Reloading the Cisco D9054 HDTV Encoder Application Code Technical Reference

Overview

Introduction

This document describes the procedure required to reload the D9054 HDTV Encoder Application Code. It is highly recommended to reload the application code once a year, resolving a corrupt compact flash issue.

Audience

This document is intended for service personnel who are responsible for maintaining the D9054 HDTV Encoder.

Requirements

The following items are required prior to reloading the D9054 encoder:

- PC with IP connectivity to the D9054 encoder (normally through the PNC GUI Client)
- D9054 application code file (.pkg)
- Class B or Class C encoder IP addresses (this is found on the D9054 front panel Startup screen)
- Transport Stream Analyzer to verify the encoder ASI output

Reloading the D9054 Application Code

1. Protect the primary D9054 encoder service:

   From the PNC GUI Uplink Configuration view, drag and drop the secondary encoder to the primary encoder that needs to be updated.
2. Create a folder (for example, D9054) on the local machine and save a copy of the application code package file to the folder.
3. Verify the IP communications:
   a. Open a command prompt window.
   b. Type `ping <D9054 IP address>` and press **Enter**.

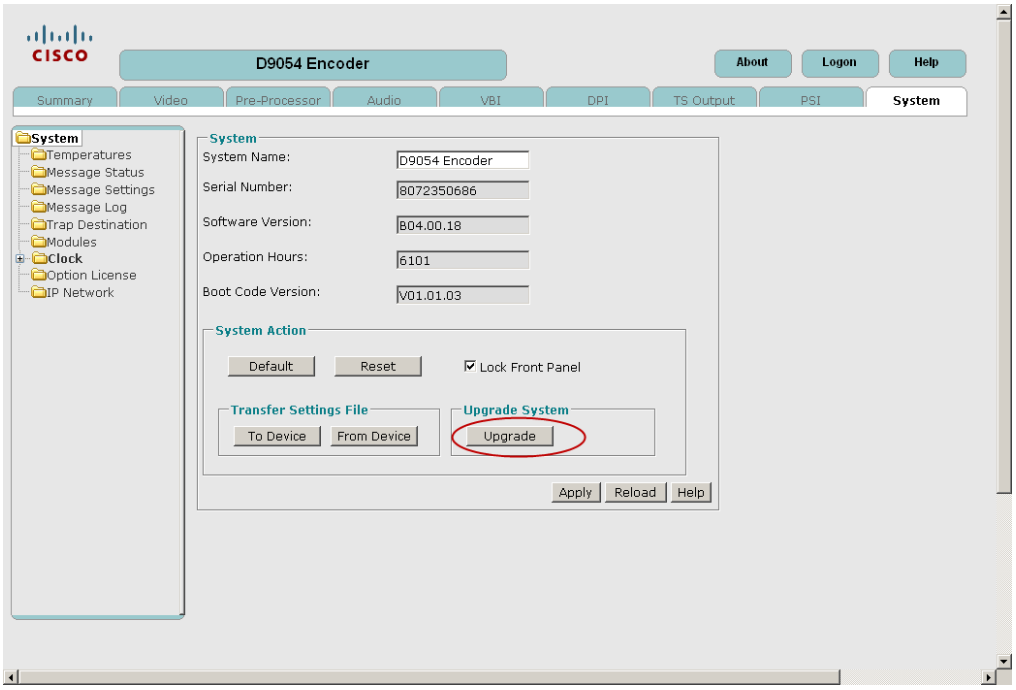
      For example: `ping 172.25.10.7`.
   c. Ensure there is a reply from the encoder. For example:

```
C:\Users\torenglab.gen>ping 172.25.10.7

Pinging 172.25.10.7 with 32 bytes of data:
Reply from 172.25.10.7: bytes=32 time=1ms TTL=64
Reply from 172.25.10.7: bytes=32 time<1ms TTL=64
Reply from 172.25.10.7: bytes=32 time<1ms TTL=64
Reply from 172.25.10.7: bytes=32 time<1ms TTL=64

Ping statistics for 172.25.10.7:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

4. Connect a TSA to the ASI monitor output of the primary encoder to observe the content. Take note of the number, type, and bandwidth information of PIDs in the output stream.
5. Reload the D9054 application code. There are two methods: web GUI or FTP. For more information on updating the application using the web GUI, see ***Reloading the D9054 Application Code using the Web GUI*** (on page 3). For more information on updating the application using FTP, see ***Reloading the D9054 Application Code using FTP*** (on page 4).
6. After you have reloaded the application code, use a Transport Stream Analyzer to verify that all the PIDs are present at the bandwidths, as noted prior to the upgrade.
7. From the PNC GUI Uplink Configuration view, drag and drop the primary encoder to the secondary encoder to restore the primary encoder to service.
8. Repeat the above procedure for all the D9054 encoders in the system.

Reloading the D9054 Application Code using the Web GUI

1. Open a web browser.
2. Type the IP address of the D9054 encoder you want to reload the application code in the address bar and press **Enter**.
3. Click the **System** tab and click **Upgrade**.



A window is displayed allowing you to enter the location of the file or browse to the file.

4. Browse to the application code package file that is locally stored and click **Transfer**. When the transfer is complete, a message is displayed indicating that the transfer was successful.
5. Click **Close**. The encoder will reboot.

   Note: The encoder is displayed as Failed on the PNC Uplink Configuration window until the reboot is complete. After the reboot, a Standby status is displayed.

For more information on upgrading the D9054 application code, refer to *Cisco D9054 HDTV Encoder Installation and Configuration Guide*.

Reloading the D9054 Application Code using FTP

1. Open a command prompt window.
2. Change the directory to the location of the application code package file.
3. Type `ftp <D9054 IP address>` and press **Enter**.
   For example: `ftp 192.133.169.1`.
4. At the Name prompt, type `sa` and press **Enter**.
5. At the Password prompt, type `sa` and press **Enter**.
6. At the ftp prompt, type `cd FDRV:/swupdate` and press **Enter**.
7. Type `pwd` and press **Enter** to verify that the current director is /swupdate.
8. Type `bin` and press **Enter**.
9. Type `put filename.pkg appl.pkg` and press **Enter**, where `filename.pkg` is the name of the stored D9054 application code package file.
10. When the transfer complete message is displayed, type `quit` and press **Enter**.
    Note: The encoder is displayed as Failed on the PNC Uplink Configuration window until the reboot is complete. After the reboot, a Standby status is displayed.

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.

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