH\win
```

Where *installer_location* is the directory in which you extracted the zip file.

- 5 Run `CCR4_Setup.bat`.

Note: For upgrade to CommandCentral versions prior to 5.2 RU4, you need to run `CHSetup.exe`. Use `CCR4_Setup.bat` only in case of upgrade to CommandCentral 5.2 RU4. The upgrade wizard displays a message to confirm if you have used `CCR4_Setup.bat` to start the upgrade. In case you have not used `CCR4_Setup.bat` to start the upgrade, click **cancel** to exit the upgrade process and then run `CCR4_Setup.bat`.

- 6 Follow the instructions in the wizard to upgrade the Control Host.

Note: For upgrade of the Control Host in versions prior to CommandCentral 5.2 RU4, CHSetup.exe was used for Windows platform.

See “[Upgrading to CommandCentral 5.2 RU4](#)” on page 7.

What's new in CommandCentral Storage 5.2 RU4

CommandCentral Storage 5.2 RU4 includes the following new features and enhancements.

Table 1-1 New features and enhancements

Feature	Description
Support for new hardware and software	<p>CommandCentral Storage 5.2 RU4 provides added hardware and software support. For the latest support information, see the <i>CommandCentral Hardware and Software Compatibility List</i>. This document is updated regularly at:</p> <p>http://www.symantec.com/docs/TECH197393</p> <p>CommandCentral Storage 5.2 RU4 now includes support for the following:</p> <ul style="list-style-type: none">■ Agentless discovery of Solaris x64 hosts■ Arrays:<ul style="list-style-type: none">■ EMC VPLEX■ EMC VMAX FAST and HDS HDT■ IBM SVC thin support■ IBM DS5300■ Switches:<ul style="list-style-type: none">■ Brocade Network Advisor (BNA 11.2)
EMC VPLEX discovery and reporting support	<p>CommandCentral Storage 5.2 RU4 provides discovery and reporting of EMC VPLEX storage enclosures. See “VPLEX discovery support” on page 12.</p>
EMC VMAX FAST and HDS HDT discovery support	<p>CommandCentral Storage 5.2 RU4 provides support for discovery of EMC VMAX Fully Automated Storage Tiering (FAST) and Hitachi Dynamic Tiering (HDT). See “EMC VMAX FAST and HDT Discovery support” on page 12.</p>
IBM SVC thin support	<p>CommandCentral Storage 5.2 RU4 provides support for discovery and reporting of IBM SVC thin pools and pool LUNs. See “IBM SVC thin support” on page 13.</p>

Table 1-1 New features and enhancements (*continued*)

Feature	Description
Enhancements in powered off Virtual machines discovery	The VMware explorer in CommandCentral Storage 5.2 RU4 displays states of VMware virtual machines. See “Enhancements in powered off virtual machines discovery” on page 14.

VPLEX discovery support

You can use CommandCentral Storage 5.2 RU4 to configure VPLEX array for discovery.

A VPLEX array is represented as a virtual container object that contains one or more VPLEX clusters. The container object’s waterfall page provides the information about the objects that are seen by all the VPLEX clusters. The individual tabs display the details of the distributed objects. The VPLEX clusters display the details of the objects that can be seen only from the VPLEX clusters.

For VPLEX arrays, the **Overview** pane displays an additional **Nodes** table. This table lists the details of the VPLEX clusters that are associated with the VPLEX array.

Note: For VPLEX arrays, you need to apply the latest managed host hotfix (F520042923960) on the managed host to get the host-related capacities populated.

See [“What’s new in CommandCentral Storage 5.2 RU4”](#) on page 11.

EMC VMAX FAST and HDT Discovery support

FAST is a feature that provides automatic storage tiering on selected VMAX models. Hitachi Dynamic Tiering (HDT) also automates optimized use of tiered storage infrastructure. CommandCentral Storage 5.2 RU4 provides support for these two features.

In CommandCentral Storage 5.2 RU4, a new report **Array Dynamic Storage Tiering** is added under **Reporting > Storage** category. The report displays capacity distribution across tiers and the amount of storage that is consumed by the hosts. The report displays two tables showing following information:

- LUN capacity distribution across the tiers for dynamic tiering arrays
- The amount of storage that is used by the hosts

In **Thin pool details** view, you can see the details of the tiers that are part of the thin pool. Tiers table is displayed only for Hitachi Dynamic Tiering (HDT).

The information that is discovered for VMAX FAST and HDT is used to populate following two Database tables:

- **VAIL_Tier:** Contains the information about tiers.
- **VAIL_VirtualDiskTierAllocation:** Contains the information about capacity consumption of LUNs from different tiers.

See [“What's new in CommandCentral Storage 5.2 RU4”](#) on page 11.

IBM SVC thin support

IBM SVC virtual provisioning is one of the licensed features which allow more storage to be allocated to an application than is physically available. Disk drives are grouped into thin pools, that form the basis for provisioning actions. Physical storage is automatically allocated only when new data blocks are written.

CommandCentral Storage 5.2 RU4 provides support for discovery and storage utilization reporting of IBM SVC thin pools and pool LUNs and their visibility from physical to logical entity.

Note: CommandCentral Storage 5.2 RU4 provides discovery of IBM SVC 5.1.x, and later versions.

To configure IBM SVC array for discovering Thin Provisioning information

- 1 Configure the array using a credential that has SSH key configured. For array firmware versions prior to 6.3, additionally, you need to follow the steps below.
- 2 After configuring the array, stop the process `CIMVAILExplorers`.
 - On Windows:
 - Go to `InstallDir \Hal\bin`, where *InstallDir* is the installation directory.
 - Run the following command:

```
halagentcfg.exe stop-process -p CIMVAILExplorers
```
 - On Solaris:
 - Go to `InstallDir /VRTShal/bin` , where *InstallDir* is the installation directory.
 - Run the following command:

```
./halagentcfg stop-process -p CIMVAILExplorers
```

3 Open the configuration file `CIMVAILExplorers.cfg` for editing. This file is located at following location:

■ On Windows:

`installDir\commandCentralStorageData\HAL\Conf` directory, where *InstallDir* is the installation directory.

■ ON Solaris:

`/var/VRTScCs/conf/VRTShal/` directory, where *InstallDir* is the installation directory.

4 In the configuration file, go to the following section:

```
[Devices\Configured_IP_Of_Array:SMIS_Port]
```

where, *Configured_IP_Of_Array* is the IP of the array that you want to configure for thin support and *SMIS_Port* is the port number.

5 Add the following entry:

```
"HalSMISPrivateKey"="SSH_Private_key_file_location"
```

6 Save the configuration file `CIMVAILExplorers.cfg`.

7 Start the process `CIMVAILExplorers`.

■ On Windows:

■ Go to `InstallDir \Hal\bin`, where *InstallDir* is the installation directory.

■ Run the following command:

```
halagentcfg.exe start-process -p CIMVAILExplorers
```

■ On Solaris:

■ Go to `InstallDir /VRTShal/bin` , where *InstallDir* is the installation directory.

■ Run the following command:

```
./halagentcfg start-process -p CIMVAILExplorers
```

See [“What's new in CommandCentral Storage 5.2 RU4”](#) on page 11.

Enhancements in powered off virtual machines discovery

CommandCentral Storage 5.2 RU3 allowed the discovery of powered off virtual machines. In CommandCentral Storage 5.2 RU4, you can see the present state of the virtual machines. Following are the different states that can be discovered for the virtual machines:

- Powered Off
- Powered On
- Suspended
- Unknown

Issues fixed in CommandCentral 5.2 RU4

CommandCentral 5.2 RU4 includes fixes to the following issues.

For information about additional issues fixed since CommandCentral 5.2, see *CommandCentral 5.2 RU1 Release Notes*, *CommandCentral 5.2 RU2 Release Notes*, and *CommandCentral 5.2 RU3 Release Notes*.

Table 1-2 Issues that are fixed in CommandCentral 5.2 RU4

Issue	Description
2868879	Disk Groups and array LUN correlation for Unified Agents is missing.
2766043	Support not available for Brocade DCX-8510 16Gb port speed.
2745847	CommandCentral Storage is not able to discover VMware Virtual Machines.
2811869	Some of the IBM tape drives are discovered as Unidentified Adapters.
2815383	Some of the HP-EVA array environmental collectors are missing values.
2801588	Drive Type of Physical Disks is not available for EMC Symmetrix DMX and HP-XP arrays.
2801873	Total LUN Capacity of IBM XIV array is getting reported much less than Allocated LUN capacity.
2780427	Unable to unconfigure and remove Unified Agents from CommandCentral Console.
2750086	ConnectionProtocol attribute value is null for some of the Unified Agents HBAs.
2769722	Unified Agents are in Critical State in CommandCentral Storage Console.
2853118	Slow GUI performance while viewing Array LUN tab and Host Storage tab.
2875114	LUNs are missing from the CCS Database.
2869371	HALCHM takes long time to process the Data Collection Task (DCT) resulting into a DCT queue.
2744873	AIX machines storage size different under Hosts and Virtual Machines.

Table 1-2 Issues that are fixed in CommandCentral 5.2 RU4 (*continued*)

Issue	Description
2749322	Revert back licensing changes which were done for CommandCentral Storage 52RU3.
2747245	Arrays are grey under Online Storage Capacity Detail.
2741201	Symmetrix DMX ports not displayed correctly in zone information.
	Find Objects feature not working properly after upgrade to 5.2 RU3.
2725121	Some of the Virtual fabrics are shown as Physical Fabrics in CommandCentral Storage Console.
2781374	In 5.2 RU3 on Solaris, scheduled Adhoc reports that have union all clause in their sql queries generate the result in loop and do not get terminated.
2781643	Allocated SCSI Capacity column in Storage Consumption Detail report is showing zero capacity.
2812084	For AIX LPAR hosts in Host Summary table, Array Masked Storage is available but Array Claimed Storage is Null
2820931	Switches are grayed out due to some database locks.
2806521	Export CSV of UI Table does not overwrite the CSV file, if the file is saved with the default filename.
2842171	Settings > Diagnostic > Logs does not list any data.
2819385	Page Navigation and sorting in UI Tables results in delayed page load.
2869538	Unhandled java exception error occurs after clicking on Arrya's Thin Pool Tab.
2851381	VMAX array does not collect performance statistics.
2915491	Unable to export and email Custom Reports.
2903493	HDS VSP showing negative values under Thin Pool Overhead value.
2865050	IBM XIV cannot see any zone/mapping information. None of the storage shows as allocated.
2899329	WWNs of EMC Virtual Tape Library (VTL) not recognized as targets.
2853993	Drive-type data missing for IBM DS-8000 arrays.
2900949	Waterfall chart displays more RAID group capacity than physical available.
2886751	Unnecessary information written to log during agentless discovery.

Table 1-2 Issues that are fixed in CommandCentral 5.2 RU4 (*continued*)

Issue	Description
2854743	Host consumption on VNX shows negative usage.

Known issues in CommandCentral 5.2 RU4

Following are the known issues in the 5.2 RU4 release.

Database backup option does not backup the database files when you upgrade to CommandCentral Storage 5.2 RU4

When you upgrade to CommandCentral Storage 5.2 RU4, database backup option of upgrade procedure does not back up the database files.

Workaround:

You need to manually back up the database before upgrading to CommandCentral Storage 5.2 RU4.

- Create a directory `dbsnapshot` on the disk where sufficient space is available.

- Type the following command to change your working directory:

```
C:\Program Files\VERITAS\CommandCentral Storage\Support\Tools
```

- Type the following command to back up the database in the `dbsnapshot` directory:

```
dbackup.bat dbsnapshot directory path
```

Host reboot requirement when you upgrade to CommandCentral Storage 5.2 RU4 on Windows

When you upgrade to CommandCentral Storage 5.2 RU4 on Windows, the installer sometimes asks you to reboot the host after the upgrade completes. The solution is to reboot the host to complete the upgrade process.

Erroneous exception when non-root user stops the Web Engine

CommandCentral Storage lets you grant privileges to non-root users to start and stop the Web Engine. If a non-root user stops the Web Engine using the services panel, CommandCentral Storage may throw an erroneous exception.

Workaround: Non-root users should stop the Web Engine using the `vxccs stop CCSGUI` command instead of using the Windows services panel.

LPAR discovery limitations

The following limitations apply to LPAR discovery:

- CommandCentral Storage supports only native device handles as a backing device. It does not support LVM volumes, or DMP devices.
- CommandCentral Storage does not support standard agent or agentless discovery of VIO servers.
- If you configure LPARs agentlessly, you'll need to rediscovers those hosts after the upgrade for immediate visibility of correlated data.
- Some reports may be incorrect if you use an unsupported backing device. For example, if you use an LVM volume, in the waterfall report, the totals for **VM Consumption** are greater than the totals for **VM Allocated**.
- In a clustering scenario, when multiple LPARs share the same virtual device, the storage is counted multiple time from an aggregated LPAR capacity perspective. For example, in the waterfall report, the totals for **VM Consumption** are greater than the totals for **VM Allocated**.
- If an LPAR has multiple paths to the same LUN, disabling MPIO on the LPAR results in counting storage more than once. The double counting occurs because multiple device handles are created for the LUN.

Mixed fabric zoning (Brocade-McData) discovery using DCFM 10.4.x and NA 11.x

You can discover fabric zoning information using DCFM 10.4.x and NA 11.x for mixed (Brocade-McData interoperability) fabrics and pure EOS (McData) fabrics.

To discover fabric zoning information for mixed (Brocade-McData) and pure EOS fabrics

- ◆ Set the **MixedFabric_Management** key to **2**.
(The default setting is 1).

Missing GUI information due to non-root agentless configuration of Solaris hosts

If a non-root user configures Solaris hosts agentlessly, the following information will be missing from the GUI:

- The Sun disk set capacity is not discovered
- Disk and slice information is not discovered.

If the disk and slice information is not discovered, the following correlations are impacted:

- Volume to LUN
- Soft Partition to LUN

Device handles for multipathing LUNs identified as separate disks and capacities multiplied (1928661)

You can configure agentless discovery of a remote host that uses multipathing software. If you discover this type of host, configure CommandCentral Storage to discover the storage arrays from which the multipathing LUNs are allocated to the host. Otherwise, CommandCentral Storage cannot discover the IDs for the LUNs that are allocated to the host. As a result, CommandCentral Storage identifies the device handles for the LUNs as separate disks and capacities are multiplied in the Storage Consumption reports.

This incident applies to EMC PowerPath (emcpower devices) and HPUX 11.31 (Agile disks).

For information about supported multipathing software, see the *Hardware and Software Compatibility List*. This document is updated regularly at:

<http://www.symantec.com/docs/TECH148619>

The Console lets you configure agentless discovery of the same host multiple times (2229779)

When you configure agentless discovery of remote hosts, you can enter any of the following to identify the host:

- Host name
- Fully-qualified host name
- IP address

You can configure discovery of the same host multiple times if you choose a different identifier each time. For example, you can discover the same host three different times if you separately enter the host name, fully-qualified host name, and then the IP address. As a result, data for that host appears multiple times.

If you mistakenly add the same host multiple times, you can unconfigure the extra hosts.

Erroneous CommandCentral Storage uninstallation failure warning (2231550)

When you uninstall the CommandCentral Storage 5.2RU1 add-on, you see the following erroneous uninstallation failure warning:

```
WARNING: Failed to remove service VRTSccsweb. Command  
C:\PROGRA~2\VERITAS\VRTSweb\bin\install\webappsvc.exe -uninstall  
VRTSccsweb returned Error: 1!!!
```

This warning appears even though the service is successfully removed. You can ignore this warning.

Host Storage Assessment may be over 100% for hosts discovered by the VMware tools VI SDK (2251667)

In CommandCentral Storage 5.2 RU1, in the **Exclude DAS** option, the Host Percentage Utilization in the Host Storage Assessment Report may be over 100% for hosts discovered by the VMware tools VI SDK.

Due to a missing file system to LUN correlation, CommandCentral Storage cannot determine if a file system is on SAN or local, directly-attached storage (DAS). CommandCentral Storage counts the uncorrelated storage as SAN storage. If file systems are on DAS storage, the utilization percentage calculation may be over 100% on some hosts.

Virtualization detail report lists incorrect server types (2255844)

In the Host Virtualization Detail report, Managed Virtual Machine Storage Usage table, the VIO Servers column erroneously lists GZ servers for Solaris Zones and ESX servers for VMWare.

An incorrect error message displays when you configure HMC in LPARExplorer (2258172)

When you configure HMC for IBM LPAR discovery in CommandCentral Storage, you may see an incorrect error message pertaining to configuration errors, such as invalid HMC IP address, invalid username, or invalid password. The error message contains the words:

```
Failed to execute command. Command may not be valid or system may be  
out of resources
```

If you encounter this error message, check the configuration data you entered and try the operation again.

Error message after upgrade from CC 5.2 to 5.2 RU4 on Solaris

If you upgrade from CommandCentral Storage 5.2 to CommandCentral Storage 5.2 RU4 on Solaris, you might see a message **Version mismatch** at the top right-hand side of the console. This message doesn't have any functionality impact.

Work around:

The workaround is to stop and then restart the `esmeb` service using `vxccs` script as follows:

```
vxccs stop esmweb  
  
vxccs start esmweb
```

Coexistence with SFWHA 5.1 SP2 or 6.0 versions on cluster nodes

CommandCentral Storage Management Server (versions 5.1, 5.1.1, 5.1.2, and 5.2) cannot co-exist with SFWHA 5.1 SP2 or 6.0 versions on cluster nodes.

You need to upgrade to CommandCentral Storage Management Server 5.2 RU2, or later versions before upgrading SFWHA to 5.1 SP2 or 6.0.

EMCSymmetrixExplorer process stability issues(2372518)

EMCSymmetrixExplorer process may increase in Memory footprint and may have stability issues on the Server where SFW 5.x versions are installed.

Symptom:

`vxsvc` is running and EMCSymmetrixExplorer process consumes high memory and hangs.

Workaround:

Stop the `vxsvc` Veritas Enterprise Administrator Service and restart EMCSymmetrixExplorer.

Fix:

Customers should contact Symantec Support for the fix.

Bulk associations between zones and zone members causes performance issues

During discovery, by default the association between various zones and zone members are set in bulk. This association causes performance issues if the number of zones and zone members is very large.

Work around:

To disable the bulk association feature, you need to set a flag `WalkSpecificAssociations` to 1. this flag is present in `BrocadeSwitchExplorer` configuration file. You need to set the `WalkSpecificAssocaitions` flag to 1 for each CIMOM(Common Information Model Object Manager) in configuration file.

AIX 7.1: CommandCentral Storage 5.2 RU4 does not discover Driver and Product for IBM 8GB HBAs

For AIX 7.1 platform, CommandCentral Storage 5.2 RU4 does not discover driver and product information for IBM 8 GB HBA FC 5735 (Driver version `df1000f114108a03`).

Incorrect value for % Consumed capacity in LUNs Capacity Distribution by Tier table for VMAX FAST array (2917605)

For VMAX FAST array, if all the devices in that report are consuming storage from single tier then the % consumption from tier is shown as 100%.

Total LUN Capacity on the Attributes tab does not include VPLEX clusters (2924381)

Total LUN capacity on the **Attributes** tab is the capacity of distributed virtual volumes of VPLEX array and does not includes VPLEX local virtual volumes.

VPLEX waterfall chart does not consider the administrative capacity (2930776)

For VPLEX arrays, waterfall chart does not consider the administrative capacity. Due to this, there may be a mismatch between **Physical Configured** and **Logical Capacity** bars in the chart.

Incorrect Physical Inventory Report for VPLEX array (2930754)

For VPLEX arrays, **Physical Inventory Report** does not display accurate values.

In **Physical Inventory Report**, the LUN capacity displayed is not the total capacity of the VPLEX array and the VPLEX clusters. The report displays the capacity of the VPLEX array only.

For VPLEX array, following columns are not applicable:

- **Physical Disk Count**
- **Port Count**

VPLEX array discovery sometimes fails on Windows platform (2926468)

VPLEX discovery from a CommandCentral Storage Management Server or CommandCentral Storage Control Host on Windows platform may result in partial discovery.

Workaround:

You need to refresh the VPLEX explorer, or remove VPLEX configuration from the Windows server and configure VPLEX from a Solaris Control Host.

VPLEX array listed in the Physical Disk Available Storage report (2928730)

Reporting > Reclamation > Physical Disk Available Storage is not applicable to the VPLEX array. But if you open the Customize and Save dialog, you can see the VPLEX array listed there for selection. The report does not contain any data if you save the report for a VPLEX array.

Mismatch in physical configured capacity and total capacity of devices (2907997)

For VPLEX array, the **physical configured capacity** and the total of **addressable, overhead,** and **available** capacities do not match.

Some capacities in Virtualization SAN Arrays Summary table do not include VPLEX clusters capacity (2932925)

For VPLEX arrays, some columns in **Virtualization SAN Arrays Summary** table display only the capacity of VPLEX array and these columns do not include the capacities of VPLEX clusters. Following are the columns that display only the capacity of VPLEX array:

- **Total LUN Capacity**
- **Host : Claimed Storage (GB)**
- **Host : Masked Storage (GB)**

Zero Port Count in VPLEX array overview page (2945574)

For VPLEX arrays, **Port Count** column on **Overview** page displays a value of zero. Since port count is not applicable to VPLEX arrays, the column displays zero value.

Claimed column on Storage Capacity Summary does not display LUNs of the VPLEX clusters (2939330)

For reporting with a VPLEX array scope, if you drill down to **Reporting -> Storage Capacity Summary -> Claimed**, the column displays only the LUNs of the VPLEX array, and not the LUNs of the VPLEX clusters.

Mismatch in the subscribed capacity of thin pool and the sum of volume's subscribed capacity. (2899578)

If you use IBM SVC array with mirrored volumes, there may be mismatch between the subscribed capacity of the thin pool and the sum of capacities of volume that are created from this thin pool.

Host masked storage not displayed for VPLEX arrays in case of hosts with distributed virtual volume (2939081)

In CommandCentral Storage 5.2 RU4, if the host has distributed virtual volumes, then **Host: Masked Storage (GB)** column in **Hosts Summary** table and **Virtualization SAN Arrays Summary** table does not display any value for VPLEX arrays.

Thin pool overhead for Hitachi and EMC Symmetrix is displayed as zero (2935323)

Overhead column in the **thin Pools** table on the **Thin Pools** tab for Hitachi and EMC Symmetrix that support thin provisioning is displayed as zero. Overhead capacity is not applicable for Thin Pools for Hitachi and EMC Symmetrix arrays.

Thin device discovery using Symcli 7.3.1 may give incorrect report

If you use Symcli version 7.3.1 to discover thin pools, it may report incorrect count of other pool bound thin devices. This may result in following issues in the discovery of Symmetrix arrays in CommandCentral Storage:

- For thin devices that consume storage from more than one thin pool, the consumed capacity can be incorrect.
- In **Array Dynamic Storage Tiering** report, the capacity consumption of some thin devices from tiers can be incorrect.