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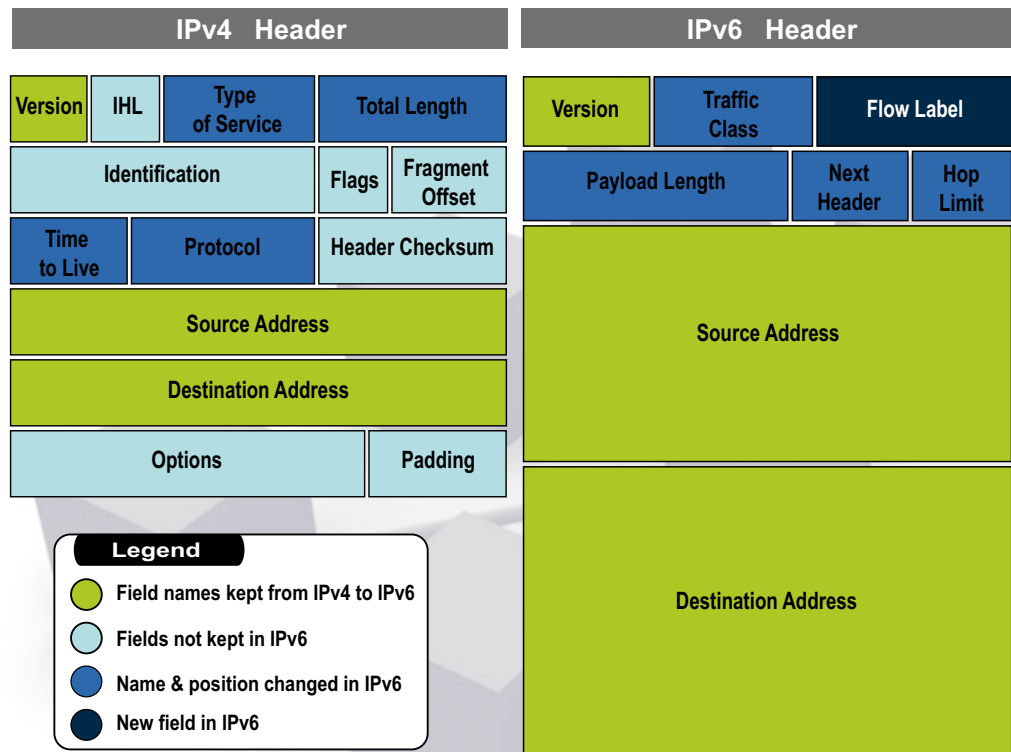
Tech Tip

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IPv4 vs IPv6 (part 1)

In many ways, the IPv6 is not more than a conservative enhancement of the IPv4. Most Transport -and Application- protocols need very little or no changes to work over IPv6; the exceptions are the application protocols that integrate network layer addresses like FTP or NTP.

The IPv6 specifies a new packet format, designed to minimize the packet header processing. Due to IPv4 Packets and IPv6 headers significant differences, both protocols are not interoperable.



Several differences		
IP address number of bits	32	128
Short naming method	no	Example: 0:0:0:0:FFFF:129:144:52:30 ::FFFF:129:144:52:38
Sub-Network Mask	Yes	No
How to ping	Ping xxx.xxx.xxx.xxx	Ping6
Addressing capacity	4300 x 10 ⁶	3.4 x 10 ³⁸
Format	Decimal	Hex
Loopback Address	127.0.0.1	0:0:0:0:0:0:0:1

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