Decifratura del flusso RTP per l'analisi della perdita di pacchetti in Wireshark per chiamate voce e video

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Introduzione Problema

Introduzione

Questo documento descrive il processo di decifrazione del flusso RTP (Real-Time Streaming) per l'analisi della perdita di pacchetti in Wireshark per chiamate vocali e video. I filtri Wireshark possono essere usati per analizzare acquisizioni simultanee di pacchetti all'origine o vicino alla destinazione di una chiamata. Questa funzione è utile quando è necessario risolvere problemi di qualità audio e video quando si sospetta la presenza di perdite nella rete.

Problema

In questo esempio viene utilizzato il flusso di chiamata seguente:

IP Phone A (sito centrale A) > switch 2960 > Router > router WAN (sito centrale) > IPWAN > router WAN (sito B) > Router > 2960 > IP Phone B

In questo scenario, il problema riscontrato è che le videochiamate dal telefono IP A al telefono IP B determinano una cattiva qualità video dal sito centrale A al sito di succursale B, dove il sito centrale è di buona qualità ma il lato della succursale presenta dei problemi.

Vedere i pacchetti persi dal ricevitore nelle statistiche di streaming del telefono IP della filiale:

cisco	Streaming Statistics Cisco IP Phone CP-8941(SEP00077ddfbe65)						
Device Information	Remote Address	192.168.10.146/20568					
Network Setup	Local Address	192.168.207.231/20808					
Network Statistics	Start Time	00:00:00					
Ethernet Information	Stream Status	Not Ready					
Network	Host Name	SEP00077ddfbe65					
Device Logs	Sender Packets	4745					
Console Logs	Sender Octets	3144928					
Core Dumps	Sender Codec	H264					
Status Messages	Sender Reports Sent	16					
Debug Display	Sender Report Time Sent	11:19:34					
Streaming Statistics 🧃	Revr Lost Packets	199					
Stream 1	Avg Juner	40					
Stream 2	Revr Codec	H264					
	Revr Reports Sent	1					
	Revr Report Time Sent	11:18:14					
	Revr Packets	4675					
	Revr Octets	3113320					
	MOS LQK	0.0000					
	Avg MOS LQK	0.0000					
	Min MOS LQK	0.0000					
	Max MOS LQK	0.0000					
	MOS LQK Version	0.9500					
	Cumulative Conceal Ratio	0.0000					
	Interval Conceal Ratio	0.0000					
	Max Conreal Ratio	0.0000					
	Conceal Sees	0					
	Severely Conceal Sers	0					
	Latency	389					
	Max Jitter	50					
	Sender Size	0 ms					

Soluzione

de 2

La cattiva qualità è visibile solo sul lato della filiale e, poiché il sito centrale vede una buona immagine, sembra che il flusso dal sito centrale al sito della filiale stia perdendo pacchetti sulla rete.

IP addressing scheme Central IP phone: 192.168.10.146 Central Gateway: 192.168.10.253 Central WAN router: 192.168.10.254 Branch WAN router: 192.168.206.210 Branch Gateway: 192.168.206.253 Branch IP phone: 192.168.207.231

I pacchetti vengono acquisiti sul router WAN centrale e di branch e la WAN scarta questi pacchetti. Mettere a fuoco il flusso RTP dal telefono IP centrale (192.168.10.146) al telefono IP della filiale (192.168.207.231). Il flusso non riceve i pacchetti sul router WAN della succursale se la WAN scarta i pacchetti sul flusso dal router WAN centrale al router WAN della succursale. Usare le opzioni di filtro in wireshark per isolare il problema:

- 1. Aprire la cattura in wireshark.
- 2. Usare il filtro ip.src==192.168.10.146 && ip.dst==192.168.207.231. In questo modo vengono esclusi tutti i flussi UDP dal telefono IP centrale al telefono IP della filiale.
- 3. Eseguite l'analisi solo sull'acquisizione lato diramazione, ma dovete eseguire questi passi anche per l'acquisizione centrale.
- 4. In questa schermata, il flusso UDP viene filtrato tra gli indirizzi IP di origine e di destinazione e contiene due flussi UDP (differenziati dai numeri di porta UDP). Questa è una videochiamata, quindi ci sono due flussi: audio e video. In questo esempio, i due flussi sono:

Flusso 1: Porta di origine UDP: 20560, porta di destinazione : 20800

	Immini, G. G. C. P. (typestates, Unit (sp), Sour typestates, Unit (sp), Sour typestates, Source, Sou	a Z S S S II
System Description Description <thdescripance< th=""> <thdescription< th=""> <thd< th=""><th>Intermediation Date: Projection des Projection Detection Detection (0) (0) (0) Detection Detection (0) (0) (0) (0) (0) Detection Detection (0) (0) (0) (0) (0) (0) (0) (0) Detection Detection (0)</th><th>vagi. Ben Del Alemano porte 1944 destantino porte 1944 Del Alemano porte 1956 approvello porte 1963</th></thd<></thdescription<></thdescripance<>	Intermediation Date: Projection des Projection Detection Detection (0) (0) (0) Detection Detection (0) (0) (0) (0) (0) Detection Detection (0) (0) (0) (0) (0) (0) (0) (0) Detection Detection (0)	vagi. Ben Del Alemano porte 1944 destantino porte 1944 Del Alemano porte 1956 approvello porte 1963
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376 27 00 00 00 00 100 100 10 00 00 00 00 00 0	168.227.251 UNF	
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2312 35 154242300 142, 168, 13, 148 19, 14 2314 25 14414030 102 108 13 146	108.737.201 EF	214 Subscripting 2000 Test Control parts 2000
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1346 30. 361826000 190. 168. 10. 145 190. 1	168.337.230 209	1375 Serve pert: 2000 sestimation pert: 13008
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Flusso 2: Porta di origine UDP: 20561, porta di destinazione : 20801

- 5. Selezionare un pacchetto da uno dei flussi e fare clic con il pulsante destro del mouse sul pacchetto.
- 6. Selezionare Decodifica con nome... e digitare RTP.

7. Per decodificare il flusso come RTP, fare clic su Accept (Accetto) e Ok.

Branchpeaping (Wireshark 1.8.4 (SVN Rev 46230 from /trun	180
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2304 33 044242000 192 168 10 146	192 168 202 company parts 20560 Pastination ports 20800
2306 33 064238000 192 168 10 146	192 158 207 Gilmeahtt. horse port: 20550 Bestination port: 20800
2 108 11, 081212000 192, 168, 10, 146	192, 168, 207, 💽 Editor Add Packet Comment
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2121 11 2241 11000 192 168 10 146	192 198 202 Colorize Convension Party and Destination party 20000
2125 11 211209000 192 168 10 146	192 198 207 STP Parts pert, 2050 Destination pert, 2060
2128 11 244223000 192 168 10 146	192 100 2027 Schemen Brite parts 20580 Destination parts 2000
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2225 22 201220000 162 168 10 146	162 168 207 Follow SL Sneam
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7220 22 244144000 102 109 10 146	162 162 207
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7241 22 252561000 162 168 16 146	102 102 00 December 20508 Vertication per 12000
1241 23 258533000 103 108 10 140	102.100 207 With the port 20500 Vertication part 20500
1249 22 263936000 163 169 16 146	102.103.107. Show Facket in New Window put the part - 20506 description port - 20506
1240 22 200272000 102 102 10 140	102.102.207.221 Div PSP source source continue to port. 20008
1250 22 267221000 102 109 10 140	102.103.207.221 bir
1251 22 20232000 103 102 10 140	102.102.207 221 DDP 224 Source port, 20500 participation part, 20500
2254 22 201021000 102 100 10 140	102.103.107.221 DDF 105 Solice Dort 20506 Description pert, 20006
2355 22 202774000 102 100 10 146	102.102.207.231 BBP B0 Source port. 20508 Participation part. 20008
2355 23 200014000 102.100.101.140	102.103.207.231 BBP BO Source port: 20508 destination pert: 20808
2350 33. 300001000 102.100.10.140	102.103.207.211 DBP 1125 Source port: 20506 Destination port: 20503
2357 33.393001000 192.108.10.146	100 100 107 201 UDV LOVY SUICE DATE 2050 DESCRIPTION DATE 2000
2356 33 30303000 192.108.10.146	100 100 100 101 day 214 Source parts 20500 descrimente parts 20800
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m universet Protocol Version 4, Src: 192.168.10.146 (192.168.10.146), Bxt: 1 ∰ User Batagram Protocol, Src Port: 20560 (20560), Bxt Port: 20680 (20680) В Bata (1/2 hytex)

Vi resta un flusso decodificato come RTP e l'altro come UDP non decodificato.

t ip.mc192.168.10.146 Soft ip.det1922.188.207.231	 Depression O 	lear Apply Save	
Time Source	Destination	Protocol	Length Info
2293 32.983837000 192.168.10.146	192.168.207.231	RTP	214 PT=LTU-T 6.722, SSRC=0x33796751, Seq=29570, Time=2249459473
2295 32.992012000 192.168.10.146	192.168.207.231	RTP	214 PT=ITU T G.722, SSRC=0K53796751, Scq=29569, Timc=2249459313
2296 32.992526000 192.165.10.14e	192.168.207.231	RTP	62 PT-Reserved for RTCP conflict avoidance, SSRC-0xB1CA0002, Seg-1, Time-41/84
2299 33.004041000 192.168.10.146	192.168.207.211	RTP	214 PT=ETU=T 6.722, SSR=0x53796751, SPq=29571, Time=2249459633
2302 33.023634000 192.168.10.146	192.168.207.231	RIP	214 PT=ITU T G. 722, SSRC=0K33796751, Scq=29572, T1nc=2249459793
2304 33.044242000 192.165.10.146	192.168.207.231	RTP	214 PT-ITU-T G. 722, SSRC-0x53/36/51, Sag-295/3, Time-2249459953 Audio st
2406 34.066240000 192.168.10.146	192.168.207.241	RTP	214 PT=TT0=T 16 722, NMX=0253790751, SPG=29576, T1me=2219000114
2308 53.084212000 192.108.10.146	192,168,207,231	RIP	214 PT=ETU T G. 722, SSRC=0033/90/31, SCG=295/3, TTRC=22494002/3
2310 33.104236000 192.165.10.146	102.105.207.231	R TP	214 PT-TU-T 6.722, 558C-0833/36/31, 580-20576, THN-2249-60-53
2214 22 144140000 102 100 10 146	102 100 207 221	K IP	211 PT-THEFT IS 722, NON-OUTFORTH, SPECARCY, THEFT/THEORY
2314 33,144113000 132,108,10,146	192,108,207,231	R. IP	214 PT-TTUTT 0,722, 550-0035/30/31, 500-25703, THE-2242400/33
3718 31 18400000 102 18E 10 146	102 146 202 211	DTC	114 FT TILT C 122 COLD OUTSTICKING Com DOLLAR THE STATE
3230 23 204240000 102 100 10 146	102 108 207 221	1111	211 PT 1101 PT 222 AND 0012700751 AND 2010 PT 1002
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2125 31 211209000 102 165 10 146	102 1ek 202 211	UDE	108 Courte port - 2081 Castingting port - 20801
2328 23, 244223000 192, 168, 10, 146	192, 168, 207, 231	RIB	214 81-111-1 6 22 See -0x3266751 Sec.20583 (1me-2249661553
2320 33 264295000 192 168 10 146	192 168 207 231	D.LD.	214 PT-TTULT C 222 SPEC-0053296251 Score20552 Time=2249661213
2111 11 284258000 102 166 10 146	102 16K 207 211	PTC	214 STATULT C 222 SCREAMSTREET Concessions Time-22404N1221
2335 33, 304239000 192, 168, 10, 146	192, 168, 207, 231	RTP	214 BT-TTI-T 6, 722 SSR-0x53766751, SRd-29556, T1me-2249662033
2337 33 323855000 192 168 10 146	192 168 207 231	PTP	214 PT=TTU T C 722 SUBC=0x53296751 SP0=205567 Time=22494672193
2339 51, 544144000 192, 165, 10, 146	192,168,207,231	RTP	214 PT-ITU-T G /22, SSPC-0x53/96/51, Sec-29558, Time-224945/351
2340 33, 351615000 192, 168, 10, 146	192,168,207,231	RTP	68 FT-Dunamic STP-Type-97, SSSC-0x18968900, Sep-15514, Time-99510574
2411-3 1313051001102110(51101112	103108010/121	10.10	60 PT-EXPANDED TWO DV. SSR -0x1898800, sca-s5515, rfm0811074 Video
2342 31.358522000 192.165.10.146	192, 168, 207, 231	RTP	1106 PT-DynamicRTP-Type-97, SSRC-0x18968900, Sep-45516, Time-95510574
2348 31, 362826000 192, 168, 10, 146	192,168,207,211	RTP	1075 FT-DynamicRTP-Type-97, SSRC-0s18968900, Sen-45517, Time-93510574
2349 33, 366378000 192, 168, 10, 146	192,168,207,231	RTP	838 PT-DynamickTP Type 97, 5580-0018968900, 5eg-45518, 1180-93510574
2350 33.367331000 102.168.10.146	192,168,207,231	RTP	214 PT-ITU-T G. /22, SSRC=0x53/96/51, Sec=29589, Time=2249462513
2351 31.368236000 192.165.10.146	192,165,207,211	RTF	165 PT-Oynamic RTP-Type-97, SSRC-Ox189089CO, Seq-45519, Time-91510574, Mark
2354 33.381821000 192.168.10.146	192.168.207.231	R IP	68 PT=0ynam1ckTP=Type=97, 5500=0018968900, seg=45520, 11me=93522274
2355 33.382774000 102.168.10.146	192.168.207.231	RTP	60 PT-DynamicRTP-Type-97, SSRC=0x18988900, Seq=45521, Time=93522274
2356 31.388811000 192.165.10.146	192.165.207.211	RTP	1125 FT - OynamicRTP-Type-97, SSRC-0x15905900, Seq 45522, Time 93522274
2357 33.393001000 192.168.10.146	192.168.207.231	RIP	1079 PT-toynamicKIP-Type-97, SSML=0x189689c0, Seq=45523, Hime=93522274
2358 33.393893000 192.168.10.146	192.168.207.231	RTP	214 PT=ITU-T G.722, SSRC=0x53796751, Scq=29580, Time=2249462673
2359 31.397018000 192.165.10.146	192.165.207.231	RTP	796 PT-DynamicRTP-Type-97, SSRC-0x18905900, Seq-45524, Time-93522274
2360 33.397988000 192.168.10.146	192.168.207.231	RTP	165 PT-DynamicKTP-Type-97, SSRC=0x189689c0, Sen=45525, Time=93522274, Mark

....0 = Extension: False0000 = Contributing source identifiers count: 0 0..... - Marker: False

8. Selezionare un pacchetto dal flusso non decodificato e decodificarlo come RTP. In questo modo, vengono decodificati sia i flussi audio che video in RTP.

Nota: il flusso audio è in formato codec G.722 e il tipo di payload Dynamic-RTP-97 indica il flusso RTP video.

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2340 33, 351615000 192, 168, 10, 146	192.168.207.231	RTP.	68 PT-DynamicRTP Type 97, SERC-UX129888CO, Sc -1514, Tinc-95105/4
2441 84, 852561000 192, 168, 16, 146	197.108.207.241	8.19	CONTRACTOR PROVIDENT AND A CONTRACTOR AND A
2242 22 263626005 102 166 15 146	103 168 307 221	8.12	1000 Filester (Street) State Vietnesser, State Vietnesser, State Vietnesser, Interesser, 1000
2349 33, 366378003 192, 168, 10, 146	192, 168, 207, 231	RIP	ASS Filespread on the system of a second state of the second state
2351 33, 365238000 192, 165, 10, 146	192,188,207,231	RTP	165 PT-DynamitETP-Type-97, SSEC-0x180000000, Sap-45519, Time-00510574, Mark
2354 33, 381821000 192, 168, 10, 146	192,168,207,231	RTP	68 PT=Dw12ef (ETP_Tvpt_9/, SSDC=0x18958900, St0=45520, Tinc=955222/4
2355 33, 382774000 142, 168, 10, 146	192,168,207,231	RIP	60 e1-oynam1re1e-1ype-97, ssax-0x189x83c0, seq-05521, 11ne-93522274
2356 33, 385811000 192, 165, 10, 146	192.188.207.231	RTP	1125 PT-DynamicRTP-Type-97, SSRC-0x10000000, Sec-45522, Time-00522274
2357 53, 593001000 192, 168, 10, 146	192.168.207.231	RTP	1079 PT=DynamicRTP_Type_97, 55RC=0x188588000, 56Q=45525, Tinc=85522274
2359 33, 397038000 192, 168, 10, 146	192.168.207.231	RUN	296 F1-Bynamfick1F-Type-97, SNK-60(189689:0, Seq=05124, Time-93522274
2380 33, 397988000 192, 168, 10, 146	192.188,207,231	RTP	165 PT-DynamicRTP-Type-97, SSRC-0x18008900, Seq-45525, Time-00522274, Mark
23/4 53,438203000 192,168,10,146	192.168.207.231	RTP	11/1 PT=DynamiCRTP-Type-97. SSRC=0x183583000, Seq=45526, Time=05525244
2376 33.445906000 192.168.10.146	192.168.207.231	418	1024 PT-DynamichTP-Type-97, ANX:-ITL3983830, SPG-05127, TTDE-98322204
2377 33.445655000 192.105.10.146	192.100.207.231	RIP	700 PT-DynamickiP-Type-V7, 500-001000000, 500-0520, Time-0525014, Mark
2265 22 408102005 102 168 10 146	192,100,207,231	8.12	sco Friedynamicki Frighe SF, Soko-Antoison A, Star-Soco, Timbersscove, Mark 1121 antoisef anno 1996 Star (1996) Star-Soco, Timbersscove, Mark
2366 33,495695003,192,165,10,146	197, 166, 207, 231	RIP	245 PT Development of Thread 7 (SDR - 011801807) (Ser. 4551) (Thread 511184) work
2392 53,530293000 192,165,10,146	192, 158, 207, 241	RTP	415 PTeDwise (ETP-True-97, SEDC-Hal3080000, Senethad, Timz-9534424, Mark
2400 33, 573901000 192, 168, 10, 146	192,168,207,231	1111	438 Preparation - Type -97, successively as a start start and start in the start start and start sta
2403 33,598050000 192,168,10,146	192,166,207,231	RTP	1161 FT-DynamicRTP-Type-97, SSRC-0x10800900, Sep-15534, Time-93540154
2404 53,595955000 192,165,10,146	192.168.207.231	RTP	1/6 PT-DynamicRTP-Type-9/, SSRC-0x180680C0, Sec-45335, Time-05340454, Mark
2409 33.628252000 192.168.10.146	192.168.207.231	10 TP	1185 PT-DynamicHTP-Type-97, SSHC=0x183683800, Seq=45536, Tine=93543514, Mark
2414 33,658015000 192,168,10,146	192.166.207.231	RTP	1117 FT-DynamicKTF-Type-97, SSRC-0x10800900, Seq-15517, Time-80516574
2421 53.695279000 192.165.10.146	192.168.207.231	RTP	1159 PT-DynamicRTP-Type-97, SSRC=0x18058900, Seq=45539, Time=03549544
2422 33,699234000 192,168,10,146	192.168,207,231	10 TP	149 PT-Dynami CRTP-Type-97, SSRC=0x189589C0, Scq=45540, Tinc=95549544, Mark
2428 33,728895000 192,108,10,146	197.160.207.231	RIP	1217 FI-DynamicKIP-Type-97, SMX-0x18848900, Seq-15511, Time-93552004
2429 33.729776000 192.165.10.146	192.188.207.231	RTP	110 PT-Dynami CRTP-Type-97, 550C-0013050500, Sep-45542, Time-0551004, Mark
2436 53,765064009 192,168,10,146	192.168.207.231	a m	1248 PT=bynami CHTP Type 97, 550c=0018788700, 550=45545, Tinc=5555064
2442 33,788770000 182,108,10,146	102.100.207.201	8.1P	1210 FileDynamic Kiteriyyesen, aakteriataanaaka, aagentooto, iindeensaaaata 128 Statumii Kiteriyaa aakteriataanaaka, aagentooto, iindeensaaataa ku
2450 22, 820208005 102, 168, 10, 146	192, 168, 207, 221	0.00	1210 Filesteforer time 0.2 Esteriol286250, security, interessed, mark
2451 33, 831265000 192, 168, 10, 146	192,168,207,231	RIP	134 strongering stronger 2, same for 186630, see 15540, the 5550004, same
2457 33, 565920000 192, 165, 10, 146	192,188,207,231	RTP	1301 PT-DynamicETP-Type-97, SERC-0x18008000, Sap-45549, Time-03584754
2463 33,897351000 192,168,10,146	192.168.207.231	RTP	1037 PT=DynamicRTP_Type_97, 55RC=0x183689C0, 5c0=45551, Tinc=355567814
2464 33,898964000 192,168,10,146	192,168,207,231	BIP	449 FILEDWRANTICKIELENTR-97, SNK-9018968900, SEC-15552, Ifme-98567814, Mark
1			
Ensue 2310: 68 bytes on wire (511 bits)	, 68 byres captured (544	bits) on im	nterface 0
R Ethernet II, Src: Cisco ae:60:08 (e5:40	:4D:am:6D:06), Dat: Cist	a dfobec65 ()	(00:07:7d:df:be:65)
II Internet Protocol Version 4, Src: 192.1	68.10.146 (192.168.10.14)	b), DST: 192.	2.168.207.231 (192.168.207.231)
Hiser Baragram Protocol, Nrc Port: 20568	(20568), DAT PORT: 2080	R (20808)	
Real-Time Transport Protocol			
10 = Version: NFC 1889 Version	(2)		
A Standard Calco			
DOUD - Contribution course ident	ifions courts to		
contracting source reacting	and the second second second		

Il problema ora riguarda solo la qualità video. Attivare il flusso RTP video e utilizzare i numeri di porta UDP per questo flusso per filtrare altri flussi.

9. Visualizzare il numero di porta selezionando uno dei pacchetti per la visualizzazione delle informazioni sulla porta UDP nel riquadro inferiore dell'utility Wireshark. Nella schermata precedente, viene selezionato uno dei pacchetti dal flusso video e nel riquadro inferiore vengono visualizzate le informazioni sulla porta Src (20568) e sulla porta Dst (20808).

Suggerimento: Utilizzare questo filtro: (ip.src==192.168.10.146 && ip.dst==192.168.207.231) && (udp.port eq 20568 e udp.port eq 20808). In questa schermata verrà visualizzato solo il flusso RTP video.

Nota: Annotare il primo e l'ultimo numero di sequenza RTP per il flusso.

Ele bit Yew Go Capture Analyse Statistics Telephony Joob Internals Help 월월월월월 18 월월 21 일종 * * * * 7 초 18 18 19 일일일 8 19 5 % 18

• Equation. Clar Titter D

No.	Time	Source	Destination	Protocol	length Ma
	2340 33, 351615	000 192, 168, 10, 146	192.168,207,231	RTP	68 PT=DynamicRTP Type 97, 55RC=0x18968900, sec=45514, Tinc=93510574
	2341 33, 352561	000 192,168,10,146	192,168,207,231	RIP	60 FIL-DynamicKIF-Type-97, SMK-001896896.0, Seq. 1004-93510574
	2342 33.355522	000 192,165,10,146	192.188.207.231	RTP	1108 PT-DynamicRTP-Type-97, SSRC-0x18068900, Sec-45516, Time-03510574
	2348 33, 362826	000 192, 168, 10, 146	192.168,207,231	RTP	1075 PT=DyNamicRTP Type 97, 55RC=0x18968900, 5cq=45517, Tinc=93510574
	2349 33, 366378	000 192,168,10,146	192,168,207,231	RIP	858 FIL-DynamicKIF-Type-97, SNX-0x18968900, Seq-15518, Time-93510574
	2351 33, 365238	000 192,165,10,146	192.188,207,231	RTP	185 PT-DynamicRTP-Type-97, SSRC-0x18888800, Sec-45519, Time-83510574, Mark
	2354 53.581821	$000 \ 192, 168, 10, 146$	192.168.207.231	RTP	68 PT=DyN2#iCRTP Type 97, SSRC=0x18958900, Scq=45520, Tinc=95522274
	2355 33, 382774	1000 192, 168, 10, 146	192,168,207,231	RIP	60 FILEBYRANTICKIF-Type-97, SNX =0x188688:0, Seq=05521, Ifne=93522274
	2356 33, 385611	000 192,165,10,146	192.185,207,231	RTP	1125 PT-DynamicRTP-Type-97, SSRC-0x18008000, Sec-45522, Time-00522274
	2357 53.593001	000 192, 165, 10, 146	192.168.207.231	RTP	1079 PT=DynamicRTP-Type-97, 55RC=0x18958900, Seq=45525, Tinc=95522274
	2359 33, 397038	000-192,168,10,146	192,168,207,231	RUN	796 FileOynamfzKiF-Type-97, SNK-0X18968900, Seq=0524, Tine=93522274
	2380 33, 397985	000 192,165,10,146	192.188,207,231	RTP	165 PT-DynamicRTP-Type-97, SSRC-0x10000000, Seq-45525, Time-00522274, Mark
	2374 53.435205	000 192, 165, 10, 146	192.168.207.231	RTP	11/1 PT=DynamicRTP=Type=97, 55RC=0x18958900, Seq=45526, Time=955252244
	2376-33.445906	000-192.168.10.146	192.168.207.231	RUN	1074_F1=0ynamf2K1F=1ypF=97, SNK=0x189E8900, SEq=45527, 11nE=93525244
	2377 33,445655	000 192,165,10,146	192.155,207,231	RTP	703 PT-DynamicRTP-Type-97, SSRC-0x18958900, Sec-45528, Time-93525244, Mark
	23/9 53.454545	000 192,165,10,146	192.168.207.231	RTP	526 PT=DynamicRTP-Type-97, SSRC=0x180580CU, Seq=45529, Time=05528304, Mark
	2385 33,498103	000 192,168,10,146	192.168.207.231	RUN	1171 FT=0y0a#fcKTF=Type=97, SSKC=0x18968900, Seq=45530, Tine=93531364
	2356 33,495595	000 192,165.10.146	192.168,207,231	RTP	245 FT-DynamicRTF-Type-97, SSRC-0x18968900, Seq-45511, Time-90511364, Mark
	2392 53.530290	000 192,165,10,146	192.168.207.231	RTP	415 PT=DynamicRTP=Type=97. SSRC=0x180580CU, Seq=45552, Time=05554424, Mark
	2400 33, 573901	000 192, 168, 10, 146	192.168.207.231	N. LEWIS CO., LEWIS CO	438 FT=DynamfcHTF=Type=97, SSHC=0x18968900, Seq=45533, Tine=93537394, Mark
	2403 33,595050	000 192,165,10,146	192.166.207.231	RTP	1101 FT-DynamicRTF-Type-97, SSRC-0x10900900, Seq-15534, Time-93540454
	2404 53.595955	000 192,165,10,146	192.168.207.231	RTP	176 PT=DynamicRTP=Type=97, SSRC=0x180580C0, Seq=45555, Time=05540454, Mark
	2409 33.628252	000 192, 168, 10, 146	192.168.207.231	10 TP	1185 FT=DynamfcHTF=Type=97, SSHC=0x189689C0, Seq=45536, Tfne=93543514, Mark
	2414 33,658015	000 192,165,10,146	192.166.207.231	RTP	1137 PT-DynamicKTP-Type-97, SSRC-0x108009c0, Seq-15537, Time-93516574
	2421 53.695279	000 192,165,10,146	192.188.207.231	RTP	1159 PT=DynamicRTP=Type=97, SSRC=0x18058000, Seq=45519, Time=05549544
	2422 33.699234	$1000 \ 192, 168, 10, 146$	192.168.207.231	10 TP	149 PT=DynamfcRTP=Type=97, SSRC=0x18968900, Seq=45540, Tine=93549544, Mark
	2426 33,728895	000 192,168,10,146	197.166.207.231	RTP	1237 FT-DynamicKTF-Type-97, SSKC-Ox109x0900, Seq-15511, Time-93552604
	2429 33.729778	000 192,165,10,146	192.188.207.231	RTP	130 PT-DynamicRTP-Type-97, SSRC-0x18958900, Sep-45542, Time-95552604, Mark
	2436 33,768664	$1000 \ 192, 168, 10, 146$	192.168.207.231	10 TP	1248 PT=DynamicRTP Type 97, SSRC=0x1898839C0, Seq=45543, Tinc=93555664
	2442 33,798776	000 192,168,10,146	192.168.207.231	RIP	1275 FI-DynamicKIF-Type-97, SNK-OS1896850, Seq-15515, Ifme-93558534
	2443 33.799675	000 192,165,10,146	192.188.207.231	RTP	178 PT-DynamicRTP-Type-97, SSRC-0x18008000, Sep-45546, Time-05556634, Mark
	2450 33,830298	$000 \ 192, 168, 10, 146$	192.168,207,231	RTP .	1319 PT=DynamfCRTP Type 97, 55RC=0x189689C0, 5cq=45547, Tfnc=95561694
	2451 33,831265	000 192,168,10,146	192,168,207,231	RIP	134 et-synamickte-type-97, saws-0x189x89x0, seq-15518, time-93521694, sark
	2457 33,565929	000 192,165,10,146	192.188.207.231	RTP	1301 PT-DynamicRTP-Type-97, SSRC-0x18008000, Seq-45549, Time-03884754
	2463 33,897331	000 192, 168, 10, 146	192.168.207.231	RTP	1037 PT=DynamicRTP Type 97, 55RC=0x189689C0, 5cq=45551, Tinc=95567814
	2464 33,898964	000 192,168,10,146	192,168,207,231	RIP	449 FILEWISHISKIFLENDE-97, SAKS-031856890, SEC-15552, (Inc-93567814, Mark

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ig.cit. 122158/20720L1 and it-dp.port. 20538-865. a	dpipert 2000 y Operation. C	iter Koph Sea	1	
inter Sector	Evaluation 1	Protocol	Length Mar	
1026 113,739044000190,168,10,145	190, 168, 207, 200	<10	316 vi-ovranickiv-ive-97, sox-ostosusso, sep-60	415, 1fmg-200753654, early
5365 114. // bos/000100.148.53.516	190,168,027,275	STP	1011 FT-OynamicKTP-Type-W, READ-OX108000000, Req-10	Nos, Time-CONSCRPT
1014 111, 778782000107, 148, 10, 126	142,168,207,251	211	449 PTabytanir012 Type 47, 4500a0a13083000, Separa	417, Tiera100756924, Mark
1040 L11.000572000190.108.10.146	192.108.207.201	415	 1001 V1-Cyterritics (V-Type-SV, SSX, -0010600500, 545-00 set, etcmanual rests, type-stat, and set of the balance. 	H15. 1108-100759594
1048 111, 81774 2000102, 148, 10, 148	102, 168, 207, 251	217	1143 Protycanic CP Type 72, 550 and 200000, Separati	423, Tierral 30785244
1945 L11.01514L000L92.168.10.145	192,168,207,200	<1F	200 vi-cynamickiv-rype-97, sowi-0010600600, peg-00	421. (fme-100760644. Mark
5018 114.X//00/000140.148.50.576	190,168,007,271	877	30-5 ят-буланісятя-туре-м, вело-казаяваном, вер-ас	NGZ, Time-SCOVERDA
1030 111, 377071000102, 148, 10, 148	142, 168, 207, 231	ante	501 PTubyrumiroTP Type 07, 6500u0s13053200, Separation	423, Times100784014, Mark
23/5 111, 923/2/000192, 103, 23, 295 23/6 114, 9253 000193, 168, 53, 575	190, 100, 207, 200	110	 A CLEAR AND AND AND AND AND AND AND AND AND AND	HIN, TIME-IOW DWIN NIS, TIME-SOMEWOR, Mark
1088-111-047124000102-148-10-148	102,168,207,233	217	1100 PTubytantioTP Type 10, 0500a0s13555500, Sepult	478, Times030772134
1006 113,948022000192,168,10,145	192,168,207,201	K1F	353 vi-synamics: v-type-97, saxt-0x106a06c0, seq-50	427. (fmm-100772104. Mark
53W8 114.W/W080001W0.148.53.5%6	190,168,027,275	111	11-ж РТ-суланіскТР-туре-W, векс-кызмежного, жер-за	HJE, TIME-SOM//SOM
1000 111,00001000100,100,100,100	102.108.207.201	211	 204 Pracy autority Type 12, essential Association, sequence 1144 and essential constant 42, page 461 (Maldor), page 40 	424, Timesidny/Sink, Mark
1100 114,000 0 MODELA, 140,00,000	190, 168, 337, 275	110	AND REPORTED FOR THE SPECIAL AND CONTRACTOR STREET	Mat. Time-SOM ACM. Mark
1118-114-047170000102-168-10-146	142,168,207,251	are	1110 Platy and Old Type 10, Associated Matters, Super-	472, Times100781224
1145 114.045159000190.165.10.145	192,168,207,201	<1F	276 x1-symetrick1x-sype-97, saxs-0s106s06c0, seq-50	433. (fme-100781224. Mark
51/0 114.0/7/50000100.148.50.5%S	190,168,007,275	110	5004 РТ-буганісятя-тура-м., вело-озіхнежної, лад-ос	Man, Time-COMPANE
1122 114 1022030001192 103 10 105	192, 168, 207, 201	216	1177 A Lange and Source and Source and Manager S. 1177 A Lange and Source and Source and Manager S.	and charlengerstar
11/5 114.108/48/00100.108.00.000	190.168.007.201	117	Ark PT-SynamicATP-Type-W, BBA2-AS10080400, Rep-10	Har, Time-SQM Brand, Mark
1151 114-147571000102-168-10-146	142, 168, 207, 251	NTF .	1146 Phatysumino12 Type 42, Associated Medders, Super-	418, Tiere/20730114
1102 114.145470000192.105.10.145	192,168,207,201	<1F	290 villaymentickiv-type-97. Sokt-0s106a06c0. Seq-50	419. (fme-100790114. Mark
11.6 114.1//G1000100.108.50.505	190.168.007.241	111	100. PT-OynamicATP-Type-W, BEAC-ASIMBARO, Rep-10 200. PT-OynamicATP-Type-W, BEAC-ASIMBARO, Rep-10	843, T188-530/866/4
1106 114, 216412000150, 168, 10, 146	192, 168, 207, 201	C10	366 vi - ovnani ociv- rype 167, posta anti ociveriti, pospeta 366 vi - ovnani ociv- rype 497, posta -0x106(00600, pag-40)	442, rfma-100726404
1140 114.01806000000.148.00.000	190,168,007,241	STP	M& PT-CynamicATP-Type-W, BEAD-Watherson, Reg-sc	Hide, Time-COMPOSED, Mark
1141 114.040554000102.168.10.145	142,168,207,251	211	1118 PTw0ytambr012 Type 22, 5500w0s18568500, Separa	244, Times 307 994 94
1142 114.249630000192.168.10.146	192,168,207,201	<1F	272 vi-symetrickiv-sype-97. Sokt-0010680600, Seq-60	445. (1mm-200729424), Mark
1144 114.27 NOROCING.148.33.316	100.148.337.313	100	M. Malanani (M. Tana M. 1997 (Malandro), Report M. Malanani (M. Tana M. 1997 (Malandro), Report	HAR, TIME-SCOREFER
146 114,028534000192,168,10,145	190, 168, 207, 201	<10	964 vi-synamics (v-rype-97, spec-0x106006c0, pep-62	448. (fma-100605524
147 114. KI/KESODOLNU, 168.50.516	190,168,017,275	STP	6/3 PT-OynamichTP-Type-W, BENZ-USINEDBOD, Respire	Hee, Time-Schedlow, Nark
mm 2240: 60 bytes on wire (34 brts) benne tt. met citco account (state terms frantant) formular 1, 600 175. In paragram wrotest1, wit ent: 2356 il-fine transport Wrotest1 (0	. 60 hytes captured CH- editationales, perc clear autoritate gradient des clear (20060), per vorte 20000 (2) Hitters county 2	bita) en int distata (u 0, form 142) (20000)	enface 0 (nov. rod. dif (ber.co) 185 202,291 (102,108,291,251)	
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Sequence cumber (ip. co.), 2 inter	 COM Support 2010 Market Sup 	and Load Store	of M	Perfile Debalt

Il primo numero di sequenza RTP è 45514 e l'ultimo è 50449 per il flusso RTP video filtrato.

- 10. Accertarsi che il primo e l'ultimo pacchetto del numero di sequenza RTP siano presenti in entrambe le clip (ad esempio, acquisizioni centrali e di rami) e notare che la SSRC per il flusso sarebbe la stessa su entrambe le clip.
- 11. Perfezionare il filtro in modo che corrisponda solo ai pacchetti tra il primo e l'ultimo flusso

RTP.

I numeri di sequenza vengono utilizzati per perfezionare il flusso nel caso in cui le clip non siano state acquisite contemporaneamente, ma con un lieve ritardo tra di esse.

Nota: È possibile che il sito di succursale inizi alcuni numeri di sequenza dopo 45514.

12. Selezionare un numero di sequenza iniziale e finale. Questi pacchetti sono presenti sia nella clip che nel filtro per visualizzare solo i pacchetti tra il numero di sequenza RTP iniziale e finale. Filtro:

```
(ip.src==192.168.10.146 && ip.dst==192.168.207.231) && (udp.port eq 20568 and udp.port eq 20808) && ( rtp.seq>=44514 && rtp.seq<=50449 )
```

Quando si acquisiscono due clip contemporaneamente, non si perde alcun pacchetto all'inizio o alla fine di entrambe le acquisizioni. Se una delle acquisizioni non include alcuni pacchetti all'inizio o alla fine, usare il primo numero di sequenza o l'ultimo numero di sequenza nella cattura non effettuata in entrambi i pacchetti per rifinire il filtro per entrambe le acquisizioni. Osservare i pacchetti acquisiti in entrambi i punti tra gli stessi numeri di sequenza (intervallo di numeri di sequenza RTP).

Quando si applica il filtro, questo viene visualizzato nel sito centrale e nel sito di succursale:

Sito centrale:

14572 37	.720005	192.168.	10.146	1	92.168.2	07.231	RTP	248	PT=Oynam10	RTP-Type-97	<pre>_ SSRC=0x189</pre>	68900.	Seg=45531.	T1ne=93531364	, Mark
14591 37	.749752	192.155.	10.145	1	92.168.2	07.231	RTP	413	PT-Oynamic	RTP-Type-97	SSRC=0x189	88900,	Seg-45532,	Tire-9353442/	, Mark
14609-37	.799790	192,155.	10.146	1	92.168.2	07.231	RTP	4.38	PT-Dynamic	RTP-Туре-97	SSRC-0x189	masco,	Seq-45533,	Time-93537394	i, Mark
14619 37	.819902	192.168.	10.146	1	92.168.2	07.231	RTP	1161	PT-Dynamic	RTP-Туре-97.	SSRC=0x189	68900,	5eq=45534,	T1ne-93540454	
14620 37	.819927	192.168.	10.146	1	92.168.2	07.231	RTP	176	PT=0ynanfic	жте турс 97.	_ SSRC=0x189	68900.	5cg=45535,	11nc=93540454	, Mark
14634 37	. 849993	192.168.	10.146	1	92,168,2	07.231	RTP	1185	PT=Oynamic	RTP-Type-97	SSRC=0x189	e89C0,	Seq=45536.	Tine=93543514	, Mark
14646 37	. 650019	192.185.	10.148	1	92.168.2	07-231	RTP	1137	PT-Dynamic	RTP-Type-97	SSRC-0x189	03960,	Seq-45537,	Tine-93546577	
14647 37	.850061	192.168.	10.146	1	92.168.2	07.231	RTP	133	PT-Dynamic	RTP-Туре-97.	SSRC-0x189	08900,	Seq-45538,	Time-93546574	i, Mark
14666 37	.919887	192.168.	10.146	1	92.168.2	07.231	RTP	1189	PT=Oynan10	ктр-туре-97.	SSRC=0x189	689c0,	5eg=45539,	T1ne=93549544	
14667 37	. 919930	192.168.	10.146	1	92.168.2	07.231	RTP	149	PI-pynant (к не туре-97	5580-0x189	68900.	500=45540.	11nc=93549544	, Mark
14679 37	. 950212	192.155.	10.145	1	92.168.2	07.231	RTP	1237	PT-Oynamic	RTP-Type-97	SSRC=0x189	ea9c0,	Seg-45541,	Tine-9355260/	
14680-17	. 950240	192.185.	10.148	1	92.168.2	07.231	RTP	1.10	PT Dynamic	RTP-Type-97	SSRC-0x189	masco,	Seq-45542,	Time 93557607	1, Mark
14699 37	. 969939	192.168.	10.146	1	92.168.2	07.231	RTP	1248	PT-Dynamic	RTP-Туре-97.	SSRC=0x189	68900,	Seq=45543,	Time-93555664	
14700 37	. 989966	192.168.	10.146	1	92.168.2	07.231	RTP	135	PT=Oynan10	ктр-турс-97	SSRC=0x189	e89c0.	50g=45544.	T1nc=03555664	, Mark
14711 38	. 020065	192.168.	10.146	1	92.168.2	07.231	RTP	1275	PT-Oynamic	RTP-Type-97	SSRC=0x189	68900.	Seg=45545,	Tine=93558634	1
14712 38	. 020092	192.185.	10.145	1	92.168.2	07-231	RTP	176	PT-Oynamic	RTP-Type-97	SSRC=0x189	88900,	Seq-45548,	Tine-9355863/	, Mark
14724-38	. 050392	192.155.	10.146	1	92,168.2	07.231	RTP	1.019	PT-Dynamic	RTP-Type-97	SSRC-0x189	maycu,	Seg-45547.	Time-93561697	
14725 38	.050419	192.168.	10.146	1	92.168.2	07.231	RTP	134	PT-Dynamic	ктр-туре-97	SSRC=0x189	68900.	5eg=45548.	T1ne=93561694	, Mark
14744 38	. 089989	192.168.	10.146	1	92.168.2	07.231	RTP	1301	int-ovnant (KIP IVDC 97.	5580=0x189	68900.	500=45549.	11nc=03564754	
4															
E Frame 144 E Ethernet	B Frame 1443: 86 bytes on wire (544 bits), 86 bytes captured (544 bits) # Ethernet II, Src: cisco_67:13:f0 (30:e4:db:67:13:f0), Dst: cisco_f4:d0:06 (b8:62:1f:f4:d0:06) # internet Protocol version 4, src: 102:168.10.146 (102:168.10.146), Dst: 102:168.207.231 (102:168.207.231)														
H User Data	gram Prot	ocol, Src	Port: 20	568 (2056	8), Dst	Port: 2080	B (20808)								
Real-Time	Transport	t Protocol													
0000 b8 62	1f f4 d0	08 30 44	db 67 1	3 10 08 00	0.45.88	h0	0E								
0010 00 36	54 d3 00	00 3f 11	9a 91 cl	0 a5 0a 97	2 c0 a8	. 6 ? .									
0020 cf c7	50 58 51	48 00 22	9b c4 8	0 61 bi ca	a 05 92	1900H. "	a								
0030 db ae	18 96 89	CO 27 42	80 14 9	5 a0 58 29	5 60 10										
0040 le 24	40 40				-	1940									
🖨 💅 File "CAL	Upert/showink	a)Decktor/Tec	hZone P	ackete 943581	Direct wet 45	35 Ma ked: 0 I	protect 1 Load time:	0.03159						Pro	file Default

Sito di succursale:

Z\$35 \$4, \$82774000 192, 108, 10, 140	197.108.207.281	N I P	DU PIEUMDADD CRIPE DADE HV. NAR EURIAMANA U. NEGERADZI. IDDEEMSDZZZZA
ZINE ST SERETION THE TER TH TAE	107 158 207 201	DTD	1125 CT Danael DTD Town 07 CCC/20130030070 Con-45523 Time-02533234
2250 23, 300012000 102, 100, 10, 100	100 100 007 001		1220 Programmer Programmer State Part Programmer (1220 Programmer State Pr
2537 55.555001000 152.105.10.140	192,108,207,251	NUL-	10/5 PT=0yhamickTPTType=57, 550C=0418588500, 550=45325, TTHE055322274
2359 33.397036000 192.165.10.146	192.188.207.231	RTP	798 PT-DynamicRTP-Type-97, SSRC-0x189089C0, Seq-45524, Time-93522274
2360 33.397988000 192.168.10.146	192.168.207.231	RTP	165 PT=bymanfckTP=Type_97, SSRC=0x189s89c0, Seq=45525, T1me=93522274, Mark
2374 33.435203000 192.185.10.146	192,188,207,231	RTP	1171 PT-DynamicRTP-Type-97, S58C-0x189089C0, Seq-45528, Time-93525244
2376 33,445906000 192,168,10,146	192,168,207,231	RTP	1074 PT=DVDanicRTP_TVDC_07, SSRC=0x180s80c0, Scc=45527, T1mc=03525244
2377 31,445655000 192,165,10,146	197,188,207,211	PTP	701 ST. Dynamic STP-Type-97, SS2C. 0x18938900, Sep. 45528, Time-93525244, Mark
2270 22 454248000 102 168 10 146	102 168 207 221	110	520 nt-management time 07 sent-0:100s00:0 son-45520 time-02529204 mark
25/5 55.454545000 152.105.10.140		ATP.	121 PT Comparison Transformer State Stat
2385 33.098103000 192.108.10.100	192.108.207.231	RTP	11/1 PT-Bytamick IP-Type-97, SSG -001896860, Seg-15530, The-95501300
2386 33.498898000 192.168.10.146	192.168.207.251	RTP	248 PT=DynamicRTP-Type=97, SSRC=0x189589C0, Seq=45531, Time=95531354, Mark
2392 33.530299000 192.168.10.146	192.158.207.231	RTP	413 PT-DynamicRTP-Type-97, S5RC-0x189889C0, Seq=45532, Time-93534424, Mark
2400 33.573901000 192.168.10.146	192.168.207.231	RTP	438 PT=DynamicRTP-Type=97, 55RC=0x189589C0, seq=45533, Time=93537304, Mark
2403 33, 598050000 192, 168, 10, 146	192.168.207.231	RTP	1161 PT-DynamicRTP-Type-97, S58C=0x189889C0, Seg=45534, Time=93540454
2404 33, 598955000 192, 168, 10, 146	192, 158, 207, 231	RTP	176 PT=DynawicPTP_Type_07, 558c=0x180580c0, 5ep=45535, Time=03540454, Mark
2409 22, 628252000, 192, 168, 10, 146	192,168,207,221	RTR	1165 01-10-00010-10-10-07 5001-001800900 500-45526 1100-02542514 Mark
	A DETADOTEDTIESE		The second
2414 53.050015000 192.105.10.140	192.100.207.201	RTP	1137 PT-DynamickTP-Type-97, Sakt-UliAbdaeCo, Seq-9537, Time-93540574
2421 33,698279000 192,168,10,146	192.168.207.231	RUP	1189 PT=DymanfickTP=Type=97, SSRL=0x189889c0, Seq=45539, T1ne=93549544
2422 33.699234000 192.165.10.146	192.158.207.231	RTP	149 PT-DynamicRTP-Type-97, SSRC-0x189089C0, Seq-45540, Time-93549544, Mark
2428 33.728895000 192.168.10.146	192.168.207.231	RUL	1237 PT=0yman1ckTP=Type=97, SSRC=0x189s89c0, Seq=45541, T1me=93552604
2429 33,729778000 192,185,10,148	192,188,207,231	RTP	130 PT-DynamicRTP-Type-97, SSRC-0x189089C0, Sec-45542, Time-93552804, Mark
2436 33,768664000 192,168,10,146	192.168.207.231	RTP	1248 PT-Dynamicstr Type 97, SSR-0x180s89c0, Seq-45543, Time-93555664
2442 31 795778000 192 185 10 146	107 188 207 211	PTP	1275 07 Demonic PT0-Tuna-07 CC0C 0-18038000 Car 45545 Time 01558614
2442 22 200520000 402 400 40 445	102 102 207 224		127 PT Grant Revenues 02 and 04 00 00 pt 1510 and 001000 and
2443 55.799678000 192.165.10.146	192.168.207.251	RIP	1/6 PT=DynamickTP-Type=57, SSRC=018958950, SEq=5346, Time=95338654, Mark
2450 33.830298000 192.165.10.146	192.168.207.231	RTP	1119 PT-DynamicRTP-Type-97, SSRC-0x189889C0, Seq=15147, Time-94361891
2451 33.831265000 192.168.10.146	192.168.207.231	RTP	134 PT=DynamicRTP-Type-97, SSRC=0x189889C0, Seq=45548, Time=93561694, Mark
2457 33.865929000 192.165.10.146	192.168.207.231	RTP	1301 PT=DynamicRTP-Type=97, S58C=0x189889C0, Seq=45549, Time=93564754
2463 33.897351000 192.168.10.146	192.168.207.231	RTP	1037 PT=DynamicRTP=Type=97, 55RC=0x189589C0, 5eg=45551, Time=93567814
2464 33,898964000 192,168,10,146	192,168,207,231	RTP	649 PT-DynamicRTP-Type-97, S581-0x18988900, Sec-45552, Time-93567814, Mark
2470 33 022682000 102 168 10 146	102 168 207 231	DTD	1055 0T=0x100i(0T0_100_02) 550(-0)18058000 500-45553 Time=03520284
2471 23 020520200 102 100 10 140	102 105 207 221	0.11	AT OT A SHORE THE ATT A COLORADOR AND A THE ATT AT A COLORADOR AND A THE AT A COLORADOR AND ATT AT A COLORADOR AND A THE AT AT A COLORADOR AND A THE A
24/1 55, 929328/00 192, 108, 10, 140	192,108,207,251	RUP	477 PT=DynamickTP=Type=57, SSRC=04189689.0, SEq=43334, Time=55370784, Park
2478 33.987559000 192.165.10.146	192.158.207.251	RTP	1051 PT-DynamicRTP-Type-W7, SSRC=0x180089C0, Seq=45555, Time=955/3844
2479 33,968921000 192,168,10,146	192,168,207,231	RUP	392 PT=DymanfickTP=Type=97, SSRL=0x189889c0, Seq=45556, T1me=93573844, Mark
<			H
E Frame 2340: 68 butes on size (544 bits)	65 both conturned (544 b	dini an in	starfara 0
E Flate 2300. OB Gytes of Mile (344 Bits)	(us syles captures () as a	ALL DATES /	1.0 (2).0 V
# Ethernet II, Src: Cisco_ae:60:06 (e8:40	0:40:20:00:06), DST: C15C0	dT:be:65 ((00:07:70:0F:be:65)
E Internet Protocol Version 4, Src: 192.1	168.10.146 (192.168.10.146)	, OST: 192	2.168.207.231 (192.168.207.231)
E User Datagram Protocol, Src Port: 20568	8 (20568), Dst Port: 20808	(20808)	
E Real-Time Transport Protocol			
10 = Version: RFC 1889 Version	1.020		
A Salar interst			
2000 second and reasons down			
0000 = contributing source ident	iffiers count: 0		
0 Harker: False			
Payload type: DynamickTP Type 97 (97)			
Sequence number: 45514			
T1mestamp: 93510574			
Synchronization Source identifier: 0:	(189b89c0 (412846528)		
- 1 0010000100 000000 0000 010100			
0000 00 07 7d df be 65 e8 40 40 ae 60 0	6 08 00 45 88)e.0 8	E.	
0010 00 36 84 d3 00 00 3b 11 9c 91 c0 a	8 0a 92 c0 a8 .6		
0020 cf c7 50 58 51 48 00 22 9b c4 80 6	1 b1 ca 05 92PXOH." .		
0030 db ac 18 9b 89 c0 27 42 80 14 95 a	0 58 25 b0 10's .	XX	
0040 1e 24 4d 40	SMO		
🔿 😻 [File: 1751] have been also that the back to be Tank Tank . [Backs	an THE PARTY AND A STREET	and Theorem	an BAULER Balanch
 Tel Line (Chrone) and Analyticated (Chrone) in the State 	the source enclosed as an an answer o the	stept 1 Long Str	Profile Details

Notare il numero di pacchetti filtrati nel riquadro inferiore dell'utilità Wireshark in entrambe le clip. Il conteggio **Visualizzato** indica il numero di pacchetti che soddisfano i criteri di filtro desiderati.

Il sito centrale ha 4.936 pacchetti che soddisfano i criteri del filtro desiderati tra i numeri di sequenza RTP iniziale (45514) e finale (50449), mentre il sito della filiale ha solo 4.737 pacchetti. Ciò indica una perdita di 199 pacchetti. Notare che questi 199 pacchetti corrispondono al conteggio "Rcvr Lost Pkts" di 199, che è stato visualizzato nelle statistiche di streaming del telefono IP lato filiale mostrato all'inizio di questo documento.

Ciò conferma che tutti i pacchetti perduti RCV erano in realtà perdite di rete a livello di WAN. In questo modo, viene isolato il punto di perdita dei pacchetti nella rete, mentre i problemi di qualità audio/video vengono gestiti usando cadute sospette nella rete.