



# Release Notes for Cisco TV VDS 3.4

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**OL-30870-02**

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These release notes describe the features and caveats for all releases in the Cisco TV VDS Release 3.4 train.

These release notes are updated with each release in the train. This update adds information for Cisco TV VDS Release 3.4.2. For a list of the caveats that apply to this release, see the [“Caveats” section on page 5](#).

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## New Features

These sections list the new features supported by the Cisco TV VDS:

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## New Hardware Features in Cisco VDS TV Release 3.4.1

### CDE470 Hardware Support

The Cisco TV VDS Release 3.4 introduces CDE470 Hardware support that allows Digital Video Recording storage in a high capacity cloud. See the [Cisco Content Delivery Engine 205/220/250/420/460/470 Hardware Installation Guide](#).

### Video On Demand

The Cisco TV VDS Release 3.4 is enhanced to further support Multi-Bitrate ATS and IP Delivery via the Videoscape Origin Server (VOS) and Content Delivery Network (CDN) to the IP Client.

### CDD Storage Management Utility

The CDD Storage Management utility (CDDM) for VDS-TV's Content Delivery Devices (CDD) is a new and robust interface for reporting device attributes and statistics, and to manage devices in events such as device failure, device identification, device suspension, device removal, device failure prediction and replacement. It is available from the Linux prompt as any other Linux utility. See its *man* page for details.

### SCTE35 Detection and Reporting

The Cisco TV VDS 3.4 Release supports the correct detection, reporting and filtering of signal packets. In addition, corrects Splice Out/In points reporting to Recorder Manager. The Recorder will have to filter out any invalid or duplicated signal packets to make sure Recorder Manager & CNS receives the correct SCTE35 Splice In and Splice Out points. Recorder will also log and report drop statistics due to detection of invalid signal points. The detection will be done in recorder's ingest process and only consider SCTE-35 time signal messages without supporting SCTE-35 splice insert messages anymore. In the time signal message, NPT will be derived from the PTS in the time signal and signal id will be retrieved from the segmentation descriptor of the same message. If there are multiple SCTE-35 PIDs, recorder will only consider the first SCTE-35 PID. Recorder Manager can simply pass the correct Splice Out/In points received via R8 interface and report as part of RecordingInfo message to CNS via C3 interface without significant effort.

### White Space / Carriage Return Removal

A new tunable was introduced to control formatting of XML entity bodies for HTTP requests and responses. This new tunable is named `/proc/calypso/tunables/xml_pretty_print`, and by default is set to zero. To be compatible with some XML parsers, XML response bodies cannot have whitespace that could be used to format the XML in a way that is more human readable. With this tunable set to zero, human readable XML is not generated, and whitespace such as carriage returns, new lines and tabs are not inserted into the XML body.

The affected XML bodies are:

- C2 Locate Request
- C2 Locate Response
- C2 Describe Request
- C2 Describe Response

- C2 Delete Transfer ID Request
- Generic HTTP MPD Response

## Multi-Purpose port support

This feature allows the Cserver and Linux network stacks share the 10GbE hardware while using the same IP address/Subnet information. Packets intended for Linux and Cserver are filtered by hardware and directed to their respective queues without cross-contamination. This helps to leverage the wide bandwidth available with the 10GbE hardware without the need for additional hardware for specific purposes.

## New Hardware Features in Cisco VDS TV Release 3.4.2

### ATIS C2 Server Support

The Cisco TV VDS Release 3.4 expands on client (Streamer) side support for Alliance for Telecommunications Industry Solutions (ATIS) C2.

It introduces the ATIS C2 in the server (Vault) side. This support will enable the Cisco Vaults to serve content to third party streamers in addition to Cisco streamer's capability to stream contents from third party servers. These ATIS C2 enabled Vaults will be serving as National Vaults, which will be controlled by a VVIM unlike the Local VoD market's vault which is controlled by CDSM.

Cisco's Vault will act as ATIS C2 server where it can ingest contents (ATIS indexing) and serve contents to Cisco's streamer via ATIS C2. This ATIS enabled vault is at the national level. Local VoD market will remain the same. Once the content is provisioned and ingested in ATIS index format in the national vault, Local VoD market's vault will provision the same, thereby triggering the code flow path supported for earlier releases.

A new index format is added to the **Configure > Server Level > Server Setup Page**. The user can view the index format as **ATIS** based on the ATIS C2 mode field configured in the CDSM Setup page.

A new Interface type is added to the Vault Server to configure the locate interface for ATIS C2 Server setup. This setting will be available to configure via the **Configure > Server Level > Interface Setup Page**.

A new provision is added for the user to configure the Location virtual IP and Subnet mask for that particular vault group. This setting will be available via the **Configure > Array Level > Vault Group Setup page**.

#### ATIS Media Resource Requirements

Each media resource in an ATIS environment has a MediaResourceSet consisting of the following:

- Base media file, also called the 1X file.
- Media Resource Metadata (MRM) file in XML format, which has information about the presence and location (URI) of trick-mode files and index files.
- Index file (ATIS standard index file), which has information about the 1X file, properties of the MPEG TS, Index data for Entry/Exit points in the 1X file, and associated trick-mode file.

## DNS Support

Currently VDS-TV supports host name resolution based on the `/etc/hosts` file. Starting from Release 3.4, as a more dynamic way to resolve host name, VDS-TV supports DNS lookup based host name resolution.

A new field is added to the **Maintain > Software > VVIM Setup Page**, to fill the Domain Name details, under the ATIS C2 Support division itself.

## Asset Ingest Manager Support

The Cisco TV VDS Release 3.4 provisions the support to publish ATIS packages. These functionalities will be carried out by Asset Ingest Manager (AIM) with critical supports from Management Components like Virtual Video Infrastructure Manager (VVIM) and Database.

The AIM ensures ingestion by facilitating transfer of content and metadata or control information between the various components on the Recorder Vaults at a National Site.

A new button is added to the **Maintain > Software > CDSM/VVIM Setup page** to enable or disable the ATIS C2 setup. In order to differentiate ATIS Server and Client, select from a drop-down list that includes options as None, Client and Server.

The user can specify a list of VOD market sites under **Configure > System Level > VOD Market Sites**, to register the list of VOD Market site

A new option is added to the **Maintain > Software > System Configs** for the user to set default values for AIM. The user can then navigate to **Configure > System Level > Ingest Manager page** to set the remaining configuration details for AIM.

A new provision had been added for the publish mode. This setting will be available via the **Configure > System Level > Ingest Manager Page**. AIM will support **auto publish mode**. Enabling this mode from GUI will let AIM to automatically publish packages to the configured VOD Market Sites at the end of each successful package ingest.

The user can view the package publish status for a particular package via the **Monitor > System Level**.

The user can also view a list of Unpublished Packages, their corresponding VOD Market sites and the retry count information via the **Monitor > System Level**.

## Package Status Support

The Cisco TV VDS Release 3.4.2 introduces changes to GUI, The package details can be viewed on the Package Publish Status Monitor screen which can be access via **Under Monitor > System Level > Package Publish Status**. Publish status can be viewed in two modes:

- Package name
- VOD Market Site

A auto completion list replaces what was previously a drop down list. A list of package names appears as the first character of the package name is typed in the text box. To view the publish status click **Display**.

## Package Expiration Support

The Cisco TV VDS Release 3.4.2 introduces changes to GUI, The package details can be viewed and deleted on the Package Expiration Monitor screen which can be access via **Under Monitor > System Level > Package Expiration page**.

# Supported Environments

Release 3.4 of the Cisco TV VDS supports both the ISA and RTSP environments. Some RTSP environment features are only applicable to certain RTSP Deployment Types.

## System Requirements

The Cisco TV VDS Release 3.4 runs on the CDE110, CDE220, CDE250, CDE420, CDE460 and CDE470. See the [Cisco Content Delivery Engine110 Hardware Installation Guide](#), and the [Cisco Content Delivery Engine 205/220/250/420/460/470 Hardware Installation Guide](#).

The Cisco TV VDS Release 3.4 does not run on the CDE100, CDE200, CDE300, and CDE400 hardware models.



### Note

If you are using Internet Explorer 8 to access the CDSM GUI, for the online help to display correctly, you need to turn on Compatibility View. To turn on Compatibility View in Internet Explorer 8, choose **Tools > Compatibility View**.

## Caveats

Caveats describe unexpected behavior in Cisco VDS software releases. Severity 1 caveats are the most serious caveats; severity 2 caveats are less serious. Severity 3 caveats are moderate caveats, and only selected severity 3 caveats are included in the caveats document.

Caveat numbers and brief descriptions for Cisco VDS TV Release 3.4.0-based releases are listed in this section.

## Open Caveats for Cisco VDS TV Release 3.4.2

[Table 3](#) lists the open issues in the VDS-TV 3.4.2 release.

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

**Table 1** *Open Caveats in VDS-TV 3.4.2 Release*

Bug ID	Description
<a href="#">CSCum08886</a>	Fsi unable to connect to DB after fsi service is restarted
<a href="#">CSCul71920</a>	342- SCTE messages are not reflected in server database
<a href="#">CSCum46362</a>	Recorder hits KDB after shutdown ingest/cache interface

## Resolved Caveats Cisco VDS TV Release 3.4.2

[Table 3](#) lists the fixed issues in the VDS-TV 3.4.2 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 3.4.2 Release*

Bug ID	Description
<a href="#">CSCul01591</a>	3.4Recorder R3:Should return PENDING state for PENDING recording
<a href="#">CSCui74645</a>	Primary role fails over on streamers with external CPU and IO pressure
<a href="#">CSCuj85960</a>	340B158:CDE460: Cant sustain 18.2Gbps recording/7.72Gbps static streams
<a href="#">CSCuj96495</a>	3.4 After restoring ISR config, arrayid is lost
<a href="#">CSCul01727</a>	3.4 doesn't import some fields on RTSP Setup page
<a href="#">CSCul06653</a>	3.4ISR CDE470:All the 10K recordings are stop due to over load
<a href="#">CSCul09436</a>	3.4Recorder R3:Should NOT return 400 for GetRecordingEventList request
<a href="#">CSCul71307</a>	Publish button is not working in View Rules page

## Open Caveats for Cisco VDS TV Release 3.4.0

[Table 3](#) lists the open issues in the VDS-TV 3.4.0 release.

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

**Table 3** *Open Caveats in VDS-TV 3.4.0 Release*

Bug ID	Description
<a href="#">CSCul04489</a>	3.4: log printed to screen about mgmt/control adapter is wrong
<a href="#">CSCuj85960</a>	340B158:CDE460: Cant sustain 18.2Gbps recording/7.72Gbps static streams
<a href="#">CSCuj96495</a>	3.4 After restoring ISR config, arrayid lost
<a href="#">CSCul01727</a>	3.4 Couldn't import some fields on RTSP Setup page
<a href="#">CSCuj90390</a>	Cisco TV VDS may be vulnerable to publish vulnerabilities
<a href="#">CSCui74645</a>	Primary role failed over on streamers with external CPU and IO pressure
<a href="#">CSCul06653</a>	3.4ISR CDE470:All the 10K recordings are forced to stop with heavy load
<a href="#">CSCul09436</a>	3.4Recorder R3:Should NOT return 400 for GetRecordingEventList request.

## Resolved Caveats Cisco VDS TV Release 3.4.0

Table 3 lists the fixed issues in the VDS-TV 3.4.0 release.

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

**Table 4** Open Caveats in VDS-TV 3.4.0 Release

Bug ID	Description
<a href="#">CSCul01591</a>	3.4Recorder R3:Should return PENDING state for PENDING recording
<a href="#">CSCui39657</a>	3.4.0-b41 Can't open hyperlink of help on the head of CDSM page
<a href="#">CSCui90742</a>	340:Import for recording settings page is not working as expected

## Accessing Bug Search Tool

This section explains how to use the Bug Search tool 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: 3.4.
- 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 Cisco VDS-TV Release 3.4.2

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 VDS 3.4 Installation, Upgrade, and Maintenance Guide*.

To upgrade a VDS device, do the following:

- 
- Step 1** Download the ISO image file (VDS-TV-3.4.x-.iso) and the cdsinstall-3.4 script from the Cisco Software Download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV VDS 3.4 Installation, Upgrade, and Maintenance Guide*.
- Step 2** For the VDS servers, offload the device before upgrading the software.
- a. From the CDSM GUI, choose **Maintain > Servers > Server Offload**. The Server Offload page is displayed.
  - b. From the **Server IP** drop-down list, select the IP address or nickname of the sever and click **Display**.
  - c. From the **New Server Status** drop-down list, select **Offline** for a Recorder or Streamer or Caching Node, select **Offline (No Ingest & Fill)** for a Vault.
  - d. Click **Submit**.
  - e. Ensure the VDS server is 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-3.4 script to the VDS server.

```
# scp -p <user>@<remote_ip_address>:CDS-TV-3.4.iso /
# scp -p <user>@<remote_ip_address>:cdsinstall-3.4 /
```

**Step 6** Run the cdsinstall script to upgrade the ISO image to Release 3.4.

```
# cd /root
# ./cdsinstall-3.4 /CDS-TV-3.4.iso
```

**Step 7** For the CDSM or VVIM, when the script has completed, reboot the server.

**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
Move the rc.local to the original location

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

Start Recorder application (if the VDS server is Recorder)

```
# su - isa -c "arroyo start recsvr" >& /dev/null
# su - isa -c "arroyo start dnsresolver" >& /dev/null
```

**Step 11** For VDS recorder, if the upgrade is from any version lower than 3.4.2 to version 3.4.2, DB conversion is required.

a. Shutdown avbdb

```
# db_shutdown
```

b. Backup DATADIR

```
# cd /arroyo/db/
# cp -rf DATADIR DATADIR-bk
```

c. Restart avbdb

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

d. Dump recording profiles data

```
# /arroyo/db/AVSDBUtil
```

Enter: 8, 10, 5 respectively by following the command prompts



#### Note

- 8: RECORDER DB
- 10: Dump All RecordingProf
- 5: Verbose (file)
- the dump file "RecordingProfDump.txt" is generated in /arroyo/db/ directory.

e. Run check and convert data

```
# /arroyo/db/AVSDBUtil
```

Enter: 8, 12, 1, respectively by following the command prompts

Notes:



#### Note

- 8: RECORDER DB
- 12: Check Recording Index
- 1: Convert index
- Following files are generated in /arroyo/db/ for debug purpose

- RecordingProfConv.txt

Example of RecordingProfConv.txt:

*"Delete operation successfully completed: 01497a2eae41e67819099da7fd8d0bf8\_1306168*

*Add operation successfully completed: 01497a2eae41e67819099da7fd8d0bf8\_Profile5"*

- RecordingProfIndex.txt

Example of RecordingProfIndex.txt:

*"Name: 01497a2eae41e67819099da7fd8d0bf8\_1306168"*

**Step 12** For VDS servers, after the VDS server is 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.

## Downgrading from Release 3.4.2

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 VDS 3.4 Installation, Upgrade, and Maintenance Guide*.

To downgrade a VDS device, do the following:

- 
- Step 1** Download the ISO image file (for example, VDS-TV-3.3.2.iso) and the cdsinstall script (for example, cdsinstall-3.3.2) for Release 3.4 from the Cisco software download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV VDS 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 3.4.2”).
- Step 3** Log in to the VDS device as user root.
- Step 4** For VDS recorder, disable RAID on 3.4
- ```
# echo 0 > /proc/calypso/tunables/allowvaultraid
```
- Make sure RAID is disabled by the “RS=0” parameter in the /arroyo/log/protocoltiming.log.
- ```
# tail -f /arroyo/log/protocoltiming.log | grep RS= RS=0 Active=0:0 read=0 write=0 (12:2)
```
- Step 5** For VDS recorder, downgrade the file system to support 3MB allocation unit for 3.3.2 code
- Issue the following command to downgrade the file system
- ```
# echo 107 > /proc/calypso/tunables/cm_logserverinfo
```
- Wait for the message “**Downgrade of file system complete**” on the console indicating that the file system downgrade is complete.
- ```
# Downgrade of file system complete
```
- Step 6** For VDS recorder, if the downgrade is from any version lower than 3.4.2 to any lower version (such as 3.4.1, 3.3.2), DB conversion is required.
- a. Shutdown avbdb
 

```
# db_shutdown
```
  - b. Backup DATADIR
 

```
# cd /arroyo/db/
# cp -rf DATADIR DATADIR-bk
```
  - c. Restart avbdb
 

```
# su - isa -c "arroyo start avbdb" >& /dev/null
```
  - d. Run check and convert data
 

```
# /arroyo/db/AVSDBUtil
```

Enter: 8, 12, 2 respectively by following the command prompts



### Note

- 8: RECORDER DB

- 12: Check Recording Index
- 2: Reverse conversion
- Following files are updated in /arroyo/db/ for debug purpose
  - RecordingProfConv.txt

Example of RecordingProfConv.txt:

*"Add operation successfully completed: 01497a2eae41e67819099da7fd8d0bf8\_1306168*

*Delete operation successfully completed: 2e958999bb43ee013d93cbab4468c2d8\_Profile1"*

- RecordingProfIndex.txt

Example of RecordingProfIndex.txt:

*"Name: 01497a2eae41e67819099da7fd8d0bf8\_Profile1"*

**Step 7** For VDS recorder, 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 8** 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 3.3.2:

```
# scp -p <user>@<remote_ip_address>:CDS-TV-3.3.2.iso /
# scp -p <user>@<remote_ip_address>:cdsinstall-3.3.2 /
# cd /root
# ./cdsinstall-3.3.2 /CDS-TV-3.3.2.iso
```

**Step 9** For the CDSM or VVIM, when the script has completed, reboot the server.

**Step 10** For VDS servers, make sure that the database is not running and reboot the server.

```
# pgrep avsdb
# mv /etc/rc.d/rc.local /etc/rc.d/rc.local.bak
# reboot
```

**Step 11** For VDS servers, after the VDS server has come up from reboot, start DB, statsd, submit the interface setup page and start cserver

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

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

Wait till statsd connects to avsdb and both are operational

Submit Server Interface Setup page for this VDS server from GUI

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

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

```
# /usr/bin/avslaucher >& /arroyo/log/avslaucher.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 Recorder application (incase if the VDS server is Recorder)

```
# su - isa -c "arroyo start recsvr" >& /dev/null
# su - isa -c "arroyo start dnsresolver" >& /dev/null
```

Move the rc.local to the original location

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

- Step 12** For VDS servers, after the VDS server is 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.

## Downgrading from Fresh-installed Release 3.4.2

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 VDS 3.4 Installation, Upgrade, and Maintenance Guide*.



### Note

If the VDS recorder is a brand-new device and has not registered to CDSM yet, skip the following steps 1, 2, 3, and 4.

To downgrade a VDS device, do the following:

- Step 1** Download the ISO image file (for example, VDS-TV-3.3.2.iso) and the cdsinstall script (for example, cdsinstall-3.3.2) for Release 3.4 from the Cisco software download website. For more information on downloading the software files, see the “Overview” chapter in the *Cisco TV VDS 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 3.4.2”).
- Step 3** Log in to the VDS device as user root.
- Step 4** For VDS recorder, 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 3.3.2:
- ```
# scp -p <user>@<remote_ip_address>:CDS-TV-3.3.2.iso /
# scp -p <user>@<remote_ip_address>:cdsinstall-3.3.2 /
# cd /root
# ./cdsinstall-3.3.2 /CDS-TV-3.3.2.iso
```
- Step 6** For the CDSM or VVIM, when the script has completed, reboot the server.
- Step 7** For VDS servers, make sure that the database is not running and reboot the server.
- ```
# pgrep avsdB
```

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

- Step 8** For VDS recorder, after the VDS server has come up from reboot, start DB, statsd, submit the interface setup page and start cserver

**Note**

For a brand-new VDS recorder, see the “Overview” chapter in the Cisco TV VDS 3.4 Installation, Upgrade, and Maintenance Guide for additional configuration if needed.

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

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

Wait till statsd connects to avsdB and both are operational

Submit Server Interface Setup page for this VDS server from GUI

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

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

```
# /usr/bin/avslaucher >& /arroyo/log/avslaucher.out&
```

Start cserver

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

Start Recorder application (incase if the VDS server is Recorder)

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

Move the rc.local to the original location

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

- Step 9** For VDS servers, after the VDS server is 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.

## Related Documentation

Refer to the following documents for additional information about the Cisco VDS-TV 3.4:

- *Cisco VDS-TV 3.4 ISA Software Configuration Guide*
- *Cisco VDS-TV 3.4 RTSP Software Configuration Guide*
- *Cisco VDS-TV 3.4 API Guide*
- *Cisco VDS-TV 3.4 Installation, Upgrade, and Maintenance Guide*
- *Cisco VDS-TV 3.4 Release Note*
- *Cisco Content Delivery Engine 205/220/250/420 Hardware Installation Guide*
- *Cisco Content Delivery Engine 110 Hardware Installation Guide*
- *Regulatory Compliance and Safety Information for Cisco Content Delivery Engines*
- *Open Source Used in VDS-TV 3.4*

[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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