Media Path Analysis

This section explains the following:

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Media Path Analysis

This chapter provides information on the various methods to analyze media path analysis.

Analyze Media Paths Using VSAA

The Video SLA Assessment Agent (VSAA) is used in Cisco Prime Collaboration Assurance to provide network path characteristics (that is, latency, jitter, and packet loss) metrics before deploying or upgrading Cisco Video, TelePresence, or IP Video Surveillance (IPVS) systems and site extensions.

Before you begin

Note   If you have deployed Cisco Prime Collaboration Assurance in MSP mode, Media Path Analysis is not supported in a NAT environment.

Verify that the VSA Agent is up and running at the two endpoints, and synchronized to the NTP server. You can download the VSA Agent software from the Cisco Prime Collaboration Assurance software download site on Cisco.com. See Video SLA Assessment Agent 3.1 Installation Guide for the installation guidelines.

Procedure

Step 1   Choose **Diagnose** > **Media Path Analyzer**.

Step 2   Enter the required assessment details.

Step 3   Enter the Table 1: Profile Details.

Step 4   Click **Start**.

Table 1: Profile Details

Field	Description
Profile	Displays the profile settings you want to assess. RTP packets sent will be of based on the device type.
Count	Number of devices or streams you want to add to the network. You can add upto five devices.
DSCP	DSCP value indicates priority to traffic quality. The highest quality DSCP value is selected to ensure good quality video streaming.

Use CTS3000 profile to deploy CTS 3000. You can create, edit, and delete profiles.

VSA Agent Assessment Results

For the individual streams, you can view the topology (layer 2 and layer 3) for the selected direction between endpoints in the **Troubleshooting** tab.

You can view the detailed troubleshooting workflow status for the top level and the individual streams using the **Log** tab. . The VSA Agent Assessment result also provides details on the path through the Path Assessment tab. You can view the troubleshooting summary information for testable devices, nontestable device, devices with packet loss threshold violation, devices with jitter threshold violation, and devices with DSCP violation.

A set of tests are run for the devices determined during troubleshooting. To start the Path Assessment test, click **Path Assessment Tests**, after the proactive troubleshooting is complete for the conference.

The Test Result tab displays the following charts. For these charts, only the results of last twenty tests are displayed.

Test Summary

Figure 1: Test Summary

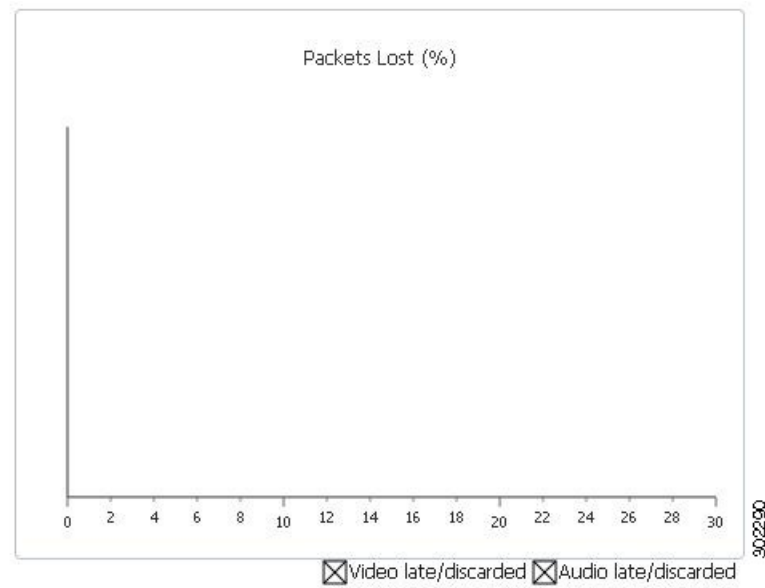| Statistics	Video Result	Audio Result
DSCP	af42(36)	af42(36)
Profile	CTS-1000	CTS-1000
Max Rate	30.02 frames/s	50.04 packets/s
Total Packets Recieved	439079 packets	44627 packets
Total Packet loss due to Network Drops	0 packets	0 packets
Maximum Seconds of Concealment	0.0 s	0.0 s
Maximum Severe Seconds of Concealment	0.0 s	0.0 s
Maximum Packet Loss	0.0 %	0.0 %
Maximum Jitter	0.01 ms	0.03 ms
Maximum Peak-to-Peak jitter	0.81 ms	0.85 ms
Maximum Peak Playout Delay	0.87 ms	0.83 ms
Maximum Latency	2.32 ms	2.31 ms
Maximum Frame Jitter Average	0.01 ms	0.0 ms
Time Obtained	2012-May-03 21:47:52 PDT	2012-May-03 21:47:52 PDT

Peak-to-Peak Jitter

Figure 2: Peak-to-Peak Jitter Graph
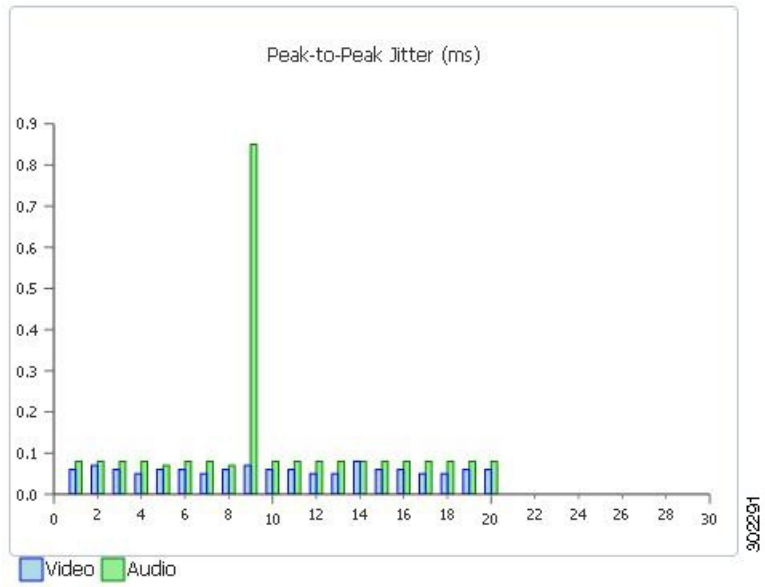
Packets Lost

Figure 3: Packets Lost Graph

Latency

Figure 4: Latency Graph