

SYSC 4602 Assignment 4

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November 23, 2022

Part 3: IP Packet Structure

1

IP address of our computer: 172.17.59.194

IP address of remote server: 5.9.243.187

2

Yes the total length field includes the header size.

The header size is 20 bytes, the payload size is 40 bytes and the total length is 60 bytes.

3

The identification field changes for each packet. The identification field in packets being sent start from 0x5442, and increase in value by 1 for each subsequent packet. This allows the packets to be reordered if they arrive out of order. With packets being received the identification field starts at 0x4403 and increases for each subsequent packet.

4

The TTL field on packets sent from our computer is not its maximum value of 256 (0xFF). It is a lower value of 64 (0x40)

5

6

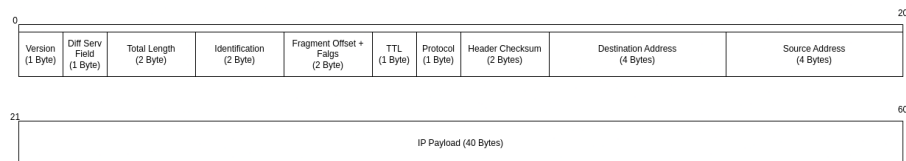


Figure 1: Acknowledgement Frame Structure

Part 4: Internet Paths

Part 5: IP Header Checksum

1

2

3

4