**IPv4** (Internet Protocol version 4)

IPv4 is the standard address format that lets all machine on the internet communicate with one another. IPv4 is written as a 32-bit strings of digits, and an IPv4 address is composed of four numbers, each between 0 and 255, and separated by periods. IPv4 standardized the way computers on the internet talk to one another.

**IPv6**(Internet Protocol version 6)

IPv6 is an updated standard for identifying computers on the internet. Like IPv4, it gives every device a unique identifier, but one that has been adjusted to accommodate the increasing number of computers connected to the internet today. IPv6 is written as a 128-bit hexadecimal string of digits.

IPv6 streamlines transfers by making any two address directly accessible to each other again. IPv6 is built to make data move more efficiently.

The difference between IPv4 and IPv6 is that IPv6addresses are longer and formatted differently, so that are more possible unique IPv6 address configurations.