

Εργασία Δίκτυα Υπολογιστών II – Wireshark Screenshots



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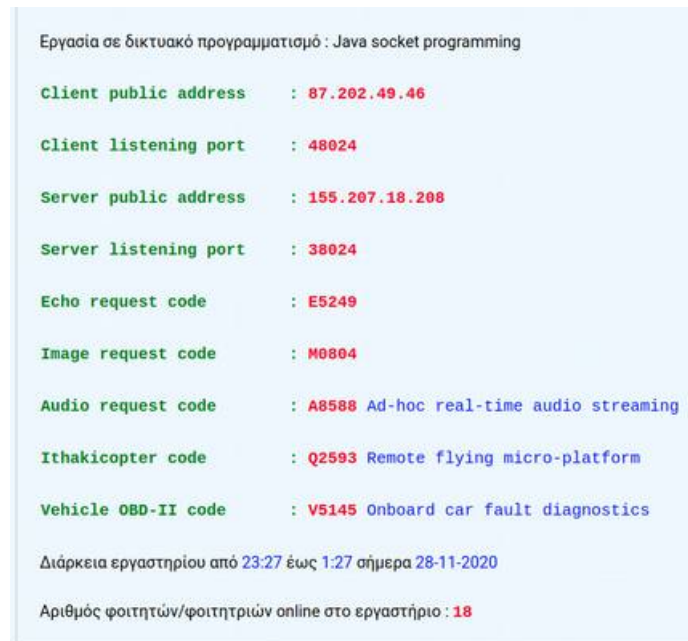
Εξάμηνο : 9ο

Δεδομένα και κώδικες της εργασίας [εδώ](#)

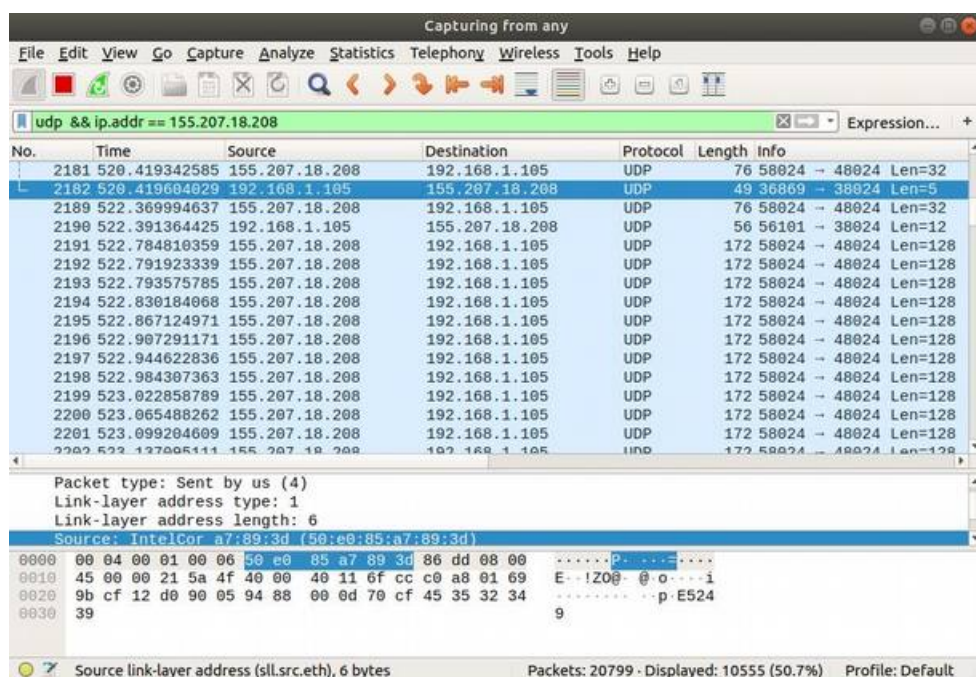
Στο παρόν αρχείο παρατίθενται το σύνολο των screenshot από το εργαλείο Wireshark, που ζητήθηκαν στα πλαίσια εκπόνησης της εργασίας.

1. Session 1 Wireshark screenshots:

- Session 1 Codes and attributes



- Echo request Packet before Image application (before Image 1 download) (Session 1):



Echo request Packet before Image application

- Echo response Packet from server, before Image application (before Image 1 download) (Session 1):

The screenshot shows a Wireshark capture of network traffic. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows several UDP packets. The selected packet (No. 2190) is an echo response from 155.207.18.208 to 192.168.1.105, length 12. The packet details show the link-layer address type as 1 and length as 6. The raw packet data is displayed in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
2181	520.419342585	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2182	520.419604029	192.168.1.105	155.207.18.208	UDP	49	36869 → 38024 Len=5
2189	522.369994637	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2190	522.391364425	155.207.18.208	192.168.1.105	UDP	56	56101 → 38024 Len=12
2191	522.784810359	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2192	522.791923339	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2193	522.793575785	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2194	522.830184068	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2195	522.867124971	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2196	522.907291171	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2197	522.944622836	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2198	522.984307363	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2199	523.022858789	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2200	523.065488262	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2201	523.099204609	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2202	523.127006111	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 0000

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 00 00 08 00P.....
0010 45 00 00 3c dc 25 00 00 79 11 f4 da 9b cf 12 d0 E...<-%..y.....
0020 c0 a8 01 69 e2 a8 bb 98 00 28 49 e8 50 53 54 41 ...i... (I PSTA
0030 52 54 20 32 39 2d 31 31 2d 32 30 32 30 20 30 30 RT 29-11 -2020 00
0040 3a 32 39 3a 31 34 20 50 53 54 4f 50 :29:14 P STOP

wireshark_any_20201129002030_PBAyld.pcapng Packets: 20822 · Displayed: 10555 (50.7%) Profile: Default

Echo response Packet before Image application

- Image request Packet (for Image 1) (Session 1):

The screenshot shows a Wireshark capture of network traffic. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows several UDP packets. The selected packet (No. 2190) is an image request from 155.207.18.208 to 192.168.1.105, length 12. The packet details show the link-layer address type as 1 and length as 6. The raw packet data is displayed in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
2181	520.419342585	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2182	520.419604029	192.168.1.105	155.207.18.208	UDP	49	36869 → 38024 Len=5
2189	522.369994637	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2190	522.391364425	155.207.18.208	192.168.1.105	UDP	56	56101 → 38024 Len=12
2191	522.784810359	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2192	522.791923339	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2193	522.793575785	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2194	522.830184068	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2195	522.867124971	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2196	522.907291171	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2197	522.944622836	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2198	522.984307363	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2199	523.022858789	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2200	523.065488262	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2201	523.099204609	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2202	523.127006111	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: IntelCor_a7:89:3d (50:e0:85:a7:89:3d)
Unused: 0000

0000 00 04 00 01 00 06 50 e0 85 a7 89 3d 08 00 08 00P.....
0010 45 00 00 28 5a 7e 40 00 40 11 6f 96 c0 a8 01 69 E..(Z~@..@o...i
0020 9b cf 12 d0 db 25 94 88 00 14 70 d6 4d 30 38 30%...p M000
0030 34 43 41 4d 3d 46 49 58 4CAM=FIX

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Image request Packet

- Image 1st response Packet from server (Image 1) (Session 1):

Wireshark packet capture showing the first response packet from the server. The packet list shows a UDP packet from 192.168.1.105 to 155.207.18.208. The packet details show the source link-layer address and the packet bytes.

No.	Time	Source	Destination	Protocol	Length	Info
2181	520.419342585	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2182	520.419604029	192.168.1.105	155.207.18.208	UDP	49	36869 → 38024 Len=5
2189	522.369994637	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
2190	522.391364425	192.168.1.105	155.207.18.208	UDP	56	56101 → 38024 Len=12
2191	522.784810359	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2192	522.791923339	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2193	522.793575785	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2194	522.830184968	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2195	522.867124971	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2196	522.907291171	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2197	522.944622836	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2198	522.984307363	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2199	523.022858789	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2200	523.065488262	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2201	523.099204609	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
2202	523.127005111	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: Zte 2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 0000

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 00 00 08 00 E...&...y...y...
0010 45 00 00 9c dc 26 00 00 79 11 f4 79 9b cf 12 d0 E...i...&...y...y...
0020 c0 a8 01 69 e2 a8 bb 98 00 88 00 5f ff d8 ff e0 E...i...&...y...y...
0030 00 10 4a 46 49 46 00 01 02 00 00 01 00 01 00 00 JFIF...C...
0040 ff db 00 43 00 08 06 06 07 06 05 08 07 07 07 09 C...

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Image 1st response Packet from server

- Echo request Packet before DPCM sound application (before frequency generator sample) (Session 1):

Wireshark packet capture showing the echo request packet before DPCM sound application. The packet list shows a UDP packet from 192.168.1.105 to 155.207.18.208. The packet details show the source link-layer address and the packet bytes.

No.	Time	Source	Destination	Protocol	Length	Info
3308	588.003186566	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3309	588.819804983	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3310	588.820073384	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3311	590.254029386	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3312	590.260985824	192.168.1.105	155.207.18.208	UDP	53	55884 → 38024 Len=9
3313	590.290383895	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3314	590.320001483	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3315	590.340750235	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3316	590.374351305	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3317	590.404944580	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3318	590.431535163	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3319	590.461317689	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3320	590.490070632	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3321	590.519046131	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3322	590.552509387	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3323	590.573831954	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Frame 3310: 49 bytes on wire (392 bits), 49 bytes captured (392 bits) on interface 0
Linux cooked capture
Packet type: Sent by us (4)
Link-layer address type: 1

0000 00 04 00 01 00 06 50 e0 85 a7 89 3d 86 dd 08 00 P...n...@...i...
0010 45 00 00 21 6e 92 40 00 40 11 5b 89 c0 a8 01 69 E...n...@...i...
0020 9b cf 12 d0 ac cb 94 88 00 0d 70 cf 45 35 32 34 P...E524
0030 39 9

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Echo request Packet before DPCM sound application

- Echo response Packet from server, before DPCM sound application (before frequency generator sample) (Session 1):

The screenshot shows a Wireshark capture of network traffic. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows a series of UDP packets. Packet 3311 is selected, showing a UDP echo response from 155.207.18.208 to 192.168.1.105. The packet details pane shows the link-layer address type as 1 and length as 6. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
3308	588.003186566	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3309	588.819804983	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3310	588.820073384	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3311	590.254029386	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3312	590.260985824	192.168.1.105	155.207.18.208	UDP	53	55884 → 38024 Len=9
3313	590.290383895	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3314	590.320001483	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3315	590.348750235	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3316	590.374351305	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3317	590.404944580	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3318	590.431535163	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3319	590.461317689	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3320	590.490070632	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3321	590.519046131	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3322	590.552560387	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3323	590.573831954	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 0000

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 00 00 08 00
0010 45 00 00 3c df d5 00 00 79 11 f1 2a 9b cf 12 d0 E<<...y*...
0020 c0 a8 01 69 e2 a8 bb 98 00 28 51 e9 50 53 54 41 ...i... (Q PSTA
0030 52 54 20 32 39 2d 31 31 2d 32 30 32 30 20 30 30 RT 29-11 -2020 00
0040 3a 33 30 3a 32 32 20 50 53 54 4f 50 :30:22 P STOP

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 - Displayed: 10555 (50.7%) - Dropped: 0 (0.0%) Profile: Default

Echo response from server Packet before DPCM sound application

- DPCM sample request Packet (frequency generator sample request) (Session 1):

The screenshot shows a Wireshark capture of network traffic. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows a series of UDP packets. Packet 3312 is selected, showing a UDP packet from 155.207.18.208 to 192.168.1.105. The packet details pane shows the link-layer address type as 1 and length as 6. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
3308	588.003186566	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3309	588.819804983	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3310	588.820073384	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3311	590.254029386	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3312	590.260985824	192.168.1.105	155.207.18.208	UDP	53	55884 → 38024 Len=9
3313	590.290383895	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3314	590.320001483	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3315	590.348750235	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3316	590.374351305	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3317	590.404944580	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3318	590.431535163	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3319	590.461317689	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3320	590.490070632	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3321	590.519046131	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3322	590.552560387	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3323	590.573831954	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: IntelCor_a7:89:3d (50:e0:85:a7:89:3d)
Unused: 7265

0000 00 04 00 01 00 06 50 e0 85 a7 89 3d 72 65 08 00P...re..
0010 45 00 00 25 6f 59 40 00 40 11 5a be c0 a8 01 69 E...%Y@_@Z...i
0020 9b cf 12 d0 da 4c 94 88 00 11 70 d3 41 38 35 38L...p-A858
0030 38 54 39 30 30 8T900

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 - Displayed: 10555 (50.7%) - Dropped: 0 (0.0%) Profile: Default

DPCM sample request Packet

- DPCM sample first response Packet from server(frequency generator sample request) (Session 1):

The screenshot shows a Wireshark packet capture with the filter `udp && ip.addr == 155.207.18.208`. The packet list shows several UDP packets from 155.207.18.208 to 192.168.1.105. The selected packet (No. 3313) is a UDP packet with length 172, containing a DPCM sample first response. The packet details pane shows the link-layer address type as 1, length 6, and source as `Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)`. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
3308	588.003186566	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3309	588.819804983	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3310	588.820073384	192.168.1.105	155.207.18.208	UDP	49	44235 → 38024 Len=5
3311	590.254029386	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
3312	590.260985824	192.168.1.105	155.207.18.208	UDP	53	55884 → 38024 Len=9
3313	590.296383895	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3314	590.320001483	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3315	590.348750235	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3316	590.374351305	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3317	590.404944580	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3318	590.431535163	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3319	590.461317689	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3320	590.490070632	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3321	590.519046131	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3322	590.552560387	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128
3323	590.573831954	155.207.18.208	192.168.1.105	UDP	172	58024 → 48024 Len=128

Link-layer address type: 1
Link-layer address length: 6
Source: `Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)`
Unused: 12d9

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

DPCM sample first response Packet from server

- Echo request Packet before IthakiCopter application (Session 1):

The screenshot shows a Wireshark packet capture with the filter `udp && ip.addr == 155.207.18.208`. The packet list shows several UDP packets from 155.207.18.208 to 192.168.1.105. The selected packet (No. 7031) is a UDP packet with length 49, containing an Echo request. The packet details pane shows the link-layer address type as 1, length 6, and source as `IntelCor_a7:89:3d (50:e0:85:a7:89:3d)`. The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
7026	801.712279381	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7027	801.712542049	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7028	803.556199241	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7029	803.556490832	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7030	805.396446345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7031	805.396697819	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7032	808.469389710	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7039	808.825272959	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7146	809.833320604	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7351	810.823902980	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7546	811.847967478	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7679	812.827080809	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7812	813.826060552	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7990	814.849965233	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
8043	815.825664447	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
8223	816.825833606	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113

Link-layer address type: 1
Link-layer address length: 6
Source: `IntelCor_a7:89:3d (50:e0:85:a7:89:3d)`
Unused: b5a9

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Echo request Packet before IthakiCopter application

- Echo response Packet from server, before IthakiCopter application (Session 1):

No.	Time	Source	Destination	Protocol	Length	Info
7026	801.712279381	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7027	801.712542049	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7028	803.556199241	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7029	803.556490832	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7030	805.396446345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7031	805.396697819	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7032	808.469389710	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7039	808.825272959	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7146	809.833320604	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7351	810.823902980	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7546	811.847967478	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7679	812.827080809	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7812	813.826060552	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7990	814.849965233	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
8043	815.825664447	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
8223	816.825833606	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 0000

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 00 00 08 00+..+....
0010 45 00 00 3c ed fd 00 00 79 11 e3 02 9b cf 12 d0 E...y.....
0020 c0 a8 01 69 e2 a8 bb 98 00 28 4f eb 50 53 54 41 ...i...y..ITHA
0030 52 54 20 32 39 2d 31 31 2d 32 30 32 30 20 30 30 RT 29-11 -2020 00
0040 3a 33 34 3a 30 30 20 50 53 54 4f 50 :34:00 P STOP

Source link-layer address (sllsrc.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Echo response Packet from server, before IthakiCopter application

(We don't have Ithakicopter requests as we used the JAR application of Ithaki Copter)

- Ithakicopter's 1st response Packet (Session 1):

No.	Time	Source	Destination	Protocol	Length	Info
7026	801.712279381	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7027	801.712542049	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7028	803.556199241	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7029	803.556490832	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7030	805.396446345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7031	805.396697819	192.168.1.105	155.207.18.208	UDP	49	50536 → 38024 Len=5
7032	808.469389710	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
7039	808.825272959	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7146	809.833320604	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113
7351	810.823902980	155.207.18.208	192.168.1.105	UDP	157	61280 → 48078 Len=113

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 6156
Protocol: IPv4 (0x0800)

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 61 56 08 00+..+....[aV...
0010 45 00 00 8d ed ff 00 00 79 11 e2 af 9b cf 12 d0 E...y.....
0020 c0 a8 01 69 ef 60 bb ce 00 79 9a 15 49 54 48 41 ...i...y..ITHA
0030 4b 49 43 4f 50 54 45 52 20 32 39 2d 31 31 2d 32 KICOPTER 29-11-2
0040 30 32 30 20 30 30 3a 33 34 3a 30 31 20 4c 4d 4f 020 00:3 4:01 LMO
0050 54 4f 52 3d 31 38 34 20 52 4d 4f 54 4f 52 3d 31 TOR=184 RMOTOR=1
0060 38 34 20 41 4c 54 49 54 55 44 45 3d 32 33 30 20 84 ALTI UDE=230
0070 54 45 4d 50 45 52 41 54 55 52 45 3d 2b 32 33 2e TEMPERAT URE=+23.
0080 39 34 20 50 52 45 53 53 55 52 45 3d 31 30 31 30 94 PRESS URE=1010
0090 2e 39 33 20 54 45 4c 45 4d 45 54 52 59 .93 TELE METRY

Source link-layer address (sllsrc.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Ithakicopter's 1st response Packet

- Echo request Packet before ODB-II diagnostics application (Session 1):**

No.	Time	Source	Destination	Protocol	Length	Info
16724	905.756953345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16725	905.757114850	192.168.1.105	155.207.18.208	UDP	49	46369 → 38024 Len=5
16726	907.693231159	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16727	907.695231380	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16728	907.727117769	155.207.18.208	192.168.1.105	UDP	55	58024 → 48024 Len=11
16729	907.733308201	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16730	907.900611100	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16731	907.902167904	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16732	907.962115383	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16733	907.963628548	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16

Link-layer address type: 1
Link-layer address length: 6
Source: IntelCor_a7:89:3d (50:e0:85:a7:89:3d)
Unused: 0404
Protocol: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.105, Dst: 155.207.18.208
User Datagram Protocol, Src Port: 46369, Dst Port: 38024
Data (5 bytes)
0000 00 04 00 01 00 06 50 e0 85 a7 89 3d 04 04 08 00P...=...
0010 45 00 00 21 3b 5c 40 00 40 11 8e bf c0 a8 01 69 E...!;\@. @.....i
0020 9b cf 12 d0 b5 21 94 88 00 0d 70 cf 45 35 32 34!...p-E524
0030 39 9

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Echo request Packet before ODB-II diagnostics application

- Echo response Packet from server, before ODB-II diagnostics application (Session 1):**

No.	Time	Source	Destination	Protocol	Length	Info
16724	905.756953345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16725	905.757114850	192.168.1.105	155.207.18.208	UDP	49	46369 → 38024 Len=5
16726	907.693231159	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16727	907.695231380	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16728	907.727117769	155.207.18.208	192.168.1.105	UDP	55	58024 → 48024 Len=11
16729	907.733308201	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16730	907.900611100	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16731	907.902167904	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16732	907.962115383	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16733	907.963628548	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 0000
Protocol: IPv4 (0x0800)
Internet Protocol Version 4, Src: 155.207.18.208, Dst: 192.168.1.105
User Datagram Protocol, Src Port: 58024, Dst Port: 48024
Data (32 bytes)
0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 00 00 08 00[...
0010 45 00 00 3c 26 1c 00 00 79 11 aa e4 9b cf 12 d0 E...<&...y.....
0020 c0 a8 01 69 e2 a8 bb 98 00 28 4b e2 50 53 54 41 ...i...-(K-PSTA
0030 52 54 20 32 39 2d 31 31 2d 32 30 32 30 20 30 30 RT 29-11 -2020 00
0040 3a 33 35 3a 33 39 20 50 53 54 4f 50 :35:39 P STOP

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

Echo response Packet from server, before ODB-II diagnostics application

- **ODB-II diagnostics request Packet (Engine Runtime Request) (Session 1):**

No.	Time	Source	Destination	Protocol	Length	Info
16724	905.756953345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16725	905.757114850	192.168.1.105	155.207.18.208	UDP	49	46369 → 38024 Len=5
16726	907.693231159	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16727	907.695231380	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16728	907.727117769	155.207.18.208	192.168.1.105	UDP	55	58024 → 48024 Len=11
16729	907.733308201	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16730	907.900611100	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16731	907.902167904	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16732	907.962115383	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16733	907.963628548	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16

Link-layer address type: 1
Link-layer address length: 6
Source: IntelCor_a7:89:3d (50:e0:85:a7:89:3d)
Unused: 3135
Protocol: IPv4 (0x0800)
Internet Protocol Version 4, Src: 192.168.1.105, Dst: 155.207.18.208
User Datagram Protocol, Src Port: 39826, Dst Port: 38024
Data (16 bytes)

Offset	Hex	ASCII
0000	00 04 00 01 00 06 50 e0 85 a7 89 3d 31 35 08 00P....15..
0010	45 00 00 2c 3d 07 40 00 40 11 8d 09 c0 a8 01 69	E...=-@...@.....i
0020	9b cf 12 d0 9b 92 94 88 00 18 70 da 56 35 31 34-p-V514
0030	35 0d 4f 42 44 3d 30 31 20 31 46 0d	5 OBD=01 1F

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

ODB-II diagnostics request Packet (Engine Runtime Request)

- **ODB-II diagnostics response Packet (Engine Runtime Response) (Session 1):**

No.	Time	Source	Destination	Protocol	Length	Info
16724	905.756953345	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16725	905.757114850	192.168.1.105	155.207.18.208	UDP	49	46369 → 38024 Len=5
16726	907.693231159	155.207.18.208	192.168.1.105	UDP	76	58024 → 48024 Len=32
16727	907.695231380	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16728	907.727117769	155.207.18.208	192.168.1.105	UDP	55	58024 → 48024 Len=11
16729	907.733308201	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16730	907.900611100	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16731	907.902167904	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16
16732	907.962115383	155.207.18.208	192.168.1.105	UDP	52	58024 → 48024 Len=8
16733	907.963628548	192.168.1.105	155.207.18.208	UDP	60	39826 → 38024 Len=16

Link-layer address type: 1
Link-layer address length: 6
Source: Zte_2b:d0:5b (b0:ac:d2:2b:d0:5b)
Unused: 3134
Protocol: IPv4 (0x0800)
Internet Protocol Version 4, Src: 155.207.18.208, Dst: 192.168.1.105
User Datagram Protocol, Src Port: 58024, Dst Port: 48024
Data (11 bytes)

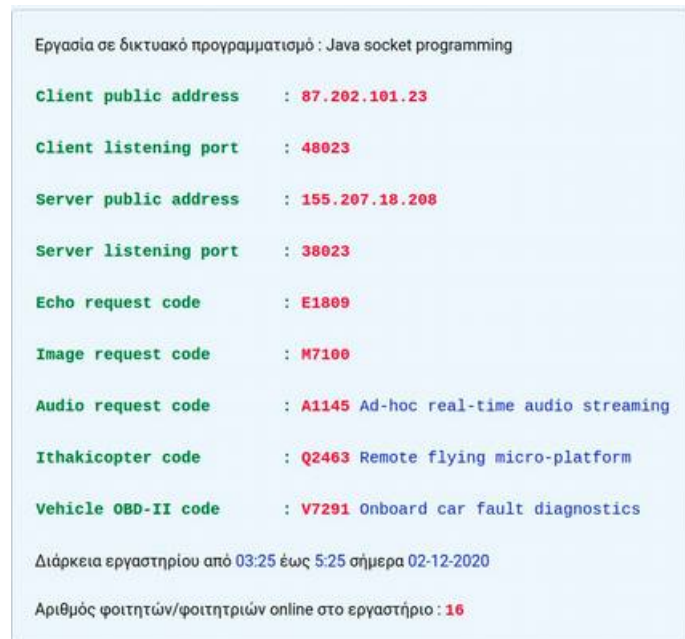
Offset	Hex	ASCII
0000	00 00 00 01 00 06 b0 ac d2 2b d0 5b 31 34 08 00+..[14..
0010	45 00 00 27 26 1d 00 00 79 11 aa f8 9b cf 12 d0	E...&...y.....
0020	c0 a8 01 69 e2 a8 bb 98 00 13 cd e8 34 31 20 31	...i.....41 1
0030	46 20 30 33 20 37 38	F 03 78

Source link-layer address (sll.src.eth), 6 bytes Packets: 20822 · Displayed: 10555 (50.7%) · Dropped: 0 (0.0%) Profile: Default

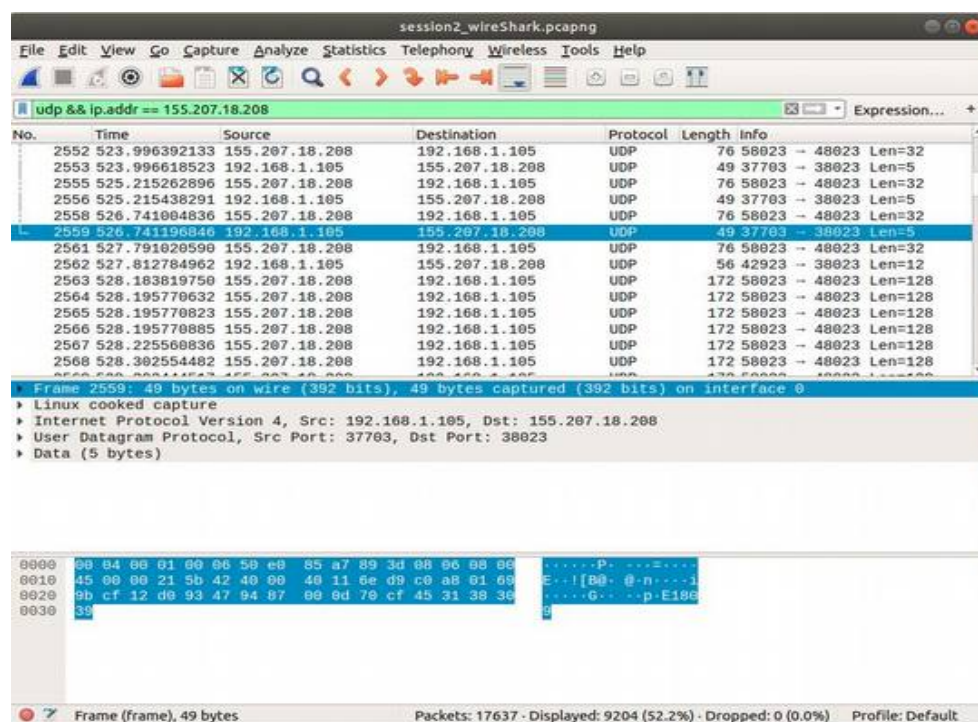
ODB-II diagnostics response Packet (Engine Runtime Response)

2. Session 2 Wireshark screenshots:

- Session 2 Codes and attributes



- Echo request Packet before Image application (before Image 1 download) (Session 2):



Echo request Packet before Image application

- Echo response Packet from server, before Image application (before Image 1 download) (Session 2):

The screenshot shows a Wireshark capture of a network session. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows several UDP packets. Packet 2561 is selected, showing details for a Linux cooked capture, Internet Protocol Version 4, User Datagram Protocol, and Data (32 bytes). The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
2552	523.996392133	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2553	523.996618523	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2555	525.215262896	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2556	525.215438291	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2558	526.741004836	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2559	526.741196846	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2561	527.791020590	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2562	527.812784962	192.168.1.105	155.207.18.208	UDP	56	42923 → 38023 Len=12
2563	528.183819750	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2564	528.195770632	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2565	528.195770823	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2566	528.195770885	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2567	528.225560836	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2568	528.302554482	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128

Frame 2561: 76 bytes on wire (608 bits), 76 bytes captured (608 bits) on interface 0

- Linux cooked capture
- Internet Protocol Version 4, Src: 155.207.18.208, Dst: 192.168.1.105
- User Datagram Protocol, Src Port: 58023, Dst Port: 48023
- Data (32 bytes)

0000 00 00 00 01 00 00 b0 ac d2 2b d0 5b 00 00 08 00+.[....
 0010 45 00 00 3c 31 a3 00 00 79 11 9f 5d 9b cf 12 d8 E...<1...y...]
 0020 c0 a8 01 69 e2 a7 bb 97 00 28 51 e5 50 53 54 41 ...i... (Q-PSSTA
 0030 52 54 20 30 32 2d 31 32 2d 32 30 32 30 20 30 34 RT 02-12 -2020 04
 0040 3a 31 38 3a 31 37 20 50 53 54 4f 50 :18:17 P STOP

Echo response Packet from server, before Image application

- Image request Packet (for Image 1) (Session 2):

The screenshot shows a Wireshark capture of a network session. The filter is set to 'udp && ip.addr == 155.207.18.208'. The packet list shows several UDP packets. Packet 2562 is selected, showing details for a Linux cooked capture, Internet Protocol Version 4, User Datagram Protocol, and Data (12 bytes). The packet bytes pane shows the raw data in hexadecimal and ASCII.

No.	Time	Source	Destination	Protocol	Length	Info
2552	523.996392133	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2553	523.996618523	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2555	525.215262896	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2556	525.215438291	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2558	526.741004836	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2559	526.741196846	192.168.1.105	155.207.18.208	UDP	49	37703 → 38023 Len=5
2561	527.791020590	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
2562	527.812784962	192.168.1.105	155.207.18.208	UDP	56	42923 → 38023 Len=12
2563	528.183819750	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2564	528.195770632	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2565	528.195770823	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2566	528.195770885	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2567	528.225560836	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128
2568	528.302554482	155.207.18.208	192.168.1.105	UDP	172	58023 → 48023 Len=128

Frame 2562: 56 bytes on wire (448 bits), 56 bytes captured (448 bits) on interface 0

- Linux cooked capture
- Internet Protocol Version 4, Src: 192.168.1.105, Dst: 155.207.18.208
- User Datagram Protocol, Src Port: 42923, Dst Port: 38023
- Data (12 bytes)

0000 00 04 00 01 00 00 50 e0 85 a7 89 3d 00 00 08 00P.....
 0010 45 00 00 28 5b a8 40 00 40 11 6e 6c c0 a8 01 69 E..[. @.n1...1
 0020 9b cf 12 d0 a7 ab 94 87 00 14 70 d6 4d 37 31 38p.M716
 0030 30 43 41 4d 3d 46 49 50 0CAM=FIX

Image request Packet

- Image 1st response Packet from server (Image 1) (Session 2):

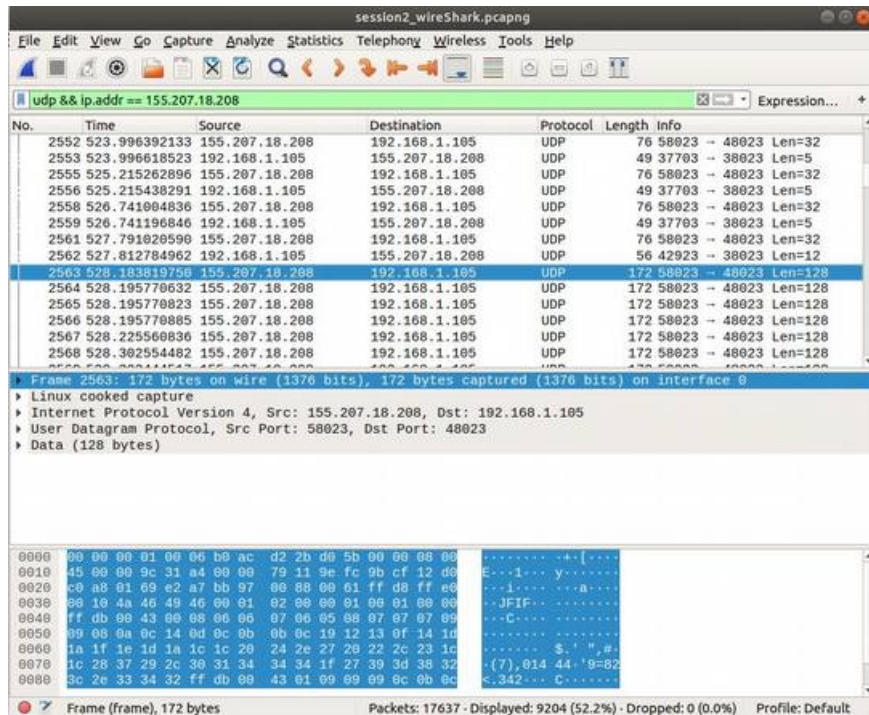
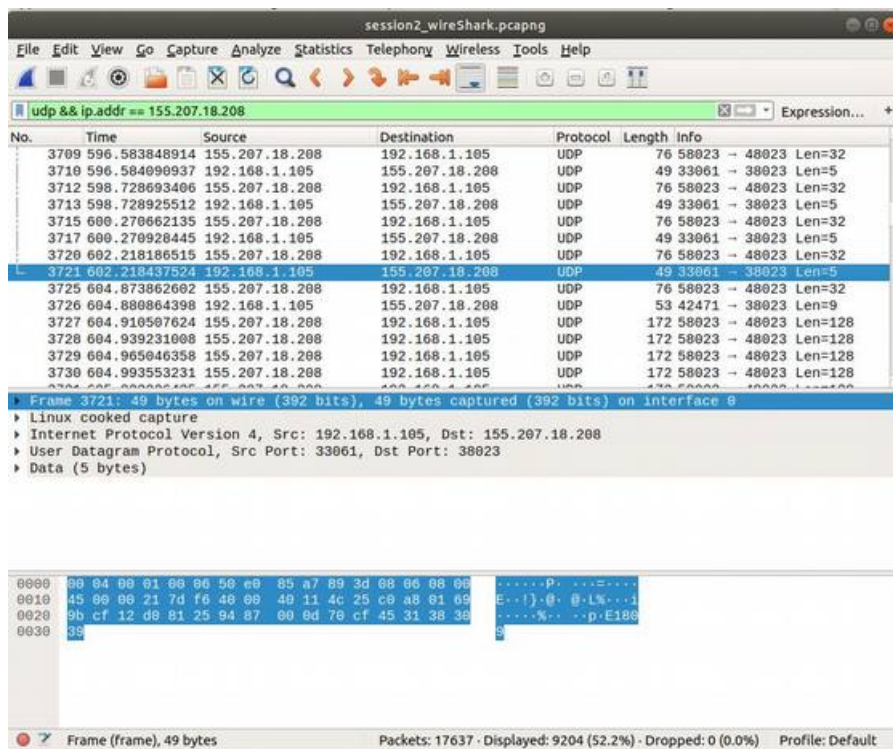


Image 1st response Packet from server

- Echo request Packet before DPCM sound application (before frequency generator sample) (Session 2):



Echo request Packet before DPCM sound application

- Echo response Packet from server, before DPCM sound application (before frequency generator sample) (Session 2):

The screenshot shows a Wireshark capture of a network packet. The filter is set to `udp && ip.addr == 155.207.18.208`. The packet list shows a UDP packet from 155.207.18.208 to 192.168.1.105, length 76 bytes. The packet details pane shows the following structure:

- Linux cooked capture
- Internet Protocol Version 4, Src: 155.207.18.208, Dst: 192.168.1.105
- User Datagram Protocol, Src Port: 58023, Dst Port: 48023
- Data (32 bytes)

The packet bytes pane shows the raw data in hexadecimal and ASCII. The ASCII part shows a null terminator followed by a string of characters, including "PSTN" and "STOP".

Echo response Packet from server, before DPCM sound application

- DPCM sample request Packet (frequency generator sample request) (Session 2):

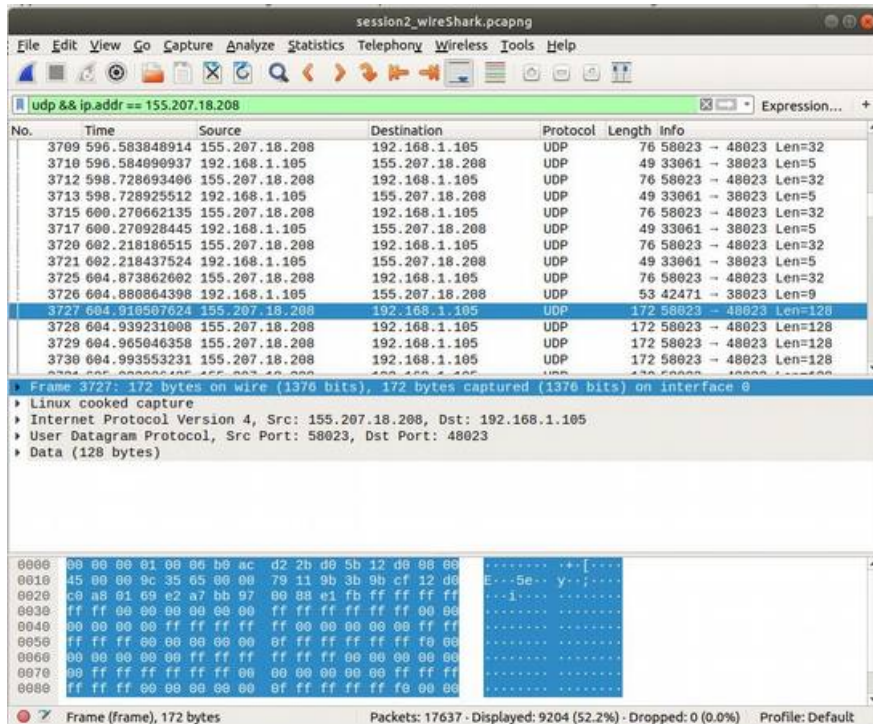
The screenshot shows a Wireshark capture of a network packet. The filter is set to `udp && ip.addr == 155.207.18.208`. The packet list shows a UDP packet from 192.168.1.105 to 155.207.18.208, length 53 bytes. The packet details pane shows the following structure:

- Linux cooked capture
- Internet Protocol Version 4, Src: 192.168.1.105, Dst: 155.207.18.208
- User Datagram Protocol, Src Port: 42471, Dst Port: 38023
- Data (9 bytes)

The packet bytes pane shows the raw data in hexadecimal and ASCII. The ASCII part shows a string of characters, including "PSTN" and "STOP".

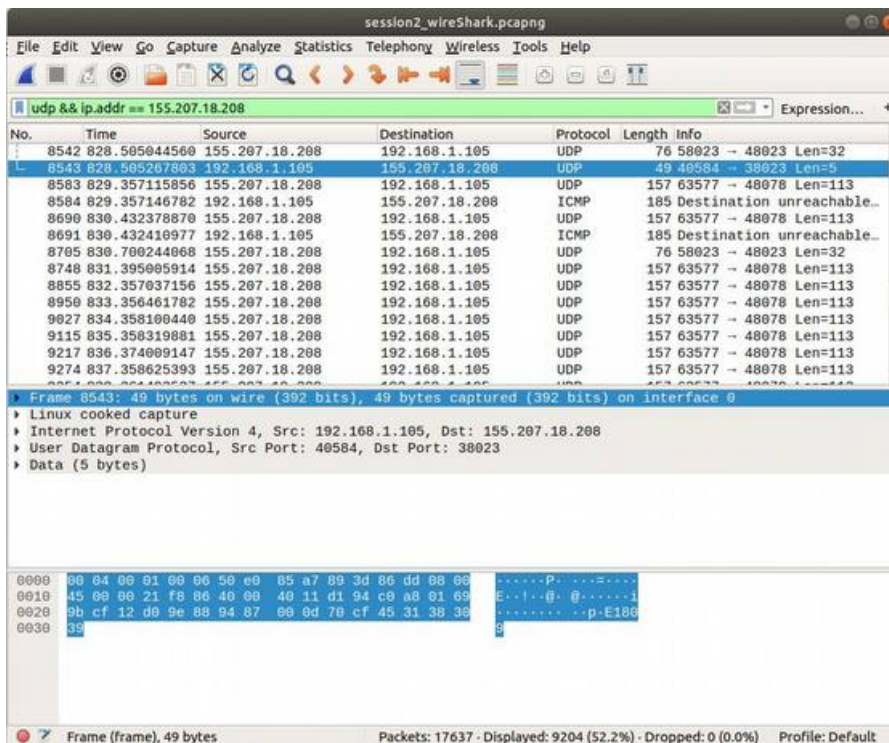
DPCM sample request Packet

- DPCM sample first response Packet from server(frequency generator sample request) (Session 2):



DPCM sample first response Packet from server

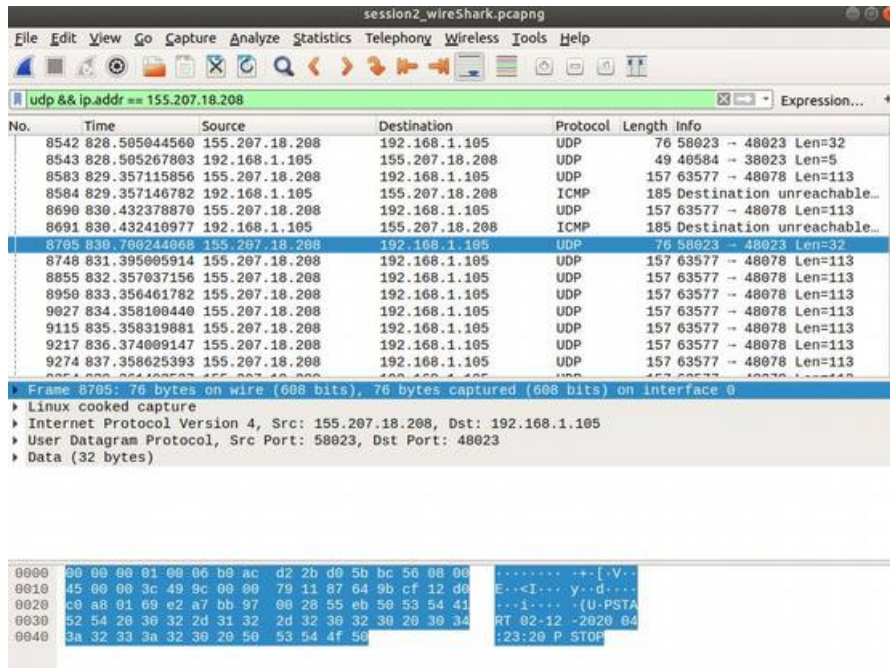
- Echo request Packet before IthakiCopter application (Session 2):



Echo request Packet before IthakiCopter application

Βλέπουμε ότι κατά τα screenshot που έχουν να κάνουν με την εφαρμογή IthakiCopter κατά το session 2 έχουμε και πακέτα τύπου ICMP, οποία από ότι φαίνεται έχουν κανουν με την εφαρμογή ithakicopter.jar, που εκίνησε λίγο πριν την ενάρξη της λήψης των μετρήσεων telemetry. Κατά την εκίνηση του ithakicopter.jar το copter ήταν εν κίνηση, ενδεχομένως εξαιτίας της τηλεδιάχειρισης του copter από κάποιο συνάδελφο .

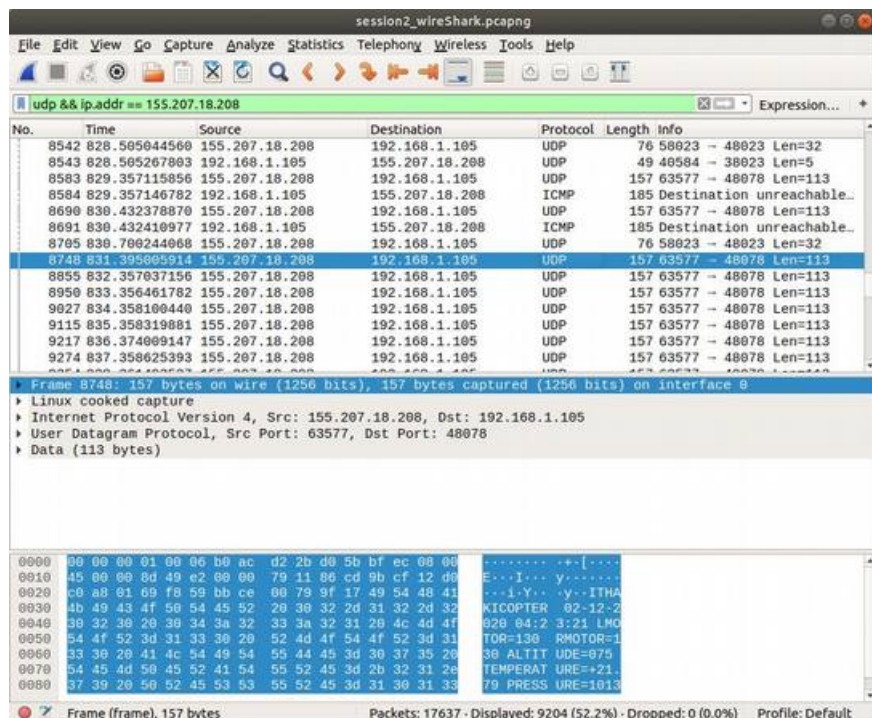
- **Echo response Packet from server, before IthakiCopter application (Session 2):**



Echo response Packet from server, before IthakiCopter application

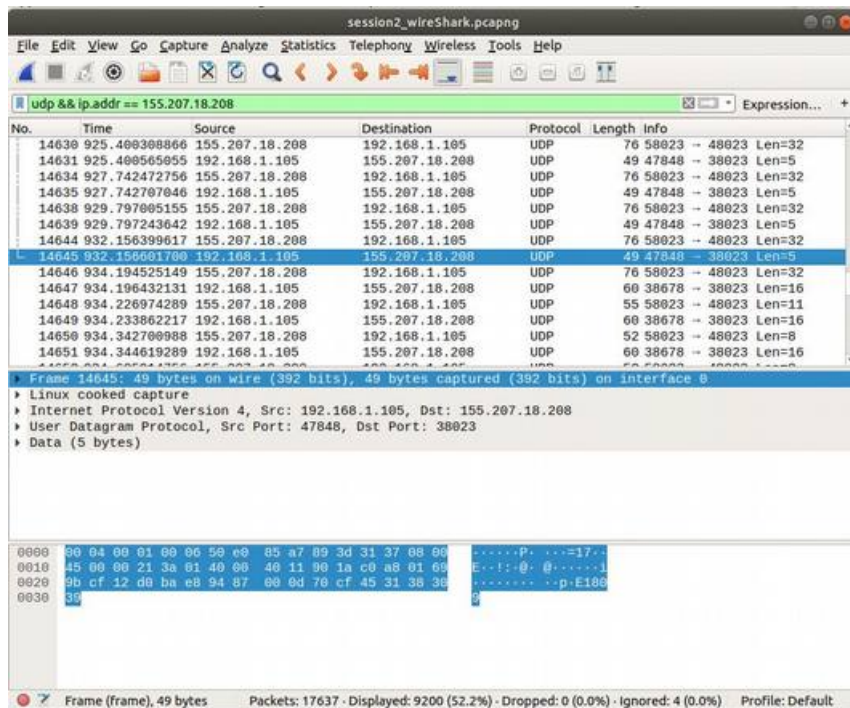
(We don't have Ithakicopter requests as we used the JAR application of Ithaki Copter)

- **Ithakicopter's 1st response Packet (Session 2):**



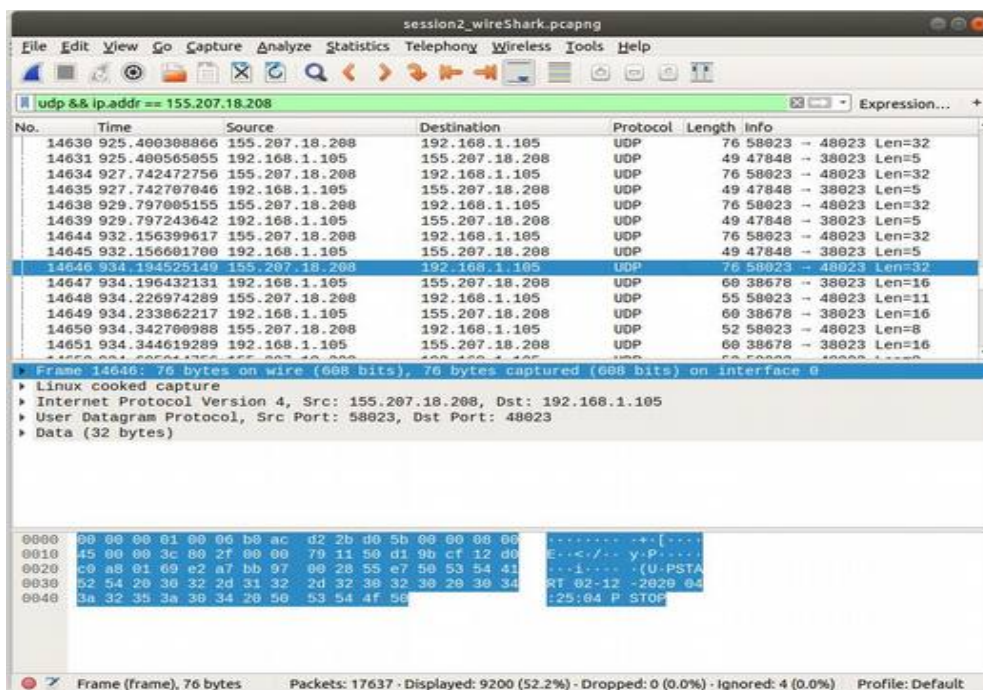
Ithakicopter's 1st response Packet

- Echo request Packet before ODB-II diagnostics application (Session 2):



Echo request Packet before ODB-II diagnostics application

- Echo response Packet from server, before ODB-II diagnostics application (Session 2):



Echo response Packet from server, before ODB-II diagnostics application

- ODB-II diagnostics request Packet (Engine Runtime Request) (Session 2):

session2_wireshark.pcapng

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udp && ip.addr == 155.207.18.208

No.	Time	Source	Destination	Protocol	Length	Info
14630	925.400308866	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14631	925.400565055	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14634	927.742472756	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14635	927.742707046	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14638	929.797095155	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14639	929.797243642	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14644	932.156399617	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14645	932.156601700	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14646	934.194525149	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14647	934.196432131	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16
14648	934.226974289	155.207.18.208	192.168.1.105	UDP	55	58023 → 48023 Len=11
14649	934.233862217	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16
14650	934.342700988	155.207.18.208	192.168.1.105	UDP	52	58023 → 48023 Len=8
14651	934.344619289	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16

Frame 14647: 60 bytes on wire (480 bits), 60 bytes captured (480 bits) on interface 0

Linux cooked capture

Internet Protocol Version 4, Src: 192.168.1.105, Dst: 155.207.18.208

User Datagram Protocol, Src Port: 38678, Dst Port: 38023

Data (16 bytes)

0000 00 04 00 01 00 06 50 e0 85 a7 89 3d 31 37 08 00P.....=17..

0010 45 00 00 2c 3b 62 40 00 40 11 8e ae c0 a8 01 69 E...;b@. @.....1

0020 9b cf 12 d0 97 16 94 87 00 18 70 da 56 37 32 39p.V729

0030 31 d0 4f 42 44 3d 30 31 20 31 46 0d 1-0BD=01 1F..

Internet Proto...(ip), 20 byte Packets: 17637 - Displayed: 9200 (52.2%) - Dropped: 0 (0.0%) - Ignored: 4 (0.0%) Profile: Default

ODB-II diagnostics request Packet (Engine Runtime Request)

- ODB-II diagnostics response Packet (Engine Runtime Response) (Session 2):

session2_wireshark.pcapng

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udp && ip.addr == 155.207.18.208

No.	Time	Source	Destination	Protocol	Length	Info
14630	925.400308866	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14631	925.400565055	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14634	927.742472756	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14635	927.742707046	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14638	929.797095155	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14639	929.797243642	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14644	932.156399617	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14645	932.156601700	192.168.1.105	155.207.18.208	UDP	49	47848 → 38023 Len=5
14646	934.194525149	155.207.18.208	192.168.1.105	UDP	76	58023 → 48023 Len=32
14647	934.196432131	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16
14648	934.226974289	155.207.18.208	192.168.1.105	UDP	55	58023 → 48023 Len=11
14649	934.233862217	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16
14650	934.342700988	155.207.18.208	192.168.1.105	UDP	52	58023 → 48023 Len=8
14651	934.344619289	192.168.1.105	155.207.18.208	UDP	60	38678 → 38023 Len=16

Frame 14648: 55 bytes on wire (440 bits), 55 bytes captured (440 bits) on interface 0

Linux cooked capture

Internet Protocol Version 4, Src: 155.207.18.208, Dst: 192.168.1.105

User Datagram Protocol, Src Port: 58023, Dst Port: 48023

Data (11 bytes)

0000 00 00 00 01 00 06 b0 ac d2 2b d0 5b 40 00 08 00+ [@...

0010 45 00 00 27 80 30 00 00 79 11 50 e5 9b cf 12 d0 E...0...y.P....

0020 c0 a8 01 69 e2 a7 bb 97 00 13 cf ed 34 31 20 31 ...1.....41 1

0030 46 20 30 33 20 34 36 F 03 46

Internet Proto...(ip), 20 byte Packets: 17637 - Displayed: 9200 (52.2%) - Dropped: 0 (0.0%) - Ignored: 4 (0.0%) Profile: Default

ODB-II diagnostics response Packet (Engine Runtime Response)