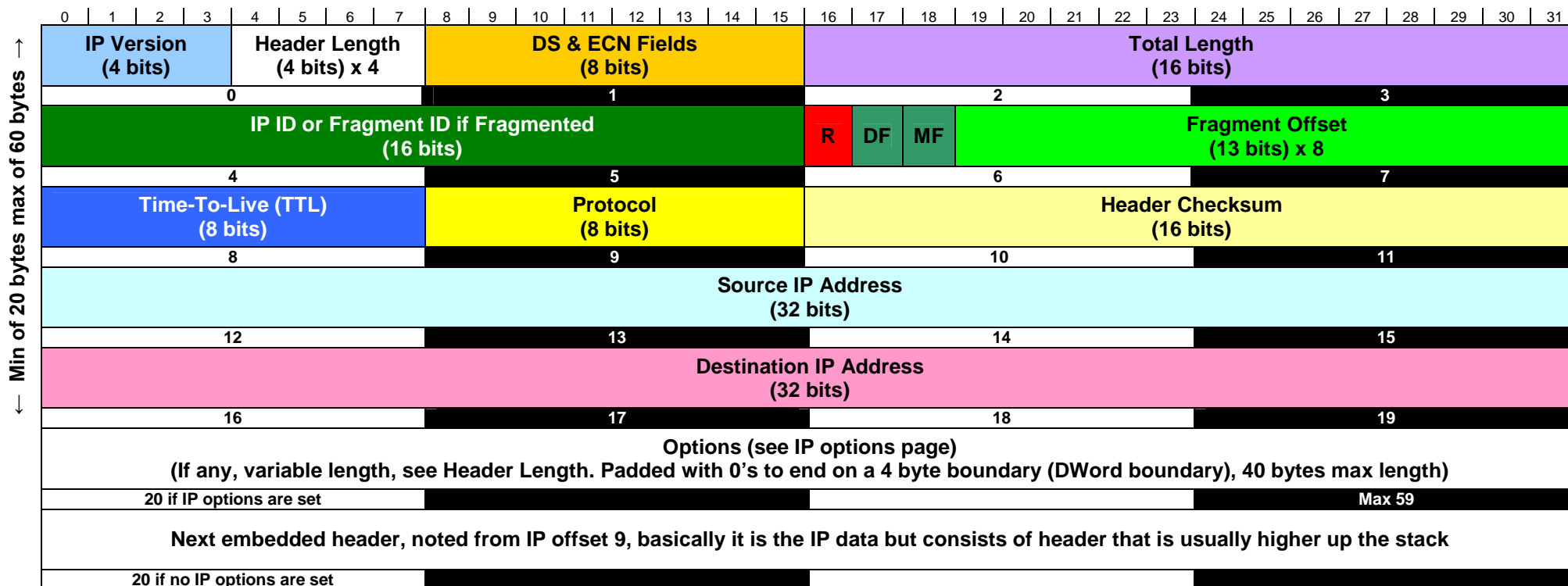


# IP Header – RFC 791, 1349, 2474 and 3168



### DS & ECN Field (1<sup>st</sup> Byte Offset)

0	1	2	3	4	5	6	7
Differentiated Services Codepoint						ECN Field	

#### Format of the Differentiated Services Codepoint Field:

Pool Codepoint space Assignment Policy  
 -----

1	xxxxx0	Standards Action
2	xxxx11	EXP/LU
3	xxxx01	EXP/LU (*)

#### ECN Field:

Bin	Keyword
---	-----
00	Not ECT (ECN-Capable Transport)
01	ECT(1) (ECN-Capable Transport(1))
10	ECT(2) (ECN-Capable Transport(2))
11	CE (Congestion Experienced)

(\*) may be utilized for future Standards Action allocations as necessary

### Flags (6<sup>th</sup> Byte offset)

- R: Bit 0 is reserved and must be zero
- DF: Bit 1: Don't fragment bit:
  - 0 May fragment
  - 1 Don't fragment
- MF: Bit 2: More fragments bit:
  - 0 Last fragment
  - 1 More fragments

### Protocols (9<sup>th</sup> byte offset)

Dec	Hex	Protocol
1	01	ICMP
6	06	TCP
17	11	UDP