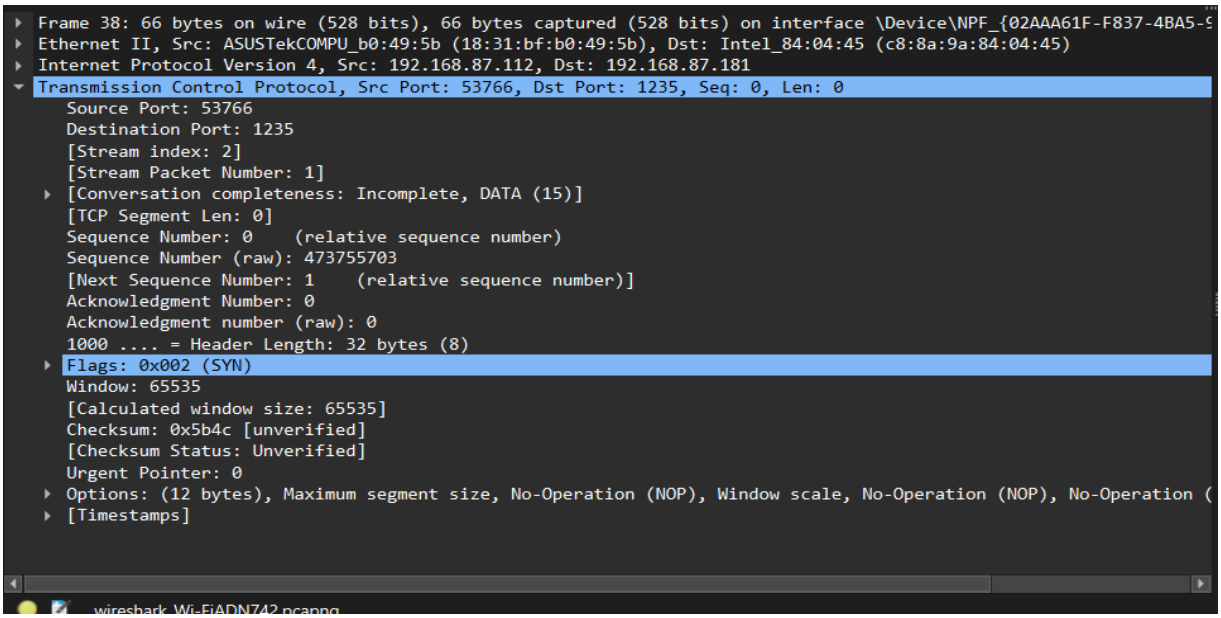
The segments exchanged in the 3-way handshake

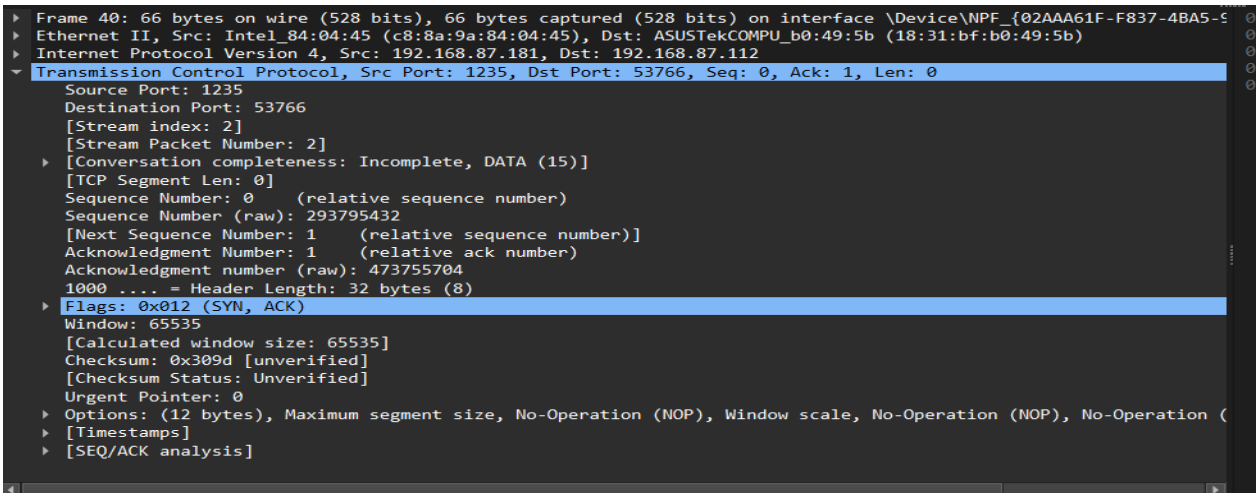
First 3-way handshake segment.

It can be identified by the SYN flag as well as the fact that it is the first segment which comes from the client (the process of establishing communication).



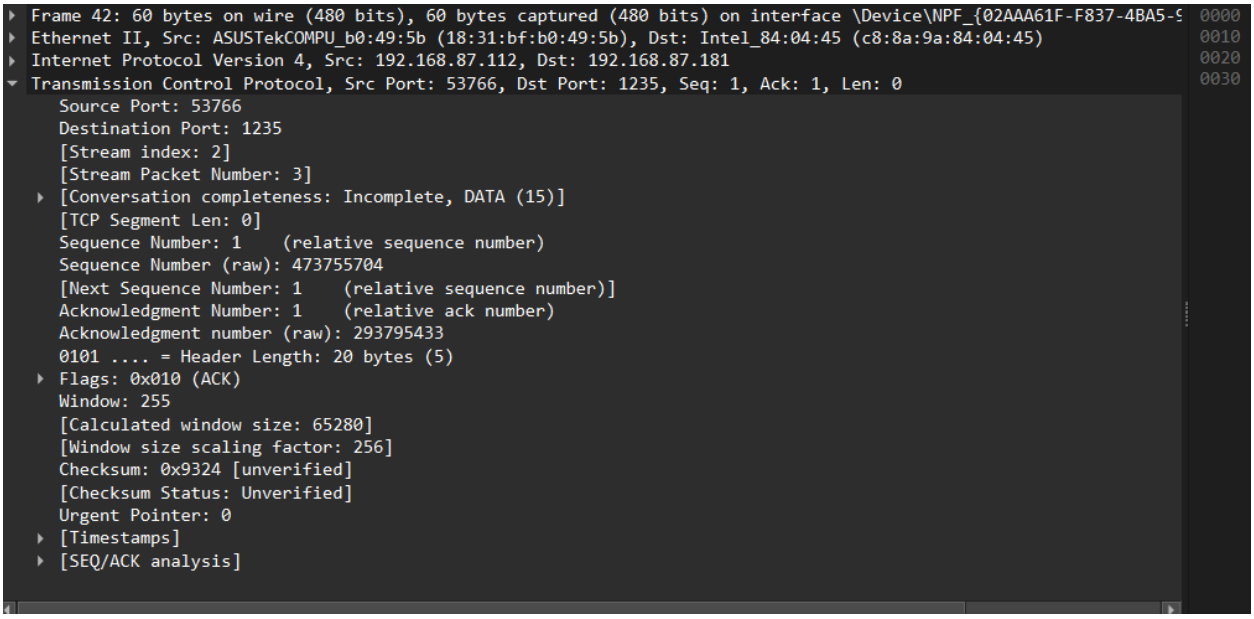
Second 3-way handshake segment.

The second segment in the process has a SYN, ACK flag and comes from the server (source port is 1235).



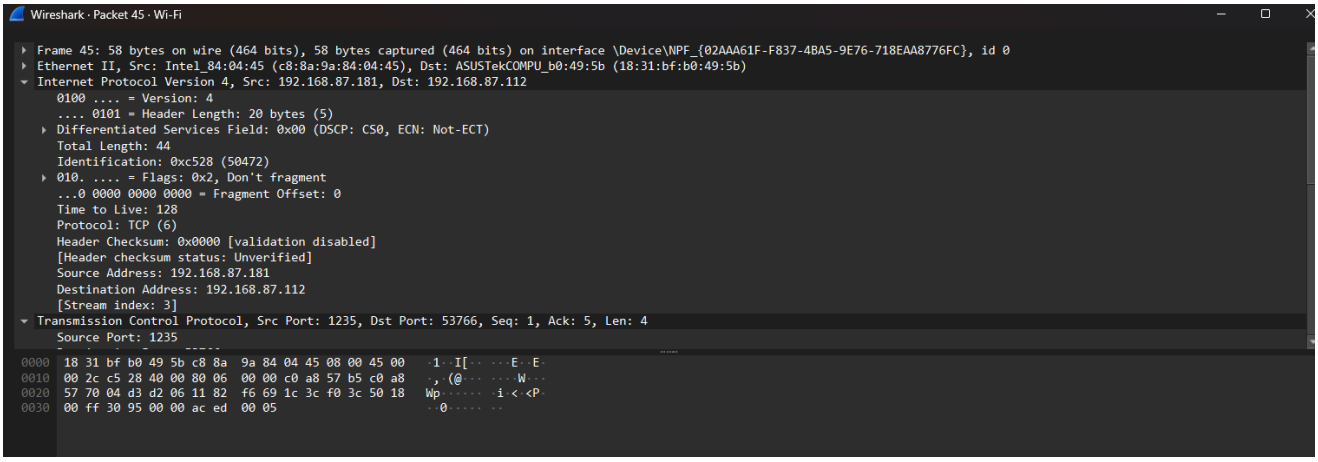
Third 3-way handshake segment (the last one).

The 3rd segment in the process has ACK flag and comes from the client.



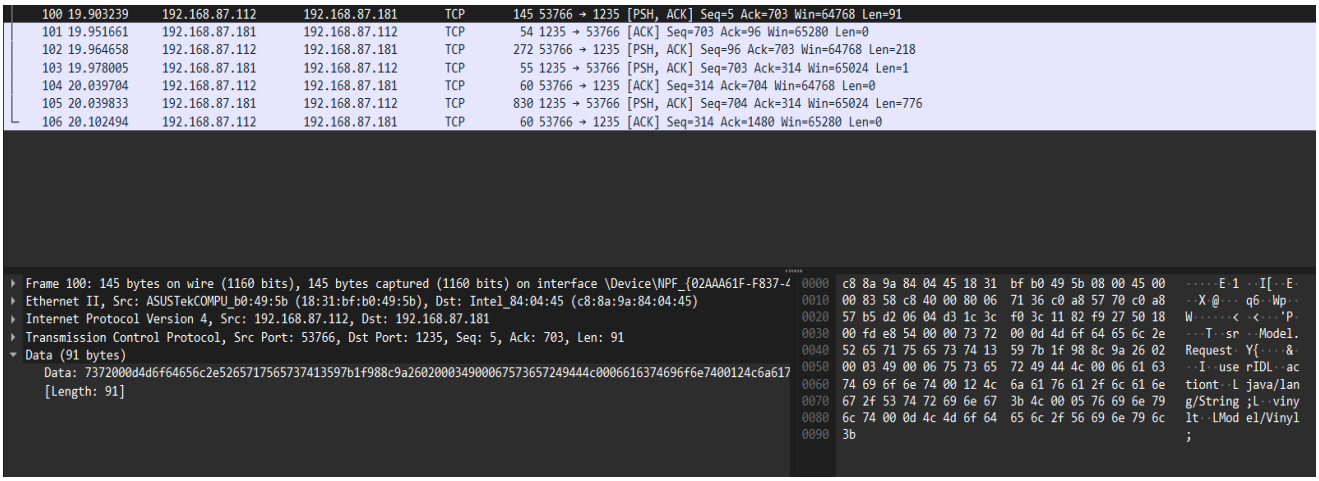
IP addresses and port numbers associated with the TCP socket established between client and server

Internet Protocol Version 4 section the source and the destination IP addresses are different as well as the ports in the Transmission Control Protocol section.



Application layer “borrow” request message from client and response message from server

Inside the data section, it can be seen that this is the request message sent by the client (source IP address and port number).



The same situation for the server response.