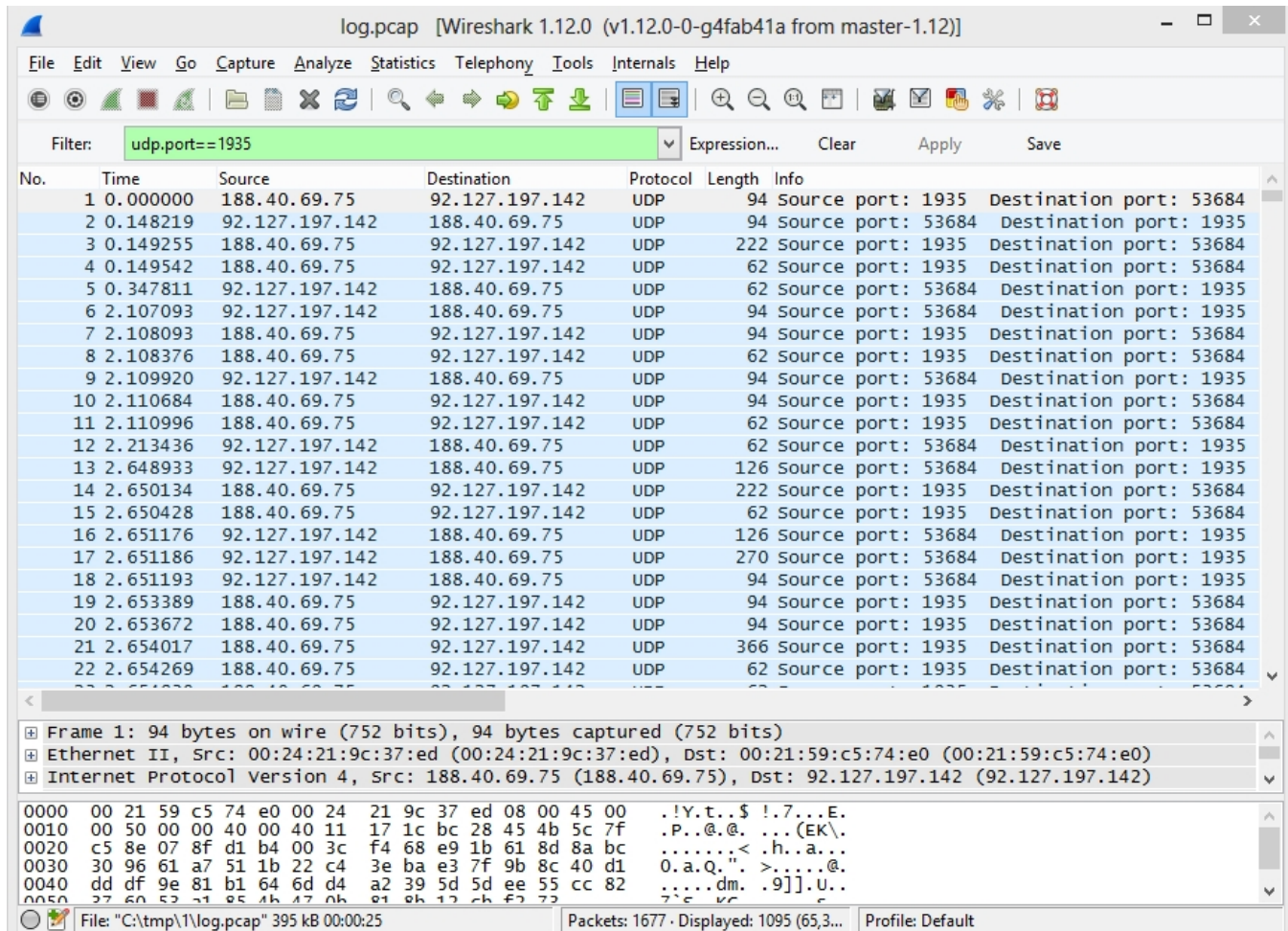


RTMFP

RTMFP traffic analysis

The RTMFP protocol is only used to transfer audio and video data if the WebRTC technology is unavailable. All signal data and messages are sent via the Websocket protocol.

Here, we filter the dump by the UDP protocol, 1935. This is a standard RTMFP port. As seen from the dump, packets flow in both directions, from the web client to the server and back. RTMFP uses AES encryption on the protocol level, so decoding and decomposing the protocol in Wireshark is not possible.



log.pcap [Wireshark 1.12.0 (v1.12.0-0-g4fab41a from master-1.12)]

File Edit View Go Capture Analyze Statistics Telephony Tools Internals Help

Filter: `udp.port==1935` Expression... Clear Apply Save

No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	188.40.69.75	92.127.197.142	UDP	94	Source port: 1935 Destination port: 53684
2	0.148219	92.127.197.142	188.40.69.75	UDP	94	Source port: 53684 Destination port: 1935
3	0.149255	188.40.69.75	92.127.197.142	UDP	222	Source port: 1935 Destination port: 53684
4	0.149542	188.40.69.75	92.127.197.142	UDP	62	Source port: 1935 Destination port: 53684
5	0.347811	92.127.197.142	188.40.69.75	UDP	62	Source port: 53684 Destination port: 1935
6	2.107093	92.127.197.142	188.40.69.75	UDP	94	Source port: 53684 Destination port: 1935
7	2.108093	188.40.69.75	92.127.197.142	UDP	94	Source port: 1935 Destination port: 53684
8	2.108376	188.40.69.75	92.127.197.142	UDP	62	Source port: 1935 Destination port: 53684
9	2.109920	92.127.197.142	188.40.69.75	UDP	94	Source port: 53684 Destination port: 1935
10	2.110684	188.40.69.75	92.127.197.142	UDP	94	Source port: 1935 Destination port: 53684
11	2.110996	188.40.69.75	92.127.197.142	UDP	62	Source port: 1935 Destination port: 53684
12	2.213436	92.127.197.142	188.40.69.75	UDP	62	Source port: 53684 Destination port: 1935
13	2.648933	92.127.197.142	188.40.69.75	UDP	126	Source port: 53684 Destination port: 1935
14	2.650134	188.40.69.75	92.127.197.142	UDP	222	Source port: 1935 Destination port: 53684
15	2.650428	188.40.69.75	92.127.197.142	UDP	62	Source port: 1935 Destination port: 53684
16	2.651176	92.127.197.142	188.40.69.75	UDP	126	Source port: 53684 Destination port: 1935
17	2.651186	92.127.197.142	188.40.69.75	UDP	270	Source port: 53684 Destination port: 1935
18	2.651193	92.127.197.142	188.40.69.75	UDP	94	Source port: 53684 Destination port: 1935
19	2.653389	188.40.69.75	92.127.197.142	UDP	94	Source port: 1935 Destination port: 53684
20	2.653672	188.40.69.75	92.127.197.142	UDP	94	Source port: 1935 Destination port: 53684
21	2.654017	188.40.69.75	92.127.197.142	UDP	366	Source port: 1935 Destination port: 53684
22	2.654269	188.40.69.75	92.127.197.142	UDP	62	Source port: 1935 Destination port: 53684

Frame 1: 94 bytes on wire (752 bits), 94 bytes captured (752 bits)

Ethernet II, Src: 00:24:21:9c:37:ed (00:24:21:9c:37:ed), Dst: 00:21:59:c5:74:e0 (00:21:59:c5:74:e0)

Internet Protocol Version 4, Src: 188.40.69.75 (188.40.69.75), Dst: 92.127.197.142 (92.127.197.142)

0000 00 21 59 c5 74 e0 00 24 21 9c 37 ed 08 00 45 00 .!Y.t..\$.!7...E.
0010 00 50 00 00 40 00 40 11 17 1c bc 28 45 4b 5c 7f .P..@.@....(EK).
0020 c5 8e 07 8f d1 b4 00 3c f4 68 e9 1b 61 8d 8a bc<.h..a...
0030 30 96 61 a7 51 1b 22 c4 3e ba e3 7f 9b 8c 40 d1 0.a.Q.".>.....@.
0040 dd df 9e 81 b1 64 6d d4 a2 39 5d 5d ee 55 cc 82dm..9]].U..
0050 27 60 52 21 85 4b 47 0b 81 8b 12 cb f2 72 7.c.kc

File: "C:\tmp\1\log.pcap" 395 kB 00:00:25 Packets: 1677 · Displayed: 1095 (65,3... Profile: Default

Possible problems

In most cases problems are related to RTMFP traffic not flowing between the web client and the WCS server. If RTMFP traffic does not pass through, the web client can establish connection and register at SIP, because signaling works via Websocket. During calls Flash Player will produce errors, or there will be simply no audio.

Troubleshooting

Make sure the UDP port 1935 is open and available. If the WCS server is behind NAT, make sure UDP packets send to the external IP address does reach that port of the WCS server.