IPv6 Cheat Sheet

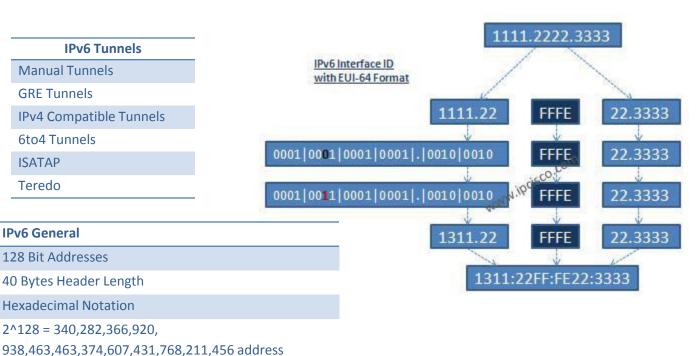


IPv6 Tunnels Manual Tunnels **GRF Tunnels IPv4 Compatible Tunnels** 6to4 Tunnels **ISATAP** Teredo **IPv6 General**

128 Bit Addresses

40 Bytes Header Length **Hexadecimal Notation**

2^128 = 340,282,366,920,



IPv6 Translation and Tunneling Mechanisms

Transmitting IPv6 Traffic over IPv4 Networks. Supports Manual only IPv6 traffic. 6to4 Tunneling Connecting IPv6 Networks over IPv4 Network. Encapsulating IPv6 packets over IPv4 Network. **6rd Tunneling** ISATAP IPCISCO Encapsulating and transmiting IPv6 packets over IPv4 Networks. Transmitting IPv6 Traffic over IPv4 Networks. Supports GRE multiple protocols. Encapsulating IPv6 packets inside IPv4 packets across Teredo these IPv4-based NAT devices and IPv4 Network. Devices are configured with both an IPv4 address and an **Dual Stack** IPv6 address.

Traffic Class (8) Flow Label (20) Version(4) Hop Limit (8) Next Header (8) Payload Length (16) Source Address (128) Destination Address (128) **New Fields** Name and location changed with ipv6 Fields kept in from IPv4 to IPv6

IPV6 HEADER

IPv6 Anycast Address

IPv6 Cheat Sheet

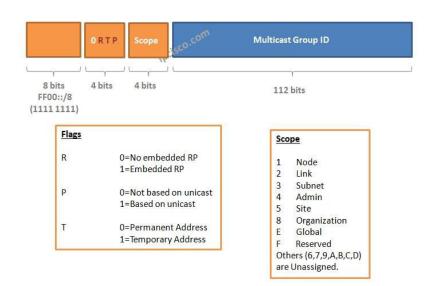
Link-Local Unicast IPv6 Address

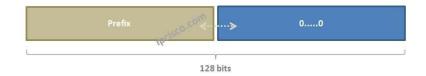


Unique-Local Unicast IPv6 Address



IPv6 Multicast Address





IPv6 Solicited-Node Multicast Address



Global Unicast IPv6 Address

