

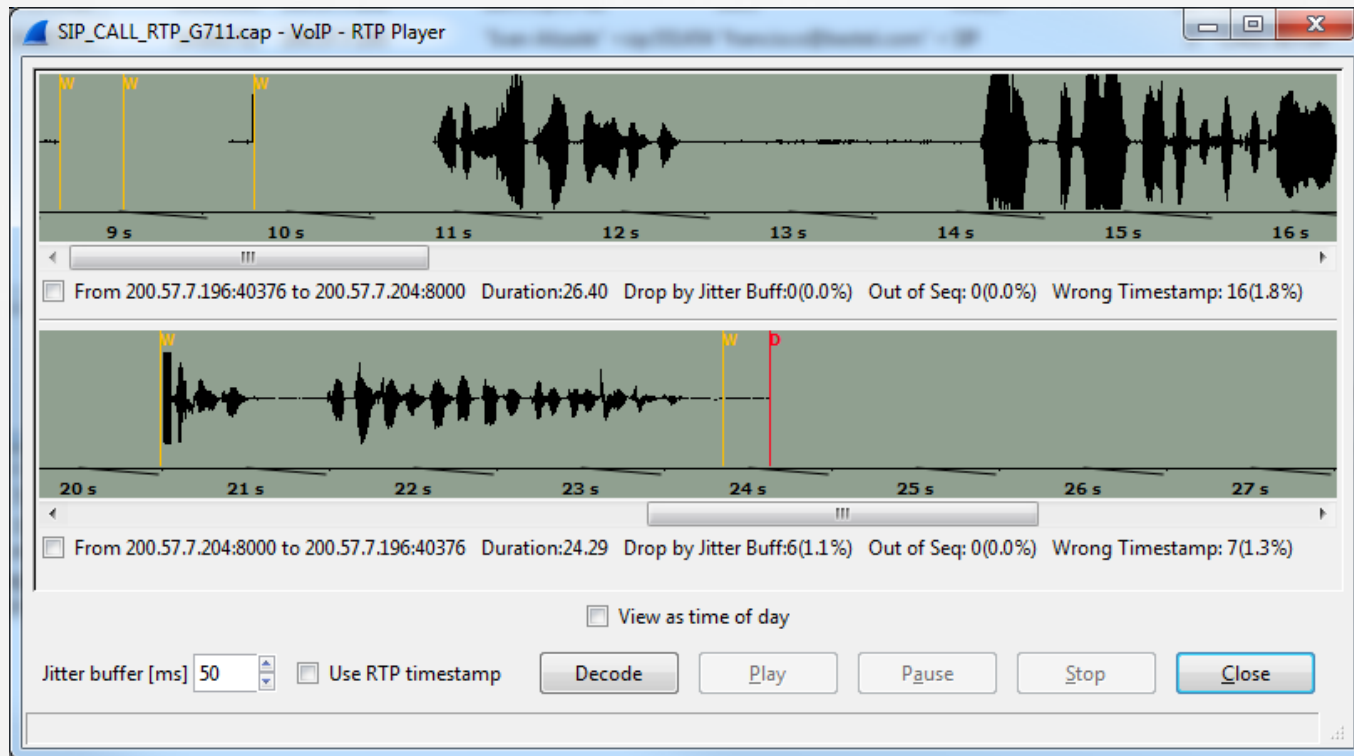


Analyzing Poor Voice Quality

Analyzing Poor Voice Quality

- » **What constitutes poor quality?**
- » **How can Wireshark help?**
 - Analyze the flow of calls
- » **Wireshark tools**
 - View quality in the player
 - Analyze response time in the packets list or Flow Graph
 - Use the Expert

Analyzing Poor Voice Quality



Analyzing Poor Voice Quality

- » **Wireshark can help locate problems in a VOIP network**
- » **Using Flow Graph**
 - Do we have packets that are being retransmitted?
- » **RTP stream analysis**
 - View out-of-order packets
 - View cancelled packets

Analyzing Poor Voice Quality

Wireshark: RTP Stream Analysis

Forward Direction | Reversed Direction

Analysing stream from 200.57.7.204 port 8000 to 200.57.7.196 port 40376 SSRC = 0xD2BD4E3E

Packet	Sequence	Delta(ms)	Filtered Jitter(ms)	Skew(ms)	IP BW(kbps)	Marker	Status
3831	533	0.17	7.41	317.66	81.60		[Ok]
3472	433	35.92	7.04	273.13	14.40		[Ok]
3836	534	19.83	6.95	317.83	81.60		[Ok]
3441	425	1008.29	6.92	270.27	1.60		[Ok]
3396	424	0.17	6.83	278.55	81.60		[Ok]
3807	527	0.17	6.81	317.72	83.20		[Ok]
3840	535	23.44	6.73	314.39	81.60		[Ok]
3444	426	16.83	6.69	273.44	3.20		[Ok]

Max delta = 5843.74 ms at packet no. 2195
Max jitter = 7.41 ms. Mean jitter = 2.60 ms.
Max skew = 319.29 ms.
Total RTP packets = 548 (expected 548) Lost RTP packets = 0 (0.00%) Sequence errors = 0
Duration 24.12 s (153 ms clock drift, corresponding to 8051 Hz (+0.64%))

Save payload... Save as CSV... Refresh Jump to Graph Player Next non-Ok Close

Questions?