How to Get Packet Capture from VXML Gateway for Signal and Voice Analysis

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Introduction

This document describes how to get a packet capture (pcap) from a VXML Gateway for signal and voice analysis.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Unified Customer Voice Portal (CVP)
- Voice Extensible Markup Language Gateway (VXML GW)
- Wireshark tool

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Take Packet Capture on VXML Gateway

You can get a pcap to check signaling and media from the Cisco VXML GW with this procedure for interface `g0/0`. You need to change interface name in the command to the appropriate one.

```
conf t
ip traffic profile test mode capture
bidirectional
exit
```
int g0/0
ip traffic apply test size 20000000
end

traffic int g0/0 clear
traffic int g0/0 start
VXML gateway capturing traffic, so make a test call and quickly stop the packet capture.

traffic int g0/0 stop
In order to copy the pcap to an TFTP server type this command.

traffic int g0/0 copy tftp://x.x.x.x/g00.pcap
In order to copy the pcap to an FTP server type this command.

traffic int g0/0 copy ftp://username:password@x.x.x.x/g00.pcap
The screenshot shows the pcap file **port1.pcap** opened with Wireshark tool.

**Verify**

In order to verify that the packet capture is valid use this procedure.

Step 1. Filter sip signalling.

Enter sip keyword in Filter textbox.
Step 2. Open the RTP streams with Wireshark Player.

- Navigate to Telephony - Voip Calls
- Choose the call in question
- Select Player

Step 3. Click Decode.
Step 4. Playback the recording.

In order to playback the recorded conversation select the decoded graph for the call in question and select **Play**.

The procedure described can be used to troubleshoot issues with audio quality, one-way audio or dead air conditions.

These debug commands can be typed on the VXML gateway for additional diagnosis.

```
debug ccsip mess
debug ccsip error
debug voip ccapi inout
debug voip dialpeer inout
debug http client all
```
debug voip application script
debug voip application vxml
debug voip rtp session named-events
debug voip rtp sess nse
debug voip rtp