Series D9500 Switched Digital Video Servers Release Notes: Release 1.4.4

Overview

Introduction

Switched Digital Video (SDV) Server release 1.4.4-5 succeeds and carries forward all of the enhancements and features of prior SDV server releases (1.3.1, 1.3.4, 1.3.5, 1.3.6, 1.4.2, and 1.4.3).

Additional Features

Release 1.4.4-5 offers the following additional features:

- The capability to create a single configuration file that contains all zone information for all servers on a given Digital Network Control System (DNCS).
- The capability to monitor a specified configuration file and automatically load any new updates based on the date and time stamp of the configuration file.
- A Configuration Files page has been added to the SDV Server web interface through which configuration files can be loaded either on a one-time basis or as an ongoing automatic-update of a specified file.

Enhancements/Corrections

Release 1.4.4-5 includes the following enhancements/corrections:

- The Service Group ID (SGID) and Source ID (SID) have been added to the ccpConf message in the Event Log.
- The server now responds with the correct STB sessionID when it receives a request from a set-top box (STB) with an invalid Service Group.
- A source name of up to 20 characters in length can be used from any version of DNCS (4.2.0, 4.2.1, or 4.3).

- The QAMRefreshOnStartup configuration parameter default setting has been changed back to Enabled.
  - **Note:** Previous SDV Server software releases 1.4.2-13 and 1.4.3-3 had this configuration parameter set to Disabled by default. This is a Service level setting that cannot be viewed or modified via the server web interface if logged in at an Admin or User level. As such, it must be changed by Cisco authorized service personnel. Refer to *Series D9500 Switched Digital Video Servers QAMRefreshOnStartup Configuration Setting Technical Bulletin*, part number 4028085, for more information.

Installation and Upgrade Guidelines

Installation Requirements

Before performing the upgrade procedure, make sure the following requirements are met:

1 The Provisionkeys application has been run on each of the servers.

2 The desired SDV software release has already been uploaded to the DNCS via FTP and is located in the /export/home/dncs directory.

Release 1.4.4 from 1.4.2 (or Greater) Upgrade Procedure

This is a straightforward procedure that only requires installation of the new application.

Note: The preferred order for upgrading the SDV Servers is to upgrade each standby server first and then upgrade each primary server last.

Complete the following steps to upgrade the SDV software.

1 Complete the steps listed under **Installation Requirements**.

2 Download the software to the SDV Server.

From DNCS SDV Server software page, fill in the Image Download String and Image Execute String fields with the appropriate software version. Select Download to download the software to the SDV Server.

3 Reset the SDV Server process.

Note: It is preferable to reset the SDV Server process from the SDV Server's web interface "Server Configuration" screen.

Release 1.4.4 from 1.3.6 Upgrade Procedure

This procedure requires the installation of a new watchdog and the application.

Note: The preferred order for upgrading the SDV Servers is to upgrade each standby server first and then upgrade each primary server last.

Complete the following steps to upgrade the SDV software.

1 Complete the steps listed under **Installation Requirements**.

2 Download the software to the SDV Server.

From DNCS SDV Server software page, fill in the Image Download String and Image Execute String fields with the appropriate software version. Select Download to download the software to the SDV Server.

3 Terminate the SDV Server process.

Note: It is preferable to terminate the SDV Server process from the SDV Server's web interface "Server Configuration" page.

4 Stop the SDV Server watchdog application.

From a unix shell on the SDV Server to be upgraded, type the following command at the system prompt and press **Enter**:

```
/etc/init.d/tnoswdog stop
```

5 Install the server software Red Hat Packet Manager (RPM) file.

From a unix shell on the SDV Server to be upgraded, type the following commands at the system prompt and press **Enter** after each command:

```
cd /tmp
rpm -Uvh sdb-1.4.4-5.el4.i386.rpm --force
```

Note: Be sure to include the spaces in this, and other, commands.

6 Optional Step: Verify that the RPM file was installed and the new version is indeed running.

From a unix shell on the SDV Server, type the following commands at the system prompt and press **Enter** after each command:

```
cd /opt/sdb
./sdb -v
```

Result: A screen similar to the following displays showing the currently running SDV version.

```
Cisco Switched Digital Video Server
(c) Copyright 2005-2008 Cisco Systems,Inc., All Rights
Reserved.

Configuration is VALID.

SDB Version 1.4.4
```

Or, use the "-x" option with the sdb command as follows:

```
./sdb -x
```

Result: A screen similar to the following displays showing the currently running SDV version and release.

```
Cisco Switched Digital Video Server
(c) Copyright 2005-2008 Cisco Systems,Inc., All Rights
Reserved.

SDB Version-Release 1.4.4-5
```

7 Start the SDV Server watchdog application.

From a unix shell on the SDV Server just upgraded, type the following command at the system prompt and press **Enter**:

```
/etc/init.d/tnoswdog start
```

8 Start the SDV Server application in daemon mode.

From a unix shell on the SDV Server just upgraded , type the following commands at the system prompt and press **Enter** after each command:

```
cd /opt/sdb
./sdb --supervised -d
```

Release 1.4.4 from 1.3.5 Upgrade Procedure

This procedure requires the installation of a new watchdog and the application, plus the removal of persist data.

Important: Upgrading to Release 1.4.3 from 1.3.5 or earlier requires the removal of SDV Server persist data since there is a change in the database structure to accommodate the change in max tuners per set-top box from 4 to 9 and max number of QAM carriers per chassis from 16 to 48. Redundancy must be removed between the primary and secondary server(s) during the upgrade process.

Notes:

- It is best to bring the standby server on line LAST. If you bring the standby server up anytime but last you must remove redundancy once again, since the default server start-up condition is with redundancy turned on.
- The preferred order for upgrading the SDV Servers is, after removing persist data, to upgrade each primary server first and then upgrade each standby server last.

Complete the following steps to upgrade the SDV software.

1 Complete the steps listed under **Installation Requirements**.

2 Remove redundancy.

From the standby SDV Server's web interface "Primary Servers" page, select Manual in the ProtectMode column and click **Commit Changes**.

3 Download the software to the SDV Server.

From DNCS SDV Server software page, fill in the Image Download String and Image Execute String fields with the appropriate software version. Select Download to download the software to the SDV Server.

4 Disable all Service Groups on the SDV Server being upgraded.

To prepare for removing persist data on the server, we recommend that you remove all shell sessions prior to terminating the server process. This can be done via the Service Group page on the DNCS by either:

a Unchecking the "SDV Enabled" box, or

b Setting the SDV Server = None on the pull-down menu

Important: This removes the service group entirely from the SDV Server. As such, it is imperative that you keep track of the service groups being changed.

5 Terminate the SDV Server process.

Note: It is preferable to terminate the SDV Server process from the SDV Server's web interface "Server Configuration" page.

6 Stop the SDV Server watchdog application.

From a unix shell on the SDV Server to be upgraded, type the following command at the system prompt and press **Enter**:

```
/etc/init.d/tnoswdog stop
```

7 Remove the persist data.

From a unix shell on the SDV Server to be upgraded, type the following commands at the system prompt and press **Enter** after each command:

```
cd /opt/sdb
rm persistdata/sdbserver00
```

8 Install the server software Red Hat Packet Manager (RPM) file.

From a unix shell on the SDV Server to be upgraded, type the following commands at the system prompt and press **Enter** after each command:

```
cd /tmp
rpm -Uvh sdb-1.4.4-5.el4.i386.rpm --force
```

Note: Be sure to include the spaces in this, and other, commands.

9 Optional Step: Verify that the RPM file was installed and the new version is indeed running.

From a unix shell on the SDV Server, type the following commands at the system prompt and press **Enter** after each command:

```
cd /opt/sdb
./sdb -v
```

Result: A screen similar to the following displays showing the currently running SDV version.

```
Cisco Switched Digital Video Server
(c) Copyright 2005-2008 Cisco Systems,Inc., All Rights
Reserved.

Configuration is VALID.

SDB Version 1.4.4
```

Or, use the "-x" option with the sdb command as follows:

```
./sdb -x
```

Result: A screen similar to the following displays showing the currently running SDV version and release.

```
Cisco Switched Digital Video Server
(c) Copyright 2005-2008 Cisco Systems,Inc., All Rights
Reserved.

SDB Version-Release 1.4.4-5
```

10 Start the SDV Server watchdog application.

From a unix shell on the SDV Server just upgraded, type the following command at the system prompt and press **Enter**:

```
/etc/init.d/tnoswdog start
```

11 Start the SDV Server application in daemon mode.

From a unix shell on the SDV Server just upgraded , type the following commands at the system prompt and press **Enter** after each command:

```
cd /opt/sdb
./sdb --supervised -d
```

12 Re-enable all Service Groups on the SDV Server being upgraded.

Re-enable all of the service groups on the upgraded server. This can be done via the Service Group page on the DNCS by either:

a Checking the "SDV Enabled" box, or

b Setting the SDV Server = <desired primary server name> on the pull-down menu

Note: This causes provisioning to occur for each of the service groups.

13 Re-install redundancy (if required).

From the secondary SDV Server's web interface "Primary Servers" page, select Auto in the ProtectMode column and click **Commit Changes**.

Note: This step is only required if the standby server is upgraded prior to the primary server(s). If the standby server is upgraded last, when it comes back on line the protection mode will default to Auto.

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.

Cisco Systems, Inc. 678 277-1120
5030 Sugarloaf Parkway, Box 465447 800 722-2009
Lawrenceville, GA 30042 www.cisco.com

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