如何從VXML網關獲取用於訊號和語音分析的資料 包捕獲

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簡介

本檔案介紹如何從VXML閘道取得封包擷取(pcap)以進行訊號與語音分析。

必要條件

需求

思科建議您瞭解以下主題:

- 整合客戶語音入口網站(CVP)
- •語音可延伸標籤語言閘道(VXML GW)
- Whereshark工具

採用元件

本文件所述內容不限於特定軟體和硬體版本。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

在VXML網關上捕獲資料包

您可以使用此介面g0/0的步驟獲取pcap,以檢查來自Cisco VXML GW的信令和媒體。您需要將命 令中的介面名稱更改為相應的介面名稱。

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網關捕獲流量,因此進行測試呼叫並快速停止資料包捕獲。

traffic int g0/0 stop 若要將pcap複製到TFTP伺服器,請鍵入以下命令。

traffic int g0/0 copy tftp://x.x.x.x/g00.pcap 若要將pcap複製到FTP伺服器,請鍵入以下命令。

traffic int g0/0copy ftp://username:password@x.x.x.x/g00.pcap 螢幕截圖顯示了使用Wireshark工具開啟的pcap檔案**port1.pcap**。

e <u>E</u> dit ⊻iew <u>G</u> o	Capture Analyze Sta			
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	🖹 🕻 🗶 🔁 !	् 👳 🔿 🖗 🕹		Q. Q. 🖸 🖉 🕺 % 🛱
er:			Expression	Clear Apply Save
Time	Source	Destination	Protocol L	ength Info
1 0.000000	10.251.93.10	10.251.62.208	SSH	92 Encrypted response packet len=52
2 0.000183	10.251.93.10	10.251.100.50	TACACS+	217 Q: Accounting
3 0.003746	10.251.100.50	10.251.93.10	TACACS+	57 R: Accounting
4 0.107792	10.251.93.10	10.251.100.50	TCP	40 35576 > tacacs [ACK] seq=1 Ack=1 win=3984 Len=0
5 0.203785	10.251.93.10	10.251.100.50	TCP	40 63840 > tacacs [ACK] Seq=178 Ack=18 Win=3785 Len=0
6 0.251243	10.251.62.208	10.251.93.10	TCP	40 58357 > ssh [ACK] Seq=1 Ack=53 Win=65288 Len=0
7 1.000105	10.251.93.10	10.251.100.21	Syslog	143 LOCAL7. NOTICE: 48: 058316: Apr 6 20:58:28.410: %RITE-5-CAPTURE_START: Started IP traffic capture for int
8 1.000125	10.251.93.10	10.251.132.13	Syslog	143 LOCAL7.NOTICE: 48: 058316: Apr 6 20:58:28.410: %RITE-5-CAPTURE_START: Started IP traffic capture for int
9 5.037823	10.251.93.33	10.251.93.10	SIP	508 Request: OPTIONS s1p:10.251.93.10
10 5.038359	10.251.93.10	10.251.93.33	SIP/SDF	1007 Status: 200 OK
11 5.703503	10.251.93.56	10.251.93.255	BROWSEF	229 Host Announcement USQLCAWS1, Workstation, Server, SQL Server, NT Workstation, NT Server
12 7.201722	10.250.93.57	10.251.93.10	SIP	1358 Request: INVITE s1p:5555522222221362@VXMLGw1A.omnicare.com;transport=udp
13 7.203454	10.251.93.10	10.250.93.57	SIP	493 Status: 100 Trying
14 7.203494	10.251.93.10	10.250.93.57	SIP/SDF	1100 Status: 200 OK
15 7.236543	10.250.93.57	10.251.93.10	SIP/SDF	804 Request: ACK 51p:5555522222221362@10.251.93.10:5060
16 7.264140	10.251.93.10	10.250.93.57	TCP	44 63536 > 1rdm1 [SYN] Seq=0 W1n=4128 Len=0 MS5=536
17 7.265260	10.250.93.57	10.251.93.10	TCP	44 1rdm1 > 63536 [SYN, ACK] Seq=0 Ack=1 W1n=8192 Len=0 MSS=1460
10 7 36 5307	10 351 01 10	10 250 92 57	TCP	40.63536 sindmi LACKI Son-1 Ack-1 Win-4128 Lon-0
18 /.20529/	10.251.93.10	10.250.55.57	Te.	
19 7.265345	10.251.93.10	10.250.93.57	TCP	576 [TCP segment of a reassembled PDU]
19 7.265345 19 7.265345 rame 1: 92 by	10.251.93.10 10.251.93.10 10.251.93.10	10.250.93.57 10.250.93.57 to 251 00 to	TCP	The segment of a reasembled PDU in the provide Constant of the provide Constan
rame 1: 92 by aw packet dat nernet Proto ransmission C	tes on wire (736 a col version 4, sr ontrol Protocol,	10.250.93.57 bits), 92 bytes cap c: 10.251.93.10 (10 Src Port: ssh (22),	tured (736 b), 0.251.93.10), Dst Port: 5	Total and the second of the
ame 1: 92 by w packet dat ternet Proto ansmission C + Protocol	10.251.93.10 10.251.93.10 to are on the control of	10.250.93.57 10.250.93.57 bits), 92 bytes cap c: 10.251.93.10 (10 Src Port: ssh (22),	tured (736 b .251.93.10), Dst Port: 5	0320 5 min (tak) set interio taki (tak) 576 [TCP segment of a reasembled PDU] minits) Dst: 10.251.62.208 (10.251.62.208) 8357 (58357), Seq: 1, Ack: 1, Len: 52
18 7.265345 19 7.265345 20 7.465345 20 7.46545 20 7.465745 20 7.465745 20 7.465745 20 7.465745 20 7.467757 20 7.4677577 20 7.4677577 20 7.46775777 20 7.46775777777777777777777777777777777777	10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.051.051.051.051.051.051.051.051.051.0	10.250.93.57 10.250.93.57 bits), 92 bytes cap rc: 10.251.93.10 (10 Src Port: ssh (22),	TCP tured (736 b).251.93.10), DST Port: 5	576 [TCP segment of a reasembled POU] " " " " " " " " " " " " " " " " " " "
45 <u>c0</u> 00 5	10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.93.10 10.251.951.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.251.00 10.2	10.250.93.57 bits), 92 bytes cap rc: 10.251.93.10 (10 Src Port: ssh (22),	TCP Tured (736 b .251.93.10) DST Port: 5	576 [TCP segment of a reasembled POU] m ints) Dost: 10.251.62.208 (10.251.62.208) i8357 (58357), Seq: 1, Ack: 1, Len: 52
45 c0 00 5 0 a 1 2 2 b 0 a 2 2 5 4 5 0 a 2 2 5 4 5 0 a 2 2 5 4 5 0 a 5 2 5 4 5 6 7 5 5 4 5 6 7	<pre>c 39 58 00 00 ff 0 016 e3 f5 a5 c 39 58 00 00 ff 0 00 16 e3 f5 a5 c 34 90 00 07 f 83 35 06 6e a 33 f0 e1 5e 74 1 3e 0c 6b 16 9c</pre>	10.250.93.57 10.250.93.57 10.251.93.10 bits), 92 bytes cap c: 10.251.93.10 (10 Src Port: ssh (22), 5 06 cf b3 0a fb 5d 5 d1 b6 82 9f 4b be 15 3d al 5f 93 fl 127 3c 64 5e 99 84 b9 9d 77 55 a8 cd	TCP tured (736 b .251.93.10) DST Port: 5 0a E\9x. dc> 9 PZI. 92 .a.7.5. 91& UK6q>.k	<pre>Source Segment of a reasembled PDU To To T</pre>

驗證

要驗證資料包捕獲是否有效,請使用此過程。

步驟1.過濾SIP信令。

在Filter文本框中輸入sip關鍵字。

/ port1.pe	cap [Wiresha	ark 1.10.3 (SVN Rev 5	3022 from /trunk-1.10)]		
Eile Edit	View Go	Capture Analyze	Statistics Telephony Tools	Internals Help	
• •	(m d	B B X 2	। ् ० ० २ ४ २	I 🗐 📴 I Q, Q, Q, 🖸 I 📓 🖉 🎭 🕌 🧱	
Filter: sip				Expression Clear Apply Save	
No. T	lime	Source	Destination	Protocol Length Info	
9 9	5.037823			SIP 508 Request: OPTIONS sip:10.251.93.10	
10 5	5.038359	10.251.93.10	10.251.93.33	SIP/SDF 1007 Status: 200 OK	
12 7	7.201722	10.250.93.57	10.251.93.10	SIP 1358 Request: INVITE sip:55555222222221362@VXMLGW1A.omnicare.com;transport=udp	
13 7	7.203454	10.251.93.10	10.250.93.57	SIP 493 Status: 100 Trying	
14 7	7.203494	10.251.93.10	10.250.93.57	SIP/SDF 1100 Status: 200 OK	
15 7	7.236543	10.250.93.57	10.251.93.10	SIP/SDF 804 Request: ACK sip:555552222222221362@10.251.93.10:5060	
436 1	10.045310	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	
437 1	10.045836	10.251.93.10	10.251.93.33	SIP/SDF 1007 Status: 200 OK	
711 1	11.870965	10.250.93.57	10.251.93.10	SIP 498 Request: BYE sip:55555222222221362@10.251.93.10:5060	
714 1	11.872078	10.251.93.10	10.250.93.57	SIP 561 Status: 200 OK	
732 1	15.053366	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	-
733 1	15.053737	10.251.93.10	10.251.93.33	SIP/SDF 1008 Status: 200 OK	
734 2	20.123097	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	
735 2	20.123454	10.251.93.10	10.251.93.33	SIP/SDF 1008 Status: 200 OK	
736 2	25.130902	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	
737 2	25.131482	10.251.93.10	10.251.93.33	SIP/SDF 1007 Status: 200 OK	
738 2	27.719707	10.251.93.57	10.251.93.10	SIP/SDF 1284 Request: INVITE sip:55555222222221363@VXMLGw1A.omnicare.com;transport=udp	
739 2	27.721307	10.251.93.10	10.251.93.57	SIP 481 Status: 100 Trying	
740 2	27.721345	10.251.93.10	10.251.93.57	SIP/SDF 1022 Status: 200 OK	
775 2	27.874125	10.251.93.57	10.251.93.10	SIP 488 Request: ACK sip:555552222222221363@10.251.93.10:5060	
1010 3	30.200873	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	-
1011 3	30.201266	10.251.93.10	10.251.93.33	SIP/SDF 1006 Status: 200 OK	
1513 3	35.208687	10.251.93.33	10.251.93.10	SIP 508 Request: OPTIONS sip:10.251.93.10	
1514 3	35.209051	10.251.93.10	10.251.93.33	SIP/SDF 1008 Status: 200 OK	
1690 3	26 079673	10 251 02 57	10 251 02 10	STD 400 Doguost, BVE cin.\$5555577777777777777777777777777777777	
1					,
Frame	9: 508 b	ytes on wire (4064 bits), 508 bytes	captured (4064 bits)	
Raw pa	acket data	a			
Interr	net Proto	col version 4,	Src: 10.251.93.33 (10	0.251.93.33), Dst: 10.251.93.10 (10.251.93.10)	
🕀 User D	Datagram I	Protocol, Src	Port: 58800 (58800), E	Dst Port: sip (5060)	
Sessio	on Initia	tion Protocol	(OPTIONS)		

0000 45 00 01 fc 77 29 00 00 7f 11 f2 a6 0a fb 5d 21	Ew)]!	
0010 0a fb 5d 0a e5 b0 13 c4 01 e8 d5 49 4f 50 54 49]IOPTI	
0020 4f 4e 53 20 73 69 70 3a 31 30 2e 32 35 31 2e 39	oN5 sip: 10.251.9	E
0030 33 2e 31 30 20 53 49 50 2f 32 2e 30 0d 0a 56 69	3.10 SIP /2.0Vi	
0040 61 3a 20 53 49 50 2f 32 2e 30 2f 55 44 50 20 31	a: SIP/2 .0/UDP 1	
0050 30 2e 32 35 31 2e 39 33 2e 33 33 3a 35 38 38 30	0.251.93 .33:5880	
0060 30 3b 62 72 61 6e 63 68 3d 7a 39 68 47 34 62 4b	0; branch =z9hG4bK	
0070 2d 64 38 37 35 34 7a 2d 63 62 37 38 64 61 31 39	-d8754z- cb78da19	
0080 35 63 36 31 62 39 30 66 2d 31 2d 2d 2d 64 38 37	5c61b90f -1d87	
0090 35 34 7a 2d 3b 72 70 6f 72 74 0d 0a 4d 61 78 2d	54z-;rpo rtMax-	
00a0 46 6f 72 77 61 72 64 73 3a 20 37 30 0d 0a 43 6f	Forwards : 70co	-
● In File: "C:\customer\brad\port1.pcap" 390 kB Packets: 1727 · Displayed: 28	1.6%) · Load time: 0:00 Profile: Default	

步驟2.使用Wireshark Player開啟RTP流。

- 導覽至Telephony Voip Calls 選擇相關呼叫
- 選擇播**放者**

port1.pcap [Wireshark 1.10.3 (S)	/N Rev 53022 from /trunk-1.10)]
<u>File Edit View Go</u> Capture	<u>Analyze Statistics Telephony Tools Internals H</u> elp
• • 🖌 🔳 🔬 🖻 🛅	೫ ₴ ९ ♦ ♦ ₽ 7 ₺ ■■ ९ ९ ९ ₪ ₩ ⊠ % % ₩
Filter: sip	Expression Clear Apply Save
No. Time Source	Destination Protocol Length Info
9 5.037823 10.251.	93.33 10.251.93.10 SIP 508 Request: OPTIONS sip:10.251.93.10
10 5.038359 10.251.	93.10 10.251.93.33 SIP/SDF 1007 Status: 200 OK
12 7.201722 10.250.	93.57 10.251.93.10 SIP 1358 Request: INVITE sip:55555222222221362@VXMLGw1A.omnicare.com;transport=udp
13 7.203454 10.251.	93.10 10.250.93.57 SIP 493 Status: 100 Trying
14 7.203494 10.251.	93.10 10.250.93.57 SIP/SDF 1100 Status: 200 OK
15 7.236543 10.250.	
436 10.045310 10.251.	a portupear - voir cans
437 10.045836 10.251.	
711 11.870965 10.250.	Detected 2 VoIP Calls. Selected 1 Call.
714 11.872078 10.251.	Start Time A Ston Time 4 Initial Snasker 4 From 4 To 4 Protocol 4 Packets 4 State 4 Comments 4
732 15.053366 10.251.	Subtrante Solo International Sector The New Main AA Vande LegissESES200000001 Could Freedom Counternation
733 15.053737 10.251.	7.201722 11.372078 10.230.35.37 03KAL Main AA - Vanda 1<a href="https://www.salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salance.com/salanc</td>
734 20.123097 10.251.	27.719707 36.979711 10.251.93.57 +18595471607 <sip+1859! 6="" <sip:5555522222222136:="" completed<="" sip="" td=""></sip+1859!>
735 20.123454 10.251.	
736 25.130902 10.251.	
737 25.131482 10.251.	
738 27.719707 10.251.	
739 27.721307 10.251.	
740 27.721345 10.251.	
775 27.874125 10.251.	
1010 30.200873 10.251.	
1011 30.201266 10.251.	
1513 35.208687 10.251.	
1514 35.209051 10.251.	K
1690 26 079672 10 251	Total: Calle 2. Start packets 0. Completed calls 2. Rejected calls 0.
- L.	
⊞ Frame 9: 508 bytes on i	Prepare Filter Flow Player Select All Close
🗄 Raw packet data	
Internet Protocol Vers	
🗷 User Datagram Protocol	, SrC Port: 58800 (58800), DST Port: s1p (5060)
Session Initiation Prof	LOCOI (OPTIONS)

步驟3.按一下「Decode」。

port1.pcap [Wireshark 1.10.3 (SVN Rev 53022 from /trunk-1.10)]	
Ele Edit View Go Capture Analyze Statistics Telephony Tools Internals Help	
O O O O O O O O O O O O O O O O O	
Filter () () () () () () () () () (
View as time or day	
No. Litter huffer [mo] 50 A II He RTP timestamp Decode Diay Daure Ston Clore	
1	MLGW1A.omnicare.com:transport=udp
19 19 10.23434 10.232.33.10 10.230.33.37 JI 433 Status. 100 Hymg	
14 7.203494 10.251.93.10 10.250.93.57 SIP/SDF 1100 Status: 200 OK	
15 7.236543 10.250.	
436 10.045310 10.251. Political voir cars	
437 10.045836 10.251.	
711 11. 870965 10. 250. Detected 2 VolP Calls. Selected 1 Call.	
714 11. 8/20/8 10. 251. Start Time A Stop Time Initial Speaker From To Protocol	Packets 4 State 4 Comments 4
732 15. 053366 10. 251. 7.201722 11.872078 10.250.93.57 "USRXL Main AA - Vanda <sip:5555522222222136; sip<="" th=""><th>6 COMPLETED</th></sip:5555522222222136;>	6 COMPLETED
7 35 15. 033/3/ 10. 211. 7 24 20 122007 10 251 27 710707 26 070711 10 251 02 57 10505471607 cim. 10501 cim.55555332323232323232323232323	6 COMPLETED
734 20.12309/ 10.211. 27.113/0/ 30.3/9/11 10.21.35.3/ +103934/100/ <5ip:+1039.4/100/ <sip:>10.21.</sip:>	6 COMPLETED
736 25 130902 10 251	
737 25 131482 10 251	
738 27,719707 10.251	
739 27.721307 10.251.	
740 27.721345 10.251.	
775 27.874125 10.251.	
1010 30.200873 10.251.	
1011 30.201266 10.251.	
1513 35.208687 10.251.	
1514 35.209051 10.251. 🕡	•
Total: Calls: 2 Start packets: 0 Completed calls: 2 Rejected calls: 0	
B Frame 9: 508 bytes on v Prepare Filter Flow Player B Raw packet data Prepare Filter Flow Player	All
Internet Protocol Vers	

步驟4.播放錄音。

為了播放錄製的對話,請為相關呼叫選擇已解碼的圖形並選擇**播放**。

o port1. <u>F</u> ile <u>E</u> di	pcap [V : <u>V</u> iew	Vireshark 1. <u>G</u> o <u>C</u> aj	.10.3 (SVN Re pture <u>A</u> naly:	v 53022 from /trunk ze <u>S</u> tatistics Tele	1.10)] phony <u>T</u> ools In	ternals <u>H</u> elp							
0 0	📕 port	1.pcap - Vo	oIP - RTP Play	er		and a star							
Filter:		· 		- <u>+</u> +						2@VXMLGW1A	.omnicare.com;trans	port=udp	
1	28 s		29 s	30 s	31 s	32 s	33 s	34 s	35 s				
1 43	Fre	om 10.251.9	93.177:20798 t	o 10.251.93.10:18902	Duration:9.08 Dr	op by Jitter Buff:0(0	.0%) Out of Seq:	0(0.0%) Wrong T	imestamp: 0(0.0%)				83
43 71 73 73 73 73 73 73 73 73 73	28 s	om 10.251.5	29 s 93.10:18902 to	30 s	31 s III Duration:9.20 Dr	32 s op by Jitter Buff:0(0	33 s .0%) Out of Seq:	34 s 0(0.0%) Wrong T	35 s ► Timestamp: 0(0.0%)	il 4 Packets	State Comn COMPLETED COMPLETED	nents	4
73 74 77 101 101	Jitter b	buffer [ms]	50 *	Use RTP timestam	Decode	v as time of day	P <u>a</u> use	<u>Stop</u>					
151								m	d				•
1690	26 07	9677 10	1 251	2011		т	otal: Calls: 2 Star	t packets: 0 Com	pleted calls: 2 Rejected	I calls: 0			
E Frame E Raw p E Inter	9: 5 acket net P	08 byte data rotocol	s on v	Pre	pare Filter	Flov	v	Player		Select <u>A</u> ll	Close		
• User • Sessi	Datag	ram Pro itiatio	tocol, Sr n Protoco	c Port: 58800 1 (OPTIONS)	(58800), Dst	Port: sip (060)						

所描述的步驟可用於排除音訊品質、單向音訊或死氣情況的問題。

可以在VXML網關上鍵入這些debug命令以進行進一步的診斷。

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