



Release Notes for *Cisco Videoscape Distribution Suite Transparent Caching Release 5.0.3 b275/b276*

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These release notes describe the new features and caveats of the Cisco Videoscape Distribution Suite Transparent Caching Release 5.0.3 b275/b276.



Note

VDS TC Release 5.0.3 b275/b276 is available as both a full installation and as an upgrade package. For a *full* installation, the file name is “VDS-TC_Installer-5.0.3_b275_b276-RELEASE_Cisco.iso”. The file name for the *upgrade* package is “VDS-TC_GA_5.0.3b276_Server_Cluster.tar.gz” for upgrading a cluster installation and “VDS-TC_GA_5.0.3b275_Integrated_Appliance.tar.gz” for upgrading an integrated appliance installation.



Note

For information on how to perform a full installation, see the “Cisco Videoscape Distribution Suite Transparent Caching Software Installation Guide” (document number OL-28015-03). Please refer to the the [Installation Notes for VDS TC Release 5.0.3 b275/b276](#) section for important changes to make to the installation steps.

For information on how to perform an upgrade, see the “Cisco Videoscape Distribution Suite Transparent Caching Software Configuration Guide” (document number OL-28016-03).

For a list of open caveats that are pertinent to this release, see the “[Caveats](#)” section.

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Introduction

The Cisco Videoscape Distribution Suite Transparent Caching (VDS TC) solution is focused on reducing costs and improving quality of user experience in delivering unmanaged Internet-based content, including Internet video, file sharing, software distribution, mobile application downloads, and web browsing. VDS TC integrates highly scalable caching software with high-performance Cisco Unified Computing System™ (UCS) servers and blades, Cisco® switches, and SAN storage. The VDS TC solution, combined with other Videoscape products like Cisco Videoscape Distribution Suite for Internet Streaming (VDS IS), provides a complete platform for optimizing managed and unmanaged content delivery.

For unmanaged content, Cisco VDS TC empowers service providers to alleviate network congestion due to Internet video and other high-bandwidth applications in their networks, while meeting subscribers' demand for the content and improved quality of experience. VDS TC is typically deployed in conjunction with a network element, such as a router, which is responsible for classification and redirection of traffic to the cache, based on Layer 4 and Layer 7 criteria.

New Features

No new features were introduced in Cisco VDS TC Release 5.0.3 b275/b276.

Product Overview

Cisco VDS TC is multi-protocol, supporting HTTP for download, progressive download, and adaptive bit rate (ABR) streaming, as well as multiple peer-to-peer (P2P) protocols. The solution automatically adapts to content popularity once installed, and is access-network-agnostic. The system automatically adjusts to traffic mix changes during the day and week.

One of the benefits of Cisco VDS TC is that it can enable service providers to offload a significant amount of content traffic by serving the popular content from a locally cached copy, within the access network. As a result, service providers can experience a rapid return on investment (ROI) by reducing their operational network costs, and defer capital investments into their network infrastructures.

The other main benefit of Cisco VDS TC is the improvement of the quality of experience (QoE) for the subscribers of the service providers. By serving popular content from locally deployed cache, the content is better positioned to provide a better user experience than if the content were served from the original content server.

The Cisco VDS TC solution can enable service providers to:

- Lower core and edge network bandwidth
- Manage infrastructure costs for over-the-top (OTT) content in a cost-efficient manner
- Improve subscriber QoE for popular content

- Deploy OTT caching without impacting the client or origin CDN, or application behavior

System Requirements

Cisco VDS TC is optimized for use on the Cisco Unified Computing Systems (Cisco UCS), such as the Cisco UCS C220 Rack Server or the Cisco UCS B200 Blade Server.

Product	Hardware
VDS TC Cache Server	Cisco UCS B200 Blade Server or Cisco UCS C220 Rack Mount Server with the following: <ul style="list-style-type: none"> • 2 x 2.40 GHz E5-2665, 115W 8C, 20 MB Cache, DDR3 1600 MHz • 32 GB DDR3-1333-MHz RDIMM, PC3-10600, 2R, 1.35v • 2 x 300 GB 6 Gb SAS 10K RPM SFF HDD, hot plug, drive sled mounted • For Cisco UCS C220 Rack Mount Server, firmware version 1.5.3.2 • For Cisco UCS B200 Blade Server, firmware 2.1.1.a
VDS TC Cache Manager	Cisco C220 Rack Mount Server or the Cisco C240 Rack Mount Server with the following: <ul style="list-style-type: none"> • 2 x 2.4 GHz E5-2609/80W 4C, 10 MB Cache, DDR3 1066 MHz • 16 GB DDR3-1333-MHz RDIMM/PC3-10600, 2R, 1.35v • 2 x 300 GB 6 Gb SAS 10K RPM SFF HDD, hot plug, drive sled mounted • Firmware version 1.5.3.2
VDS TC SAN Storage	Dual controller, 24 x 600G SAS 10K RPM, 2.5 in. small form factor (SFF), with firmware version 07.86.32, Storage Manager version 10.86, and HDD firmware version 4.16
VDS TC Integrated Cache Server, Manager, and storage for a VDS-TC-1S installation	Cisco UCS C240 Rack Mount Server with the following: <ul style="list-style-type: none"> • 2 x 2.40 GHz E5-2665, 115W 8C, 20 MB Cache, DDR3 1600 MHz • 32 GB DDR3-1333-MHz RDIMM, PC3-10600, 2R, 1.35v • 2 x 300 GB 6 Gb SAS 10K RPM SFF HDD, hot plug, drive sled mounted • 12 x 1T B 6 Gb SATA 7.2K RPM SFF HDD, hot plug, drive sled mounted • Firmware version 1.5.3.2

Installation Notes for VDS TC Release 5.0.3 b275/b276

Modifications to Installation Steps for an Integrated Appliance Installation

For a VDS TC Integrated Appliance installation, make the following substitutions to the *Cisco Videoscape Distribution Suite Transparent Caching Software Installation Guide, Release 5.0.2*.

1.) Use the parameters in the following table instead of Table 2-1 “Advanced BIOS Parameters”, which begins on page 2-6:

Processor Configuration	State
Hyper - Threading Technology	Enabled
Number Of Enabled Cores	All
Execute Disable	Enabled
Intel VT	Disabled
Intel VT-d	Disabled
Intel VT-d Coherency Support	Disabled
Intel VT-d ATS Support	Disabled
CPU Performance	High Throughput
Hardware Prefetcher	Disabled
Adjacent Cache Line Prefetch	Disabled
DCU Streamer Prefetch	Disabled
DCU IP Prefetcher	Enabled
Direct Cache Access Support	Enabled
Power Technology	Disabled
Enhanced Intel Speedstep Technology	Enabled
Intel Turbo Boost Technology	Enabled
Processor Power State C6	Disabled
Processor Power State C1 Enhanced	Disabled
P-STATE Coordination	HW ALL
Frequency Floor Override	Disabled
Energy Performance	Performance
Memory Configuration	Status
Select Memory RAS	Maximum Performance

DRAM Clock Throttling	Performance
NUMA	Enabled
Low Voltage DDR Mode	Performance Mode
Channel Interleaving	Auto
Rank Interleaving	Auto
Patrol Scrub	Enabled
Demand Scrub	Enabled
Altitude	300 M
QPI Configuration	Status
QPI Link Frequency Select	Auto
Onboard Storage	Status
Onboard SCU Storage Support	Disabled
USB Configuration	Status
USB Port:SD Card	Disabled
PCI Configuration	Status
ASPM Support	Disabled
Serial Configuration	Status
Out-of-Band Mgmt Port	Disabled
Console Redirection	Disabled
Terminal Type	VT100+
Bits per Second	115200
Flow Control	None
LOM and PCIe Slots Configuration	Status
LOM Port 0 Legacy OptionROM	Enabled
LOM Port 1 Legacy OptionROM	Enabled
LOM Port 2 Legacy OptionROM	Enabled
LOM Port 3 Legacy OptionROM	Enabled
All PCIe Slots OptionROM	Enabled
PCIe Slot:1 OptionROM	Enabled
PCIe Slot:2 OptionROM	Enabled
PCIe Slot:3 OptionROM	Enabled

PCIe Slot:4 OptionROM	Enabled
PCIe Mezzanine OptionROM	Enabled
PCIe Slot:1 Link Speed	GEN3
PCIe Slot:2 Link Speed	GEN3

2.) Perform these *additional* steps after Step 17 on page 2-8:

- From the Power Delay Type drop-down list, choose **Fixed**.
- From the Power Delay Value drop-down list, choose **0**.
- From the Fan Policy drop-down list, choose **Maximum Power**.

Modifications to Installation Steps for a C-Series Cluster Installation

For a VDS TC C-Series Cluster installation, make the following substitutions to the *Cisco Videoscape Distribution Suite Transparent Caching Software Installation Guide, Release 5.0.2*.

1.) Use the parameters in the following table instead of Table 7-1 “Advanced BIOS Parameters”, which begins on page 7-6, and Table 8-1 “Advanced BIOS Parameters”, which begins on page 8-7:

Processor Configuration	State
Hyper - Threading Technology	Enabled
Number Of Enabled Cores	All
Execute Disable	Enabled
Intel VT	Disabled
Intel VT-d	Disabled
Intel VT-d Coherency Support	Disabled
Intel VT-d ATS Support	Disabled
CPU Performance	High Throughput
Hardware Prefetcher	Disabled
Adjacent Cache Line Prefetch	Disabled
DCU Streamer Prefetch	Disabled
DCU IP Prefetcher	Enabled
Direct Cache Access Support	Enabled
Power Technology	Disabled
Enhanced Intel Speedstep Technology	Enabled
Intel Turbo Boost Technology	Enabled

Processor Power State C6	Disabled
Processor Power State C1 Enhanced	Disabled
P-STATE Coordination	HW ALL
Frequency Floor Override	Disabled
Energy Performance	Performance
Memory Configuration	Status
Select Memory RAS	Maximum Performance
DRAM Clock Throttling	Performance
NUMA	Enabled
Low Voltage DDR Mode	Performance Mode
Channel Interleaving	Auto
Rank Interleaving	Auto
Patrol Scrub	Enabled
Demand Scrub	Enabled
Altitude	300 M
QPI Configuration	Status
QPI Link Frequency Select	Auto
Onboard Storage	Status
Onboard SCU Storage Support	Disabled
USB Configuration	Status
USB Port:SD Card	Disabled
PCI Configuration	Status
ASPM Support	Disabled
Serial Configuration	Status
Out-of-Band Mgmt Port	Disabled
Console Redirection	Disabled
Terminal Type	VT100+
Bits per Second	115200
Flow Control	None
LOM and PCIe Slots Configuration	Status
LOM Port 0 Legacy OptionROM	Enabled

LOM Port 1 Legacy OptionROM	Enabled
LOM Port 2 Legacy OptionROM	Enabled
LOM Port 3 Legacy OptionROM	Enabled
All PCIe Slots OptionROM	Enabled
PCIe Slot:1 OptionROM	Enabled
PCIe Slot:2 OptionROM	Enabled
PCIe Slot:3 OptionROM	Enabled
PCIe Slot:4 OptionROM	Enabled
PCIe Mezzanine OptionROM	Enabled
PCIe Slot:1 Link Speed	GEN3
PCIe Slot:2 Link Speed	GEN3

- 2.) Perform this *additional* step after Step 18 on page 7-8:
 - From the Fan Policy drop-down list, choose **Maximum Power**.
- 3.) Perform these *additional* steps after Step 22 on page 8-9:
 - From the Power Delay Type drop-down list, choose **Fixed**.
 - From the Power Delay Value drop-down list, choose **0**.
 - From the Fan Policy drop-down list, choose **Maximum Power**.
- 4.) Perform the following step *instead* of the current Step 6 on page 8-18:
 - **Step 6:** Using the up and down arrows, choose **Cisco vKVM-Mapped vDVD1.22**. The system will reboot from the virtual ISO image.
- 5.) Perform the following steps *instead* of the current Steps 3 through 7 on page 9-1:
 - **Step 3:** From the VNC console, enter the command `cd /opt/pang/utilities/DS/DS3500_FW86` to change folders.
 - **Step 4:** Enter the command `tar -zxvf SM10.86_Linux_64bit_x86-64_SMIA-10.86.x5.35.tgz`.
 - **Step 5:** After the files are extracted, enter the command `cd ./Linux_x64_10p86/Linux_x86-64/` to change folders.
 - **Step 6:** Enter the command `chmod 777 SMIA-LINUX64-10.86.0A05.0035.bin` to set permissions on the file.
 - **Step 7:** Next, to start the Management Station installation enter the command `./SMIA-LINUX64-10.86.0A05.0035.bin`.
- 6.) Perform this *additional* step after Step 15 on page 9-9:
 - From the Speed and Duplex Mode drop-down list, choose **1Gbps, Full Duplex**.
- 7.) Perform this *additional* step after Step 19 on page 9-9:
 - From the Speed and Duplex Mode drop-down list, choose **1Gbps, Full Duplex**.
- 8.) Perform the following step *instead* of Step 1 on page 9-15:

- **Step 1:** From the VNC console connection to the VDS TC Management Server, enter the command `cd /opt/pang/useful/ds3500i-256k_configure_1.9-FW86-CISCO/` to change folders.

Modifications to Installation Steps for a Blade Server Cluster Installation

For a VDS TC Blade Server Cluster installation, make the following substitutions to the *Cisco Videoscape Distribution Suite Transparent Caching Software Installation Guide, Release 5.0.2*.

1.) Use the parameters in the following table instead of Table 13-1 “Advanced BIOS Parameters”, which begins on page 13-5:

Processor Configuration	State
Hyper - Threading Technology	Enabled
Number Of Enabled Cores	All
Execute Disable	Enabled
Intel VT	Disabled
Intel VT-d	Disabled
Intel VT-d Coherency Support	Disabled
Intel VT-d ATS Support	Disabled
CPU Performance	High Throughput
Hardware Prefetcher	Disabled
Adjacent Cache Line Prefetch	Disabled
DCU Streamer Prefetch	Disabled
DCU IP Prefetcher	Enabled
Direct Cache Access Support	Enabled
Power Technology	Disabled
Enhanced Intel Speedstep Technology	Enabled
Intel Turbo Boost Technology	Enabled
Processor Power State C6	Disabled
Processor Power State C1 Enhanced	Disabled
P-STATE Coordination	HW ALL
Frequency Floor Override	Disabled
Energy Performance	Performance
Memory Configuration	Status
Select Memory RAS	Maximum Performance

DRAM Clock Throttling	Performance
NUMA	Enabled
Low Voltage DDR Mode	Performance Mode
Channel Interleaving	Auto
Rank Interleaving	Auto
Patrol Scrub	Enabled
Demand Scrub	Enabled
Altitude	300 M
QPI Configuration	Status
QPI Link Frequency Select	Auto
Onboard Storage	Status
Onboard SCU Storage Support	Disabled
USB Configuration	Status
USB Port:SD Card	Disabled
PCI Configuration	Status
ASPM Support	Disabled
Serial Configuration	Status
Out-of-Band Mgmt Port	Disabled
Console Redirection	Disabled
Terminal Type	VT100+
Bits per Second	115200
Flow Control	None
LOM and PCIe Slots Configuration	Status
LOM Port 0 Legacy OptionROM	Enabled
LOM Port 1 Legacy OptionROM	Enabled
LOM Port 2 Legacy OptionROM	Enabled
LOM Port 3 Legacy OptionROM	Enabled
All PCIe Slots OptionROM	Enabled
PCIe Slot:1 OptionROM	Enabled
PCIe Slot:2 OptionROM	Enabled
PCIe Slot:3 OptionROM	Enabled

PCIe Slot:4 OptionROM	Enabled
PCIe Mezzanine OptionROM	Enabled
PCIe Slot:1 Link Speed	GEN3
PCIe Slot:2 Link Speed	GEN3

- 2.) Perform this *additional* step after Step 18 on page 13-7:
 - From the Fan Policy drop-down list, choose **Maximum Power**.
- 3.) Perform the following steps *instead* of Steps 3 through 7 on page 15-2:
 - **Step 3:** From the VNC console, enter the command `cd /opt/pang/utilities/DS/DS3500_FW86` to change folders.
 - **Step 4:** Enter the command `tar -zxvf SM10.86_Linux_64bit_x86-64_SMIA-10.86.x5.35.tgz`.
 - **Step 5:** After the files are extracted, enter the command `cd ./Linux_x64_10p86/Linux_x86-64/` to change folders.
 - **Step 6:** Enter the command `chmod 777 SMIA-LINUX64-10.86.0A05.0035.bin` to set permissions on the file.
 - **Step 7:** Next, to start the Management Station installation enter the command `./SMIA-LINUX64-10.86.0A05.0035.bin`.
- 4.) Perform this *additional* step after Step 15 on page 15-10:
 - From the Speed and Duplex Mode drop-down list, choose **1Gbps, Full Duplex**.
- 5.) Perform this *additional* step after Step 19 on page 15-10:
 - From the Speed and Duplex Mode drop-down list, choose **1Gbps, Full Duplex**.
- 6.) Perform the following step *instead* of Step 1 on page 15-16:
 - **Step 1:** From the VNC console connection to the VDS TC Management Server, enter the command `cd /opt/pang/useful/ds3500i-256k_configure_1.9-FW86-CISCO/` to change folders.

Caveats

Open Caveats in Cisco Videoscape Distribution Suite Transparent Caching Release 5.0.3 b275/b276

- CSCug09063: ‘oper service stop’ from VDS-TC CLI not working
 - **Symptom:** For a VDS TC 1S system, when you execute the **oper service stop** command, it can take up to 20 seconds to stop the caching service. If you execute the **show status** command immediately after entering the **oper service stop** command, you may see a status of “enable started”, even though the stopping process has already been initiated.
 - **Workaround:** Continue to enter the **show status** command until you see a status of “oper service stop”. It may take up to 20 seconds to see this status depending on how busy the VDS TC 1S system is.

- **CSCug27744: Grid/Blade “cmdbutils -s” returns “unexpected EOF ...” in the beginning**
 - **Symptom:** When you enter the command `./cmdbutils -s` from the `/opt/pang/bin` folder, the following two lines of erroneous messages are returned at the beginning of the output. However, the correct output appears below these lines.

```
sh: -c: line 0: unexpected EOF while looking for matching `"'
sh: -c: line 41: syntax error: unexpected end of file
```
 - **Workaround:** Ignore the two lines of erroneous messages that appear at the beginning of the output.
- **CSCug46383: 16B:Policy&Config/Lic manager/Generate Lic req: produces invalid data**
 - **Symptom:** When you choose **Policies and Config > License Manager > Generate License Request** from Cisco VDS TC Manager, not all of the system ids are included in the license request that is generated.
 - **Workaround:** This problem occurs because not all cache engines are online when the license request is generated. Please ensure that all cache engines are online by issuing the **show status** command from the VDS TC CLI. To start a cache engine that is not online, from the VDS TC CLI Enable mode, enter the command **oper server x start** command, where *x* is the number of the cache engine that you want to start.
- **CSCug32380: Incorrect msg logged to /opt/pang/cdrs/*log while ce6-eth1/eth2 down/up**
 - **Symptom:** Occasionally, incorrect messages are logged into `/opt/pang/cdrs` while unplugging and plugging back in the Ethernet1 and Ethernet2 cables of a cache engine.

For example:

```
stats: iff_4 (eth9) to classifier 0
10-04-13 13:32:09.080, 7189[common:Statistics]void statistics_c::dump_packets_queues()
### Classifier Interface queues stats: iff_5 (eth10) to classifier 0
10-04-13 13:32:09.080, 7189[common:Statistics]void statistics_c::dump_packets_queues()
### Classifier Interface queues stats: iff_6 (eth11) to classifier 0
10-04-13 13:32:09.080, 7189[common:Statistics]void statistics_c::dump_packets_queues()
### Classifier Interface queues stats: iff_7 (eth12) to classifier 0
```
 - **Workaround:** The messages should be ignored, they do not belong in `/opt/pang/cdrs`.
- **CSCug77748: Management and Storage Network Disconnect traffic get bypassed**
 - **Symptom:** If all of the connections between the cache engines and the entire storage array are lost, all traffic is forwarded directly to the Internet (bypassed by the system). Once connection between the cache engines and the storage array is restored, it may take up to one hour before user requests will be handled by the cache engine.
 - **Workaround:** There is no work around. It will take one hour before the cluster returns to normal.
- **CSCui51507: collect_logs.sh is not working**
 - **Symptom:** `collect_logs.sh` does not work.
 - **Workaround:** Please contact Cisco TAC to collect data individually and manually.
- **CSCui48738: 16B/b246: CE core dump**
 - **Symptom:** In rare instances, one of the cache engines may core during high stress.
 - **Workaround:** None. Reboot the cache-engine will make it normal again.
- **CSCug77714: 1 of 5 Storage enclosures failure causes Cache Engines restarts**

- **Symptom:** When failed storage enclosures back online, Cache Engine which responsible for the Storage Enclosure restarted automatically. Cache Services are impacted Partially, Service degraded due to Cache Engines restarts. Part of traffic will get into bypass mode until engine come back online.
- **Workaround:** None. VDS-TC will get back to normal operation after Cache Engines gone through restart and back online.
- **CSCuh42211: (16B) Storage/Data Switches powerfail result in a disabled cluster**
 - **Symptom:**
 1. VDS-TC Cluster is running and processing traffic.
 2. Storage and Data switches go through power failure.
 3. Power failure recovery on both N7K and Storage.
 4. Cluster remains in disabled state and does not recover automatically.
 5. Manual **oper service stop** and **oper service start** does not help to recover.
 6. Manual reboot of cache engines is required to recover.
 - **Workaround:** Manual reboot of cache engines is required to recover.
- **CSCui17067: Unable to export hash list in grid setup**
 - **Symptom:** `cache list export` returns “Failed to get hashes list from cmdb”.
 - **Workaround:** The only way to view the list of hash-IDs is to use the “cache list display” or “cache list short” CLI commands. These commands will display the hash-IDs on the screen as oppose to exporting them to a file.
- **CSCui66282: Cisco-Grid-16CEs-cluster_conf.xml: maybe set replicate_ips_change to 0**
 - **Symptom:** For performance purpose, it may be good to include `<replicate_ips_change>0</replicate_ips_change>` in Cisco-Grid-16CEs-cluster_conf.xml in `*configuration*.gz`.
 - **Workaround:** The following parameter is suggested to be put in a large cluster configuration. Please confirm this with Cisco TAC regarding the feasibility to your configuration before using it.
Add the following manually to `<policy>` section in Cisco-Grid-16CEs-cluster_conf.xml:
 - `<replicate_ips_change>0</replicate_ips_change>`
- **CSCui69970: Grid install:/opt/pang/utilities/DS/linuxrdac-09.03.0C05.0638 not exist**
 - **Symptom:** Per Cluster/Grid installation guide, for mpp installation, you need to “Enter the command `cd /opt/pang/utilities/DS/linuxrdac-09.03.0C05.0638`”, however, in b246, no such directory exists.
 - **Workaround:** Please use the latest - which is `rdac-LINUX-09.03.0C05.0652-source.tar.gz`.
The revised steps for installation are:
 - Step 1** `cd /opt/pang/utilities/DS`
 - Step 2** `tar -zxvf rdac-LINUX-09.03.0C05.0652-source.tar.gz`
 - Step 3** `cd linuxrdac-09.03.0C05.0652/`
 - Step 4** `make`
 - Step 5** `make install`
 - Step 6** `echo “modprobe mppVhba” >> /etc/init.d/boot.local`

- Step 7** `sync`
- Step 8** `reboot -f`

Resolved Caveats

This section contains the resolved caveats in Cisco VDS TC Release 5.0.3 b275/b276. Not all resolved issues are mentioned here. The following list highlights resolved caveats associated with customer deployment scenarios:

- **CSCud43741: Incorrect reporting about P2P traffic in customer field trial environment**
Incorrect reporting of some HTTP traffic as P2P traffic.
- **CSCud65345: RES5 fail: Cluster degraded 15 mins after disconnect storage ctrl'er 1**
Cluster is degraded for 15 minutes after disconnecting storage controller 1.
- **CSCud86102: MGMT needs to re-establish spread connection if it get disconnected**
Management server does not re-establish spread connection if it gets disconnected.
- **CSCug22967: IPv6 addr ent'ed via GA_installer.sh/"network ipv6" not in cluster_conf**
After entering a management IPv6 address on the VDS TC management server using either the GA_installer.sh script or the CLI commands, **network ipv6** and **network default6_gw**, the IPv6 address information does not appear in the configuration of the VDS TC management server.
- **CSCud47393: No 72th storage in a 3 storage attachment grid system**
VDS TC Manager shows an inactive volume on the cluster. However, when checking the volumes from the IBM storage manager, no bad sectors or errors can be found. This can occur if the volume had a corrupted file system when the VDS TC disk format script was executed. The disk format script will skip the re-format on that volume and leave it in an inactivate state.
- **CSCud85704: License data not in par from CLI and GUI output**
The previous license data remains in the existing CLI login session after an upgrade or a new license has been applied.
- **CSCuh89643: VDS-TC-MIB.txt MIB file is not readable though MIB browser tool**
The VDS-TC-MIB.txt file does not load on the HP NNMi. This error occurs when loading the VDS-TC-MIB.txt on the HP NNMi.
- **CSCui15516: ds3500i-256k_configure_1.9-FW86-CISCO.tgz:pls integrate into ISO**
ds3500i-256k_configure_1.9-FW86-CISCO.tgz is needed to replace SAN storage and was not integrated into ISO. ds3500i-256k_configure_1.9-FW86-CISCO.tgz was released as a separated package and needs to be downloaded separately while replacing SAN storage. It would be good that this tgz can be integrated into ISO then customer does not need to extra download.
- **CSCuh47876: backup interface po 43 disappears after reboot**
Incorrect "backup interface Port-channel43" was put in 4948-1-RM-RD-2-4-8-16-CE.txt & 4948-2-RM-RD-2-4-8-16-CE.txt which were part of *configuration*.gz.
- **CSCuh84948: Need a cluster_conf.xml for 1 PBR + 4NICS for forwarding**
Missing a cluster_conf.xml for 1PBR + 4NICS for forwarding in *configuration*.gz.
- **CSCui02428: 16blades_redundant_all_cfg.xml is not readable in 157*tgz**
16blades_redundant_all_cfg.xml is not readable in *configuration*.gz.
- **CSCui02395: Incorrect name/VLAN associated in startup-config-main-vdc in 157*tgz**

- Incorrect name/VLAN associated in startup-config-main-vdc in *configuration*.gz.
- **CSCui02320: Wrong VLAN in port-channel 11/12 in startup-config-main-vdc in 157*.tgz**
Wrong VLAN in port-channel 11/12 in startup-config-main-vdc in *configuration*.gz.
 - **CSCui02970: Add “no spanning-tree vlan 50” in 4849-[1,2]-RM-RD-2*.txt in 157*.tgz**
Add “no spanning-tree vlan 50” in 4849-[1,2]-RM-RD-2*.txt in *configuration*.gz.
 - **CSCui10861: (Urgent) - Need the support of hundreds of CIDRs in TC, now only 32**
Need the support of hundreds of CIDRs in TC, now only 32.
 - **CSCui98282: VDS-TC; software ignores the critical watermark and the disk is filled**
There is an issue with the expiration mechanism of the storage. When reaching the critical watermark for expiration, the software ignores the watermark and the disk is filled.
 - **CSCuj06011: VDS-TC: overload issue by packet release of SILVERLIGHT sessions**
The two overload issue can happen on CE and this is related to packet release of SILVERLIGHT sessions.
 - **CSCuj06037: VDS-TC: Grid recovery took a long time**
Service started too soon before all data volumes were seen on the CEs causing subsequent restart during cache service startup trying to retrieve all cache volumes.
 - **CSCuj43492: "io_request_pool usage threshold has been reached" displayed**
The message “io_request_pool usage threshold has been reached” has been displayed on CE-3 and CE-6 on TIC 4.
 - **CSCuj43498: All CEs experienced volume turned OFF due to error**
Quite a number of volumes were not available when the CEs were starting up. This led to subsequent restart of the CEs trying to recover all volumes. “failed to init cmdb” is an indication that the CEs are not able to retrieve the cached database that resided on these volumes.
 - **CSCuj43504: Youtube and Google Play store issues on CE**
its statistics shows slow download speed of google play store apps.
 - **CSCuj43528: System degradation happens due to the reboot of CE with 14GB core file**
System degradation happens due to the reboot of CE with 14GB core file.
 - **CSCuj45701: VDS-TC: ISO install aborted on UCS appliance**
Install on UCS Appliance Aborted with the following message: “No device big enough for installation was found. Aborting installation.”
 - **CSCuj29602: VDS-TC: cluster upgrade CE fails from ver 5.0.2b246 to version 5.0.3b262**
Attempted upgrade of cluster system with 8 CEs and one of these failed to upgrade.

Related Documentation

Software Documents

Refer to the following documents for additional information about VDS TC 5.0.2.

Document	URL
<i>Cisco Videoscape Distribution Suite Transparent Caching Software Installation Guide</i>	http://www.cisco.com/en/US/docs/video/videoscape/distribution_suite/vds/v5_0_2/OL-28015-02_VDS-TC_5.0.2_sw_install_guide.pdf
<i>Cisco Videoscape Distribution Suite Transparent Caching Software Configuration Guide</i>	http://www.cisco.com/en/US/docs/video/videoscape/distribution_suite/vds/v5_0_2/OL-28016-02_VDS-TC_5.0.2_sw_config_guide.pdf
<i>Cisco Videoscape Distribution Suite Transparent Caching Manager User Guide</i>	http://www.cisco.com/en/US/docs/video/videoscape/distribution_suite/vds/v5_0_2/OL-28017-02_VDS-TC_5.0.2_manager_user_guide.pdf
<i>Cisco UCS C-Series Rack Servers Install and Upgrade Guides</i> web page	http://www.cisco.com/en/US/products/ps10493/products_installation_and_configuration_guides_list.html
<i>Cisco UCS B200 Blade Server Installation and Service Note</i>	http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/blade.html
<i>Cisco UCS B-Series Blade Servers Configuration Guides</i> web page	http://www.cisco.com/en/US/products/ps10280/products_installation_and_configuration_guides_list.html
<i>Cisco UCS 5108 Server Chassis Installation Guide</i>	http://www.cisco.com/en/US/docs/unified_computing/ucs/hw/chassis/install/ucs5108_install.html

The entire VDS TC software documentation suite is available on Cisco.com at:
http://www.cisco.com/en/US/products/ps12654/tsd_products_support_series_home.html

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

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