

How many bytes is UDP header? What are the different fields? How are the field values set?

Verify in Wireshark.

UDP header is of 8 bytes

The different fields are

1. Source Port (2 bytes): It is the port of the sending application
2. Destination Port (2 bytes): It is the port number of the receiving application.
3. Length (2 bytes): It is the length of the UDP header and payload
4. Checksum (2 bytes): It is the error-checking value for the header and data

Checksum Calculation:

1. Extract header fields.
2. Compute the sum of 16-bit words.
3. Add overflow if necessary.
4. Take the one's complement of the result.

Checksum Verificaiton:

- Calculatate the checksum in the receiving end, including both header and the transmitted checksum, if the result if 0xFFFF, header is correct.

Source Port (2 bytes)	Destination Port (2 bytes)
Length (2 bytes)	Checksum (2 bytes)

UDP Header

Wireshark interface showing a packet capture on the 'udp' filter. The packet list shows a UDP packet from 103.211.150.153 to 192.168.15.134 on port 58710. The packet details pane shows the User Datagram Protocol (UDP) section with the following information:

- Source Port: 443
- Destination Port: 58710
- Length: 34
- Checksum: 0xbc53 [unverified]
- [Checksum Status: Unverified]
- [Stream index: 0]
- [Timestamps]
- UDP payload (26 bytes)

The packet data pane shows the raw data of the UDP payload, which is a DNS query for the PTR record of 103.211.150.153.

Wireshark interface showing a packet capture on the 'User Datagram Protocol' filter. The packet details pane shows the User Datagram Protocol (UDP) section with the following information:

- Source Port: 5353
- Destination Port: 5353
- Length: 51
- Checksum: 0x1aa7 [unverified]
- [Checksum Status: Unverified]
- [Stream index: 2]
- [Timestamps]
- UDP payload (43 bytes)