UDP USER−DATAGRAM STRUCTURE

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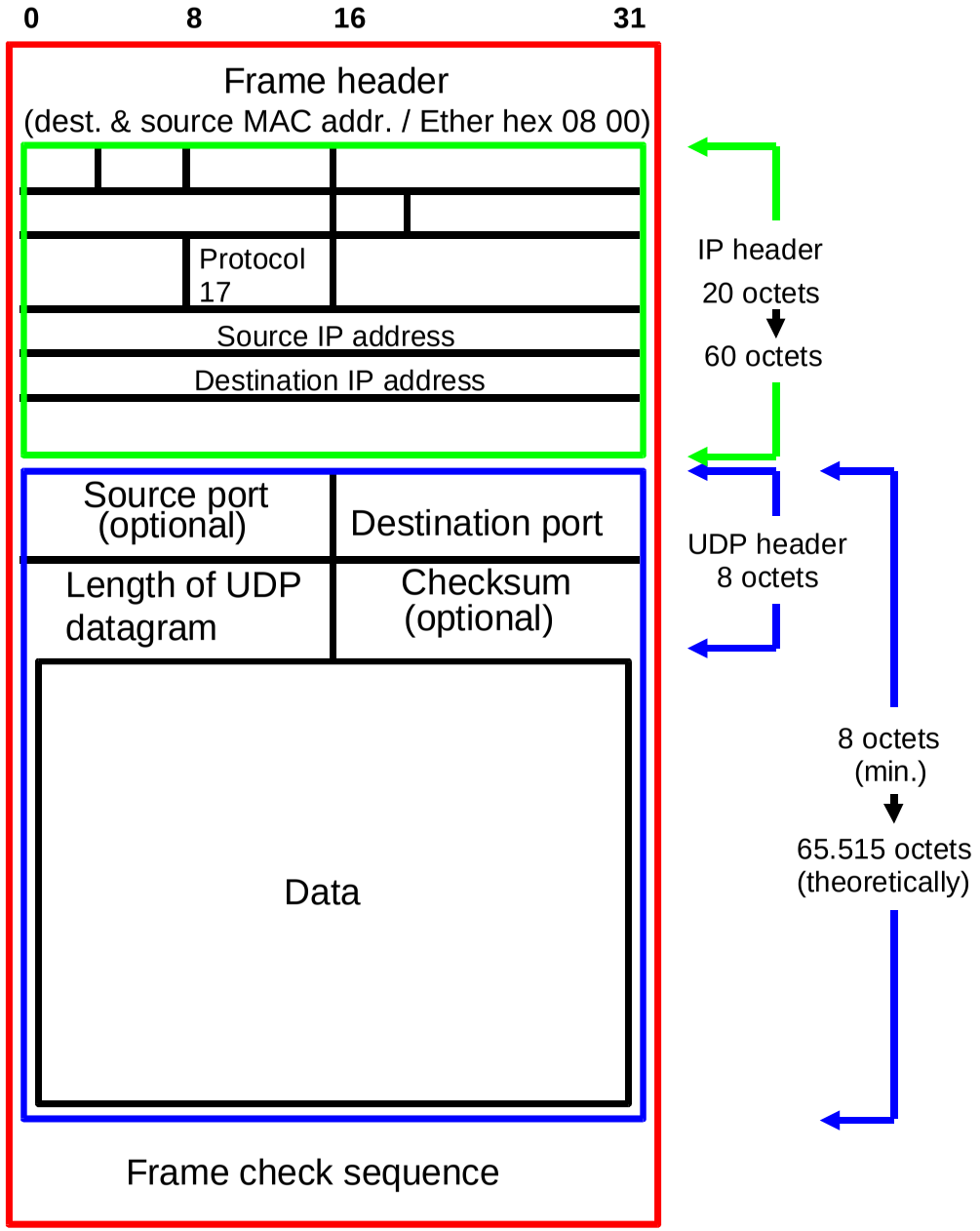
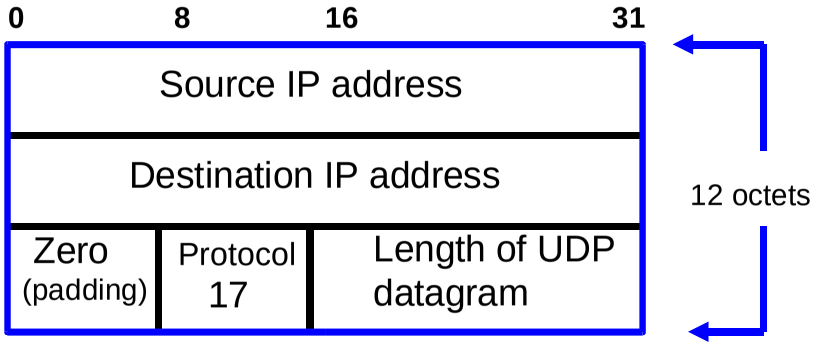
info@iserv.xs4all.nl
Author:Drs.M.Waldorp−Bonk
udpdatagr.sda 20000621

Frame with UDP User−Datagram



UDP pseudo header



How to compute a checksum?
1. Prepend pseudo header to UDP datagram
2. Store zero in the Checksum field
3. Accumulate the 16−bit one's complement of the one's complement sum of:
   − pseudo header
   − UDP header
   − (user) data
4. Store the sum in the Checksum field
5. Discard the pseudo header

Notes:

− If the Source port field or the Checksum field isn't used, its value must be set to zero.

− The pseudo header isn't transmitted nor is it included in the Length of the UDP datagram: it is temporarily prepended to the UDP header for the sole purpose of computing a Checksum

− Socket address = IP address + UDP port number.