



Cisco D9859 Advanced Receiver Transcoder Software Version 1.00 Release Note

Overview

This document describes the features, known issues, and hash digest in software version 1.00 for the Cisco® D9859 Advanced Receiver Transcoder.

Key Features

The following features are included in software version 1.00:

- Four L-band inputs
- DVB-S demodulation for QPSK
- DVB-S2 demodulation for QPSK and 8PSK
- Cisco PowerVu® conditional access with Data Encryption Standard (DES) or DVB descrambling
- Support for Basic Interoperable Scrambling System (BISS) conditional access
- Decryption and transcoding of up to eight programs for digital transport output
- Two digital transport outputs available (ASI and MPEGoIP)
- Support for up to eight simultaneous high-definition or standard-definition channels of decryption and transcoding and passthrough of the original channel. Total of 16 regenerated outputs (8 transcode + 8 passthrough)
- Program transcoding to support down-conversion of a MPEG-4 HD program to a MPEG-2 SD program
- PSI/SI regeneration support on all licensed outputs (up to eight programs transcoded + up to 8 original content pass through)
- 4:2:0 high-definition 1080i and 720p video decoding
- AFD support for down-conversion of a decoded HD program with aspect ratio conversion
- Dolby™ Digital (AC-3) and Dolby Digital Plus (E-AC-3) audio decoding
- Closed captioning passthrough of EIA-608 and EIA-708 for transcoded programs

Key Features

- Audio passthrough synchronization for transcoded programs
- Additional ASI outputs for redundancy
- MPEGoIP output for network connectivity
- DVB subtitle passthrough with transcode programs
- Contact closure terminals for simple alarm monitoring
- Simple Network Management Protocol (SNMP) for setup, control, and monitoring
- Field-upgradeable software
- Field-upgradeable additional transcoder channel licenses
- Front panel LCD for control and monitoring
- Web browser interface for easy setup, control, and monitoring
- Uplink addressable decoder output control (vertical blanking interval [VBI], audio routing, DPI, and ASI output)
- Dual-tone multifrequency (DTMF) cue tone and cue trigger outputs for ad insertion
- Digital Program Mapping that provides uplink control for service replacements in blackout areas

Known Issues

The following table describes known issues with version 1.00. Each issue is provided with a description, how it is provoked, and resolved.

ID	Description
CSCug58463	D9859 Transcode AFD Issues.
Issue	Incorrect aspect ratio conversion on the transcoded output when you set the SD A/R Conv to None.
How to provoke	<ol style="list-style-type: none"> 1 In the D9859 front panel, tune the D9859 to a H.264 720p signal (RF input) and connect the ASI output to a downstream decoder (for example, D9854). 2 Tune PE1 to a HD channel (with H.264 encoded video), with the video stream aspect ratio set to 4:3. 3 Set the ASI Output Mode to Transcoding (Setup:Outputs:TS Out:ASI and scroll to the Output Mode). 4 Set the ASI output bit rate to an appropriate value (to accommodate the program entry's output) and select Yes to re-sync the PIDs. 5 Exit the menu and save the settings. 6 Set the Video Mode in the Transcode setup menu to SD Output (Setup:Outputs:TS Out:Transcode). 7 Scroll and set the SD Aspect Ratio to 4:3. 8 Verify that the Stream Aspect ratio value (Setup:Services:Video and scroll to the Stream settings) in the downstream unit has changed to 4:3, as expected. 9 Set the SD Aspect Ratio in the Transcode menu to 16:9. 10 Verify that the Stream Aspect ratio value (Setup:Services:Video and scroll to the Stream settings) in the downstream unit has changed to 16:9, as expected. 11 Set the SD A/R Conv to None in the transcode menu. <p>The transcoded output is 4:3 P/B conversion. However, the expected conversion on the transcoded output is None.</p>
How to resolve	None.
CSCug82665	AFD override does not work for all AFD codes.
Issue	The AFD override does not work for all the AFD codes.
How to provoke	The input and output aspect ratios are different, overriding the AFD code.
How to resolve	Match the input and output aspect ratios.
CSCug82694	Input Display Aspect Ratio override issue.
Issue	Cannot override the input display aspect ratio.

Known Issues

ID	Description
How to provoke	Video stream contains irregular input display aspect ratio that is not 4:3 or 16:9.
How to resolve	None. Use the stream with 4:3 or 16:9 as the display aspect ratio.
CSCuh99628	Various web GUI Issues.
Issue	<p>The following is a list of the outstanding web GUI issues:</p> <ul style="list-style-type: none"> ■ In the Input Setup page, if the desktop has a low resolution, the Apply button and the scroll bar are not displayed. ■ HTTPS As per FVT054 (checking cipher suites in HTTPS mode). When you change the cipher suite from RC4 (default) to AES 128/256, the Web GUI cannot be opened. Only after reverting to RC4 (using telnet), the Web GUI opens again.
How to provoke	See above.
How to resolve	The front panel can be used as a workaround to most of the web GUI issues.
CSCui07148	Cannot Apply Inband Settings via web GUI.
Issue	You cannot apply inband settings using the web GUI.
How to provoke	The Apply Inband Settings button is on the Transcoder Setup page (Transport Stream > Transcoder Setup).
How to resolve	Use the front panel to apply inband settings.
CSCui30226	Bad Luma SD frequency response in down conversion.
Issue	The Luma Frequency response in transcoding is poor.
How to provoke	The SD to SD transcoding in 625i/50Hz has poor frequency response.
How to resolve	None.
CSCui38646	Web GUI: Download Abort has no real effect.
Issue	You cannot currently abort a download from the web GUI. When you abort the file transfer, it does not reset the actual Download transfer.
How to provoke	Start a download and click Abort . It does not abort the file transfer, as expected.
How to resolve	Log out of the D9859 web GUI to stop the file transfer.

D9859 Hash Digest Values

You can generate the hash digest to verify the integrity of the software and FPGA versions running on the D9859 transcoder. For more information on generating the hash digest values, see *Cisco D9859 Advanced Receiver Transcoder Software Version 1.0 Installation and Configuration Guide*.

The following is a list of the official D9859 v1.0 hash digest values:

Code/Processor	Hash Digest	Version
APP5514	f6b00adb f0d59b20 bb7b6219 1fb66445 29ee6c7e	R01.00.00DD
APP7109	c6be8fed 1b5276f1 05c6d3a4 3038e78c eae42257	R01.00.00DD
FPGA7109	edd457b4 03ccaa84 84635a9e 1704999e 733616a4	R00.00.05az

If the above values do not match the generated digest values, contact Cisco customer support.

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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