



Release Notes for Cisco VDS-TV 3.2.6

These release notes cover Cisco Videoscape Distribution Suite for Television (VDS-TV) Release 3.2.6.

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Enhancements

[Table 1](#) lists the issues resolved in the VDS-TV 3.2.6 release.

Click on the bug ID to view the bug details. This information is displayed in the [Bug Search](#).

Table 1 *Enhancements in VDS-TV 3.2.6 Release*

Bug ID	Description
CSCu55711	In order to bookmark the current position within the stream for later reuse, the streamer will send the current position as a part of RTSP Teardown response. To enable this feature add a line "TEARDOWN_WITH_BOOKMARK=1" in /home/isa/bss/etc/aim.conf file.
CSCu55685	In a play request whenever there is a jump over EOS (end of stream), the streamer will play for a graceful period of time before closing the stream. Graceful period is a configurable value (in seconds) that you can set in the rtsp.conf file. To enable this feature add a line "GRACE_EOS=5" in /home/isa/bss/etc/aim.conf file.
CSCu55545	Ingest percentage status is shown for content instead of "Callback pending" in XML response. Earlier, VDS-TV replied with a "Callback Pending" message when the status is requested by the back-office and there is no indication of the status of the ingest. To enable this feature add a line "INGEST_STATUS=1" in /home/isa/bss/etc/aim.conf file.
CSCu55720	The VDS-TV system is provided with a FTP URLIngest. FTP pull should interpret the path part of the FTP URL as a relative path i.e. without the leading forward slash, which is in fact a separator and not part of the pathname. For example, if the content URL is ftp://user:pass@ftphost/directorypath/filename, then after FTP login and transfer mode settings, the ingest system should interpret the path as directorypath/filename.ts and not /directorypath/filename.ts.
CSCu80975	The first request from the SRM to the VDS-Streamer is a GET_PARAMETER rtsp message which starts the heartbeat sequence. In the first message, the SRM includes a body identifying itself, SRM_ID:{SRM machine name}. All subsequent GET_PARAMETER request, used as heartbeat between SRM and streamer will not have a message body. These GET_PARAMETER messages do not have a Session header. Currently, the VDS-Streamer replies with an error-message "Session not found", instead it should respond with 200 OK. To enable this feature add a line "FIRST_HEARTBEAT=1" in /home/isa/bss/etc/aim.conf file.

Open Caveats

[Table 2](#) lists the open issues in the VDS-TV 3.2.6 release.

Click on the bug ID to view the bug details. This information is displayed in the [Bug Search](#).

Table 2 *Open Caveats in VDS-TV 3.2.6 Release*

Bug ID	Description
CSCui69056	FSI Core due to interaction with the syslog-ng framework
CSCum00446	RTSP and CServer incorrectly return out of bandwidth message
CSCum81736	"System UpTime" is unavailable if both primary & backup controllers exist

Table 2 *Open Caveats in VDS-TV 3.2.6 Release (continued)*

Bug ID	Description
CSCum50991	Db hangs while trying to sync
CSCun12535	Serviceability: collect-all scripts
CSCui32403	Serviceability: AVSDB to track if data replication was successful
CSCtr62991	IP nick names stuck in system after re IP
CSCtx23597	DB_VERSION_MISMATCH when running "rpm -qa"
CSCuh36078	Everstream API <Stream> element skipping playlist segments
CSCuh85933	RTSP is performing no path-mtu-discovery and sets "Do not fragment" bit
CSCui13191	Handle low priority traffic more efficiently
CSCui32709	Thin Pipe Configurations must maintain same name reference in setupfile
CSCui37462	Live ingest would delay after system run a long time
CSCuj02516	Smoothing algorithm needs to be fixed to run less often
CSCuj31892	Vault targeted with too much work needs backoff capability
CSCuj31912	Add statistics to track individual control message bw
CSCuj31915	Control traffic for maintaining the system is using too much bandwidth
CSCuj31938	Vaults not seeing the correct primary server
CSCuj38030	MD5checksum are same
CSCuj42925	Fix BW manager settings
CSCuj43061	CCP Proxy Locate and on demand remote server connection issue
CSCuj44621	RTSP thread monitoring can't be enabled
CSCuj82750	IP Nickname page slow
CSCuj88044	340:Recorder not able to send idx file to TV streamer
CSCul00394	populate_contents_remotely.py script does not operate as expected
CSCul24306	TCP connection exist always after power off STB
CSCul87333	RTA is blocking 900 Mbps of bandwidth
CSCum00564	Troubleshooting CDS-TV-3.x.x LSCP 1x-read-failure tunable
CSCum04760	NGOD remote syslog did not contain detailed message
CSCum04796	NGOD A3 GetContentInfo response enhancement
CSCum26100	Importer doesn't delete .fin file
CSCum26949	Error 4400 - Unable to fill content fast enough
CSCum26987	CDSM - Show indicator for synchronization between CDSMs
CSCum27044	RTSP messages to include StreamerID
CSCum54834	Divide by zero bug in find_busiest_group
CSCum63857	Excessive blkog messages on VVIM's
CSCum74618	Limit the rate of evaluator queries
CSCum74646	Low priority bandwidth calc. need to include receive buffer backlog
CSCum74661	Data Recovery should further limit concurrent work rate

Table 2 Open Caveats in VDS-TV 3.2.6 Release (continued)

Bug ID	Description
CSCum74680	Remote Smoother should not prefer one server
CSCum74692	Server overall capacity should include network CPU
CSCum74726	Do not send out acknowledgment on every single network interrupt
CSCum74826	Align BW manager numbers in log and add sum of desired values
CSCun02763	[CISCO-159] DB trigger problem causes recordings to fail
CSCun07983	Issue with the Locate Virtual IP - Netmask is not getting updated
CSCun07992	Original mpeg name should not be altered
CSCun08079	[CISCO-159] CDE460 not reporting status on recordings (SR 628999379)
CSCun13016	Stream Pause is causing tuning failure on ODN clients
CSCun15656	Top Flag Field is being forced to true for progressive contents
CSCun18714	CServer detects "pic_order_cnt_type" incorrect
CSCun20686	250-2A4 vault hang ad requires power cycle to clear
CSCun22327	Backup utility failed for STREAM_OBJECT_15.db table
CSCun23927	Content Store Master Crashes if the hostname is more than 16 Characters
CSCun25181	Locate/General Port Subnet Mask not exporting into the XML
CSCun26510	Recorder sends misleading response code for content not found from DDN
CSCun35927	Enable Panic when CPU Soft lock up detected
CSCun38334	Network flap lead to cache no capacity
CSCun40155	AIM shouldn't fail a pkg-provisioning because "box cover" assets
CSCun40282	Post package failure the content is not cleaned up
CSCun40319	Not able to Stream, when a package is deleted and republished manually
CSCun46231	Invalid reference happens when a Stream has to play next play command
CSCun51057	All live ingested contents are deleted after one vault is on line again
CSCun52996	Package gets expired before one day to the License End Window
CSCun56573	Barker report should not show end date
CSCun60063	TcpConnectionprobe timer callback references invalid redirector
CSCun65152	Post package failure the content is not cleaned up requires changes inDB
CSCun68478	Peg/barker: Stream drop observed in backup server in active-active mode
CSCun71762	100-Continue handshake causes KDB
CSCun81902	GET_PARAMETER reply for heartbeat contains 2 bytes less(CR-LF CR-LF)
CSCun83101	Setup server bklogs to CDSM increases during high streaming
CSCun84320	VDS-TV: Not able to detect external interfaces if unplugged & plugged

Resolved Caveats

Table 3 lists the issues resolved in the VDS-TV 3.2.6 release.

Click on the bug ID to view the bug details. This information is displayed in the [Bug Search](#).

Table 3 *Resolved Caveats in VDS-TV 3.2.6 Release*

Bug ID	Description
CSCu196087	One way connection between vault and primary streamer
CSCum11567	Vault hit KDB during Cserver start
CSCum18718	Liveness Inactivity Timer only updated on Pause
CSCu158348	3.2.3: Unable to Run FSI on Vault with 256 entries in .arroyorc
CSCu129203	TrickMode API calls to CDSM: Connections are not being closed properly
CSCum82644	Ifcfg-ethx file for Locate port have a "NETMASK=(blank)"
CSCum21030	Wrapper Script on AVSDBUtil for getting the GOIDs for the PAID input
CSCum18206	AVSDBUtil tool throws error
CSCuh28252	3.2.3-VM - Apache service is not getting started on VM Controller
CSCui91625	Kernel2.6.32: System freezes OR Crashes after Uptime reaches 208+ days
CSCui95727	EthX interface of e1000 driver is showing transmit timed out warnings
CSCu196087	One way connection between vault and primary streamer
CSCun48855	Indication Progress failed for package with multiple contents
CSCun55786	Indication progress showing error report while reingest failed package
CSCum08886	Fsi unable to connect to db after fsi service is restarted
CSCum18718	Liveness Inactivity Timer only updated on Pause
CSCum34791	MasterContentstore fails when any slave down and back until slave is up
CSCum60267	FSI using Streamer Load information from Database
CSCum81736	"System UpTime" is unavailable if both primary&backup controllers exists
CSCum96674	Index file for Live ingests should only be mirrored from ingesting Vault
CSCun02405	3.2.5-es1b1: subnet mask for Interface type Locate cannot be configured
CSCun09538	Unexpected behavior when Configured GRACE_EOS=0 and applied jump request
CSCun25181	Locate/General Port Subnet Mask not exporting into the XML
CSCun32843	Ingesting content at default user path failed by generating core
CSCun64876	Alignment in avfdb.log is not proper while tracking data replication
CSCun71748	TEARDOWN reply contains 2 bytes too much (CR-LF CR-LF)

Accessing Bug Search

This section explains how to use the Bug Search to search for a specific bug or to search for all bugs in a release.

-
- Step 1** Go to <https://tools.cisco.com/bugsearch/>.
- Step 2** At the Log In screen, enter your registered Cisco.com username and password; then, click **Log In**. The Bug Search page opens.



Note If you do not have a Cisco.com username and password, you can register for them at <http://tools.cisco.com/RPF/register/register.do>.

- Step 3** To search for a specific bug, enter the bug ID in the Search For field, and press **Enter**.
- Step 4** To search for bugs in the current release, specify the following criteria:
- Select the **Model/SW Family** Product Category drop-down list box, then enter **Cisco Videoscape Distribution Suite for Television** or select the name from the **Select from list** option.
 - Select **Cisco Videoscape Distribution Suite for Television** from the list that displays.
 - The **VDS Television Software** type displays in the Software Type drop-down list box.
 - Releases: 3.2.
 - Advanced Filter Options—Define custom criteria for an advanced search by selecting an appropriate value from the drop-down lists by choosing either one Filter or multiple filters from the available categories. After each selection, the results page will automatically load below the filters pane. If you select multiple filters, it behaves like an AND condition.
 - Modified Date—Select one of these options to filter bugs: **Last Week**, **Last 30 days**, **Last 6 months**, **Last year**, or **All**.
 - Status—Select **Fixed**, **Open**, **Other**, or **Terminated**.

Select **Fixed** to view fixed bugs. To filter fixed bugs, uncheck the Fixed check box and select the appropriate suboption (Resolved or Verified) that appears below the Fixed check box.

Select **Open** to view all open bugs. To filter the open bugs, uncheck the Open check box and select the appropriate suboptions that appear below the Open check box.

Select **Other** to view any bugs that are duplicates of another bug.

Select **Terminated** to view terminated bugs. To filter terminated bugs, uncheck the Terminated check box and select the appropriate suboption (Closed, Junked, or Unreproducible) that appears below the Terminated check box. Select multiple options as required.
 - Severity—Select the severity level:
 - 1: Catastrophic.
 - 2: Severe
 - 3: Moderate
 - 4: Minor
 - 5: Cosmetic
 - 6: Enhancement

- Rating—Select the bug’s quality rating: **5 Stars** (excellent), **4 or more Stars** (good), **3 or more Stars** (medium), **2 or more Stars** (moderate), **1 or more Stars** (poor), or **No Stars**.
- Support Cases—Select whether the bug **Has Support Cases** or **No Support Cases**.
- Bug Type—Select whether the bug is **Employee Visible & Customer Visible** or **Customer Visible Only**.

Step 5 The Bug Toolkit displays the list of bugs based on the specified search criteria.

Step 6 You can save or email the current search by clicking their respective option.

If you have any problems using the Bug Search tool, log into the Technical Support website at <http://www.cisco.com/cisco/web/support/index.html> or contact the Cisco Technical Assistance Center (TAC).

Upgrading to Release 3.2.6

The supported upgrade paths are the following:

- Release 2.5.2 to Release 3.2.6
- Release 2.5.3 to Release 3.2.6
- Release 2.5.5 to Release 3.2.6
- Release 2.5.6 to Release 3.2.6
- Release 2.5.7 to Release 3.2.6
- Release 3.0.1 to Release 3.2.6
- Release 3.0.2 to Release 3.2.6
- Release 3.2.1 to Release 3.2.6
- Release 3.2.2 to Release 3.2.6
- Release 3.2.3 to Release 3.2.6
- Release 3.2.4 to Release 3.2.6

If the CDS is running an earlier software release, you must first upgrade to one of the supported releases before upgrading to Release 3.2.6.


For software upgrade procedures, see the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.

Upgrading to Cisco VDS-TV Release 3.2.6

For the upgrade sequence of the VDS devices in your system (CDSM/VVIM and VDS servers [Vault, Streamer, Caching Node, ISV]), see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.

Upgrading to Cisco VDS-TV Release 3.2.6 for ISA Deployment

To upgrade a VDS device, do the following:

-
- Step 1** Download the ISO image file (CDS-TV-3.2.6-.iso) and the cdsinstall-3.2.6 script from the Cisco Software Download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.
- Step 2** For the VDS servers, offload the device before upgrading the software.
- From the CDSM GUI, choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
 - From the **Server IP** drop-down list, select the IP address or nickname of the sever and click **Display**.
 - From the **New Server Status** drop-down list, select **Offline** for a Streamer or Caching Node, select **Offline (No Ingest & Fill)** for a Vault.
 - Click **Submit**.
 - Ensure the VDS server has been offloaded by checking the protocol timing log.
- Step 3** Log in to the VDS server as user *root*.
- Step 4** For VDS servers, before installing the image file, stop the database with the following command:
- ```
db_shutdown
```
- Wait until the following command returns no output:
- ```
# netstat -an | grep 9999 and #pgrep avbdb
```
- Step 5** Copy the ISO image file and the cdsinstall-3.2.6 script to the VDS server.
- ```
scp -p <user>@<remote_ip_address>:CDS-TV-3.2.6.iso /
scp -p <user>@<remote_ip_address>:cdsinstall-3.2.6 /
```
- Take backup of statsd.conf file in VDS servers.
- ```
# cp /etc/statsd.conf /etc/statsd.conf.bak
```
- Step 6** Run the cdsinstall script to upgrade the ISO image to Release 3.2.6.
- ```
cd /root
./cdsinstall-3.2.6 CDS-TV-3.2.6.iso
```
- Step 7** For the CDSM or VVIM, when the script is completed, make sure database is not running and reboot the controller.
-  **Note** Above change applies to all releases.
- 
- Step 8** For the CDSM or VVIM, log in to the GUI as a user with Engineering access level and configure the settings on the CDSM Setup page.



**Step 9** For VDS servers, create a directory

```
mkdir /var/run/arroyo
chmod go+rx /var/run/arroyo
```



**Note**

Follow the above step to avoid getting the below error in the avfdb.log that may cause unnecessary log growth.

```
sample.log <Hostname> /home/isa/Berkeley/avfdb:thread_tracking.c:update_thread_info_file():910:
ERROR: unable to update thread information file /var/run/arroyo/thread_info; lseek() errno = 9 (Bad file
descriptor)
```

Start DB and statsd

```
su - isa

#exit

/home/stats/statsd -d eth0 -s <subnetmask IP> -i <VIP>
```

Wait till statsd connects to avfdb and both are operational

Submit Server Interface Setup page for this VDS server from GUI

**Configure -> Server Level -> Interface Setup**

Make sure the `/arroyo/test/<server type>/setupfile` is updated with the e1000e driver for the 1 Gig cache fill interfaces

Shutdown DB

```
#db_shutdown
```

Replace the stats.conf with backup

```
cp /etc/statsd.conf.bak /etc/statsd.conf
#Type : yes
```

Reboot the server

```
#reboot
```

**Step 10** Start services one by one from `/etc/rc.local` (if applicable)

**Step 11** For VDS servers, after the VDS server has been verified as reachable, return the server to online.

- a. Choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
- b. From the **Server IP** dropdown list, select the IP address or nickname of the server and click **Display**.
- c. Choose **Online** and click **Submit**.
- d. Verify the VDS server is online by viewing the status on the **Monitor > System Level > System Health** page.

## Upgrading to Cisco VDS-TV Release 3.2.6 for RTSP Deployment

To upgrade a VDS device, do the following:

- 
- Step 1** Download the ISO image file (CDS-TV-3.2.6-.iso) and the cdsinstall-3.2.6 script from the Cisco Software Download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.
- Step 2** For the VDS servers, offload the device before upgrading the software.
- From the CDSM GUI, choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
  - From the **Server IP** drop-down list, select the IP address or nickname of the sever and click **Display**.
  - From the **New Server Status** drop-down list, select **Offline** for a Streamer or Caching Node, select **Offline (No Ingest & Fill)** for a Vault.
  - Click **Submit**.
  - Ensure the VDS server has been offloaded by checking the protocol timing log.

**Step 3** Log in to the VDS server as user *root*.

**Step 4** For VDS servers, before installing the image file, stop the database with the following command:

```
db_shutdown
```

Wait until the following command returns no output:

```
netstat -an | grep 9999 and #pgrep avbdb
```

**Step 5** Copy the ISO image file and the cdsinstall-3.2.6 script to the VDS server.

```
scp -p <user>@<remote_ip_address>:CDS-TV-3.2.6.iso /
scp -p <user>@<remote_ip_address>:cdsinstall-3.2.6 /
```

**Step 6** Run the cdsinstall script to upgrade the ISO image to Release 3.2.6.

```
cd /root
./cdsinstall-3.2.6 CDS-TV-3.2.6.iso
```

**Step 7** For the CDSM or VVIM, when the script is completed, make sure database is not running and reboot the controller.




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**Note** Above change applies to all releases.

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**Step 8** For the CDSM or VVIM, log in to the GUI as a user with Engineering access level and configure the settings on the CDSM Setup page.

**Step 9** For VDS servers, start DB and statsd

```
su - isa -c "arroyo start avbdb" >& /dev/null
/home/stats/statsd.bin -i <Server IP> -s <subnet mask> -d eth0
```

Wait till statsd connects to avbdb and both are operational

Submit Server Interface Setup page for this VDS server from GUI

**Configure -> Server Level -> Interface Setup**

Make sure the /arroyo/test/<server type>/setupfile is updated with the e1000e driver for the 1 Gig cache fill interfaces

Shutdown DB  
Reboot the server

```
pgrep avbdb
reboot
```

**Step 10** After server has come up, start the services as per the sequence in the `/etc/rc.local`,  
Start avbdb

```
su - isa -c "arroyo start avbdb" >& /dev/null
```

Start avlauncher to start setup and control IP (incase if the VDS server is streamer)

```
/usr/bin/avlauncher >& /arroyo/log/avlauncher.out&
```

Start cserver

```
/arroyo/test/run
```

Start FSI application (incase if the VDS server is vault)

```
su - isa -c "arroyo start fsi ns nfs aim" >& /dev/null
```

Start statsd

```
/home/stats/statsd.bin -i <Server IP> -s <subnet mask> -d eth0
```

**Step 11** For VDS servers, after the VDS server has been verified as reachable, return the server to online.

- Choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
- From the **Server IP** dropdown list, select the IP address or nickname of the server and click **Display**.
- Choose **Online** and click **Submit**.

Verify the VDS server is online by viewing the status on the **Monitor > System Level > System Health** page.

## Downgrading from Release 3.2.6

For the downgrade sequence of the VDS devices in your system (CDSM/VVIM and VDS servers [Vault, Streamer, Caching Node, ISV]), see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.

### Downgrading from Release 3.2.6 for ISA Deployment

To downgrade a VDS device, do the following:

- 
- Step 1** Download the ISO image file (for example, `CDS-TV-2.5.6.iso`) and the `cdsinstall` script (for example, `cdsinstall-2.5.6`) for Release 2.5.2, 2.5.3, 2.5.5, 2.5.6, 3.0.1, 3.0.2, 3.2.1 or 3.2.2 from the Cisco software download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.
- Step 2** For VDS servers, offload the server (see [Step 2](#) in “[Upgrading to Cisco VDS-TV Release 3.2.6 for ISA Deployment](#)”).
- Step 3** Log in to the VDS device as user root.
- Step 4** For VDS servers, before installing the image file, stop the database with the following command:

```
db_shutdown
```

Wait until the following command returns no output:

```
netstat -an | grep 9999 and #pgrep avbdb
```

Take backup of statsd.conf file in VDS servers.

```
cp /etc/statsd.conf /etc/statsd.conf.bak
```

- Step 5** Copy the ISO image file and the cdsinstall script to the /root directory and run the cdsinstall script to download the software. For example, the following commands are for downgrading to Release 2.5.6:

```
scp -p <user>@<remote_ip_address>:CDS-TV-2.5.6.iso /
scp -p <user>@<remote_ip_address>:cdsinstall-2.5.6 /
cd /root
./cdsinstall-2.5.6 CDS-TV-2.5.6.iso
```

- Step 6** For the CDSM or VVIM, when the script has completed, make sure that the database is not running and reboot the server.

- Step 7** For VDS servers, make sure that the database is not running and reboot the server.

```
pgrep avbdb
mv /etc/rc.d/rc.local /etc/rc.d/rc.local.bak
reboot
```

- Step 8** Once the VVIM/CDSM comes up after a reboot, we need to make sure to remove the file:STREAMGROUP\_MAP2.db from the DATADIR of the controller before starting the avbdb and statsd on the controller.




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**Note** Starting from the VDS-TV 3.2.3 Release, the STREAMGROUP\_MAP2.db was added to support more than 125 Vault servers in a single group.

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- Step 9** For VDS servers, after the VDS server has been came up from reboot, start DB, statsd, submit the interface setup page and start cserver

```
su - isa
/home/stats/statsd -d eth0 -s <subnetmask IP> -i <VIP>
```

Wait till statsd connects to avbdb and both are operational

Submit Server Interface Setup page for this VDS server from GUI

**Configure -> Server Level -> Interface Setup**

Start avslauncher to start setup and control IP (incase if the VDS server is streamer)

```
/usr/bin/avslauncher >& /arroyo/log/avslauncher.out&
```

Start cserver

```
/arroyo/test/run
```

Start ISA services (incase if the VDS server is ISA running vault or Streamer)

```
#su - isa -c "cd /home/isa/IntegrationTest; ./run_isa_boot >>& /arroyo/log/ns_log&"
```

Move the rc.local to the original location

```
mv /etc/rc.d/rc.local.bak /etc/rc.d/rc.local
```

- Step 10** For VDS servers, after the VDS server has been verified as reachable, return the server to online.
- Choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
  - From the **Server IP** dropdown list, select the IP address or nickname of the server and click **Display**.
  - From the **New Server Status** drop-down list, select **Online** and click **Submit**.
  - Verify the VDS server is online by viewing the status on the **Monitor > System Level > System Health** page. (see [Step 7](#) in “Upgrading to Cisco VDS-TV Release 3.2.6 for ISA Deployment” procedure).

## Downgrading from Release 3.2.6 for RTSP Deployment

To downgrade a VDS device, do the following:

- Step 1** Download the ISO image file (for example, CDS-TV-2.5.6.iso) and the cdsinstall script (for example, cdsinstall-2.5.6) for Release 2.5.2, 2.5.3, 2.5.5, 2.5.6, 3.0.1, 3.0.2, 3.2.1 or 3.2.2 from the Cisco software download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV CDS 3.2 Installation, Upgrade, and Maintenance Guide*.
- Step 2** For VDS servers, offload the server (see [Step 2](#) in “Upgrading to Cisco VDS-TV Release 3.2.6 for RTSP Deployment”).
- Step 3** Log in to the VDS device as user root.
- Step 4** For VDS servers, before installing the image file, stop the database with the following command:

```
db_shutdown
```

Wait until the following command returns no output:

```
netstat -an | grep 9999 and #pgrep avsdB
```

- Step 5** Copy the ISO image file and the cdsinstall script to the /root directory and run the cdsinstall script to download the software. For example, the following commands are for downgrading to Release 2.5.6:

```
scp -p <user>@<remote_ip_address>:CDS-TV-2.5.6.iso /
scp -p <user>@<remote_ip_address>:cdsinstall-2.5.6 /
cd /root
./cdsinstall-2.5.6 CDS-TV-2.5.6.iso
```

- Step 6** For the CDSM or VVIM, when the script has completed, make sure that the database is not running and reboot the server.
- Step 7** For VDS servers, make sure that the database is not running and reboot the server..

```
pgrep avsdB
```

```
reboot
```

- Step 8** Once the VVIM/CDSM comes up after a reboot, we need to make sure to remove the file:STREAMGROUP\_MAP2.db from the DATADIR of the controller before starting the avsdB and statsd on the controller.



**Note** Starting from the VDS-TV 3.2.3 Release, the STREAMGROUP\_MAP2.db was added to support more than 125 Vault servers in a single group.

- Step 9** For VDS servers, after the VDS server has been came up from reboot, start DB, statsd, submit the interface setup page and start cserver

```
su - isa -c "arroyo start avfdb" >& /dev/null
/home/stats/statsd.bin -i <Server IP> -s <subnet mask> -d eth0
```

Wait till statsd connects to avfdb and both are operational

Submit Server Interface Setup page for this VDS server from GUI

**Configure -> Server Level -> Interface Setup**

Start avlauncher to start setup and control IP (incase if the VDS server is streamer)

```
/usr/bin/avlauncher >& /arroyo/log/avlauncher.out&
```

Start cserver

```
/arroyo/test/run
```

Start FSI application (incase if the VDS server is vault)

```
su - isa -c "arroyo start fsi ns nfs aim" >& /dev/null
```

- Step 10** For VDS servers, after the VDS server has been verified as reachable, return the server to online.
- Choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
  - From the **Server IP** dropdown list, select the IP address or nickname of the server and click **Display**.
  - From the **New Server Status** drop-down list, select **Online** and click **Submit**.

Verify the VDS server is online by viewing the status on the **Monitor > System Level > System Health** page. (see [Step 7](#) in “[Upgrading to Cisco VDS-TV Release 3.2.6 for RTSP Deployment](#)” procedure).

## Related Documentation

Refer to the following documents for additional information about the Cisco VDS-TV 3.2:

- *Cisco VDS-TV 3.2 ISA Software Configuration Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cda/tv/3\\_2/configuration/isa\\_guide/tv\\_cds\\_3\\_2\\_isa\\_config.html](http://www.cisco.com/en/US/docs/video/cds/cda/tv/3_2/configuration/isa_guide/tv_cds_3_2_isa_config.html)
- *Cisco VDS-TV 3.2 RTSP Software Configuration Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cda/tv/3\\_2/configuration/rtsp\\_guide/tv\\_cds\\_3\\_2\\_rtsp\\_config.html](http://www.cisco.com/en/US/docs/video/cds/cda/tv/3_2/configuration/rtsp_guide/tv_cds_3_2_rtsp_config.html)
- *Cisco VDS-TV 3.2 API Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cda/tv/3\\_2/developer\\_guide/tv\\_cds\\_3\\_2\\_api\\_guide.html](http://www.cisco.com/en/US/docs/video/cds/cda/tv/3_2/developer_guide/tv_cds_3_2_api_guide.html)
- *Cisco VDS-TV 3.2 Installation, Upgrade, and Maintenance Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cda/tv/3\\_2/installation\\_guide/TV\\_cds\\_3\\_2\\_install\\_upgrade\\_maint.html](http://www.cisco.com/en/US/docs/video/cds/cda/tv/3_2/installation_guide/TV_cds_3_2_install_upgrade_maint.html)
- *Cisco Content Delivery Engine 205/220/250/420 Hardware Installation Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cde/cde205\\_220\\_420/installation/guide/cde205\\_220\\_420\\_hig.html](http://www.cisco.com/en/US/docs/video/cds/cde/cde205_220_420/installation/guide/cde205_220_420_hig.html)




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**Note** CDE460 is not applicable for Cisco VDS-TV 3.2.5 Release.

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- *Cisco Content Delivery Engine 110 Hardware Installation Guide*  
[http://www.cisco.com/en/US/docs/video/cds/cde/cde110/installation/guide/cde110\\_install.html](http://www.cisco.com/en/US/docs/video/cds/cde/cde110/installation/guide/cde110_install.html)
- *Regulatory Compliance and Safety Information for Cisco Content Delivery Engines*  
[http://www.cisco.com/en/US/docs/video/cds/cde/regulatory/compliance/CDE\\_RCSI.html](http://www.cisco.com/en/US/docs/video/cds/cde/regulatory/compliance/CDE_RCSI.html)
- *Open Source Used in VDS-TV 3.2*  
[http://www.cisco.com/en/US/products/ps12653/products\\_licensing\\_information\\_listing.html](http://www.cisco.com/en/US/products/ps12653/products_licensing_information_listing.html)

The entire VDS software documentation suite is available on Cisco.com at:

[http://www.cisco.com/en/US/products/ps7127/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps7127/tsd_products_support_series_home.html)

The entire VDS hardware documentation suite is available on Cisco.com at:

[http://www.cisco.com/en/US/products/ps7126/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/ps7126/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, at:

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

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

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