IPv6

Protocol of the Future

Advantages

- Larger Address Space
- More Efficient Routing
- New Configuration Options
- Integrated Security
- Standard QoS Support

Larger Address Space

- 128 Bit Addresses
- 3.4 * 10³⁸
- More Levels of Subnetting
- © Can use IPv4 and IPv6

More Efficient Routing

- Not Behind NAT or Firewall
- Much Smaller Routing Tables
- Direct Connections

New Configuration Options

- Can Still Manually Configure
- Link Local Addressing
- Extensible Headers

Integrated Security

- IPSec Completely Integrated
- Not OS Dependent

Standard QoS Support

- Routers Can Identify Flow
- QoS Included in Packet Header
- @ QoS + IPSec