

## 1. Заголовок состоит из 4 полей

Wireshark packet capture showing UDP traffic. The packet list shows several QUIC packets. Packet 120 is selected, showing details for Ethernet II, Internet Protocol Version 4, and User Datagram Protocol. The UDP payload is 33 bytes.

No.	Time	Source	Destination	Protocol	Length	Info
114	2022-04-08 20:29:00,950503	173.194.222.132	192.168.0.100	QUIC	68	Protected Payload (KP0)
115	2022-04-08 20:29:00,950503	173.194.222.132	192.168.0.100	QUIC	69	Protected Payload (KP0)
116	2022-04-08 20:29:00,957618	173.194.222.132	192.168.0.100	QUIC	1288	Protected Payload (KP0)
117	2022-04-08 20:29:00,957618	173.194.222.132	192.168.0.100	QUIC	238	Protected Payload (KP0)
118	2022-04-08 20:29:00,957618	173.194.222.132	192.168.0.100	QUIC	67	Protected Payload (KP0)
119	2022-04-08 20:29:00,957864	192.168.0.100	173.194.222.132	QUIC	77	Protected Payload (KP0), DCID=352c073cf
120	2022-04-08 20:29:00,957963	192.168.0.100	173.194.222.132	QUIC	75	Protected Payload (KP0), DCID=352c073cf
121	2022-04-08 20:29:00,989444	173.194.222.132	192.168.0.100	QUIC	67	Protected Payload (KP0)

Frame 120: 75 bytes on wire (600 bits), 75 bytes captured (600 bits) on interface \Device\NPF\_{AFA1B8C0-2747-4BC5-815A-D8DE55689840}, id 0

Ethernet II, Src: IntelCor\_86:5b:64 (64:5d:86:86:5b:64), Dst: TP-Link\_4a:ce:99 (c0:06:c3:4a:ce:99)

Internet Protocol Version 4, Src: 192.168.0.100, Dst: 173.194.222.132

User Datagram Protocol, Src Port: 64803, Dst Port: 443

- Source Port: 64803
- Destination Port: 443
- Length: 41
- Checksum: 0x53a1 [unverified]
- [Checksum Status: Unverified]
- [Stream index: 3]
- [Timestamps]
- UDP payload (33 bytes)

QUIC IETF

2. source port - 2, destination port - 2, length - 2, checksum - 2

3. Length = 8 (заголовок) + 33 (данные)

4. 65527

5. 65535

6. 17 или 0x11

Wireshark packet capture showing UDP traffic. The packet list shows several QUIC packets. Packet 120 is selected, showing details for Ethernet II, Internet Protocol Version 4, and User Datagram Protocol. The UDP payload is 33 bytes.

No.	Time	Source	Destination	Protocol	Length	Info
119	2022-04-08 20:29:00,957864	192.168.0.100	173.194.222.132	QUIC	77	Protected Payload (KP0), DCID=352c073cf5a7d6c
120	2022-04-08 20:29:00,957963	192.168.0.100	173.194.222.132	QUIC	75	Protected Payload (KP0), DCID=352c073cf5a7d6c
121	2022-04-08 20:29:00,989444	173.194.222.132	192.168.0.100	QUIC	67	Protected Payload (KP0)

.... 0101 = Header Length: 20 bytes (5)

> Differentiated Services Field: 0x00 (DSCP: CS0, ECN: Not-ECT)

Total Length: 61

Identification: 0x7768 (30568)

Flags: 0x40, Don't fragment

... 0 0000 0000 0000 = Fragment Offset: 0

Time to Live: 128

Protocol: UDP (17)

Header Checksum: 0x35f4 [validation disabled]

[Header checksum status: Unverified]

Source Address: 192.168.0.100

Destination Address: 173.194.222.132

User Datagram Protocol, Src Port: 64803, Dst Port: 443

- Source Port: 64803
- Destination Port: 443
- Length: 41
- Checksum: 0x53a1 [unverified]

0000 c0 06 c3 4a ce 99 64 5d 86 86 5b 64 08 00 45 00 ...]..d] ..[d..E:

0010 00 3d 77 68 40 00 80 35 f4 c0 a8 00 64 ad c2 ..wh@. 5...d..

0020 de 84 fd 23 01 bb 00 29 53 a1 5d 35 2c 07 3c fd ...#... S.]S,<<

0030 5a 7d 6c 66 0e e5 19 3a 76 f5 20 f9 c1 d7 41 e4 Z}lf... V...A:

0040 9e 5b b3 a7 ff 11 2b ee 6d dd 24 -[..... m-\$

Protocol (ip,proto), 1 byte(s)

Пакеты: 122 · Показаны: 89 (73.0%) · Потеряно: 0 (0.0%) · Профиль: Default

7. Порты поменялись местами