IPv6 FAQ

Eric Van Tol - 2025-06-16 - Comments (0) - Connectivity

What is IPv6?

IPv6 is an upgraded version of the IP protocol on which the internet runs.

Why is it important?

IPv6 is important because the available pool of IPv4 addresses has been depleted as of February 2011. IPv6 significantly expands the available internet addresses from 4 billion addresses to 2^128 addresses (over 340 undecillion, or 340,282,366,920,938,463,463,374,607,431,768,211,456 addresses).

Does Atlantech have an IPv4 shortage?

No. We can still assign IPv4 addresses for the foreseeable future. However, we fully encourage customers to begin learning about and deploying IPv6 as soon as possible.

Is my network compatible with IPv6?

All modern day workstation and server operating systems are compatible with IPv6. Windows Vista/7 and later, and MacOS X and later, are fully IPv6 capable "out of the box". Windows XP is compatible with the enabling of the IPv6 protocol. Linux has been compatible with IPv6 as of kernel version 2.5. Many newer enterprise level routers are IPv6 capable, but a firmware upgrade may be necessary. Please consult with Atlantech Online Technical Support to see if your router is compatible.

Is my Atlantech Online service IPv6 capable?

Atlantech first deployed IPv6 throughout its core network and to TDM-based customers in 2007. As of Q2 2015, most services in Atlantech's network are "dual-stack" capable. Please email support@atlantech.net to inquire whether your service can be enabled with IPv6 connectivity.

How can I get IPv6?

Please contact Atlantech Online Technical Support if you have questions about how to connect to Atlantech through IPv6. There are a variety of options available, depending on your service.

Is there an additional cost for IPv6 services at Atlantech?

No. There may be a non-recurring cost involved only if your Atlantech managed or leased equipment is not compatible with IPv6 and you wish to deploy a "dual-stack" configuration. Please contact Atlantech Online Technical Support to see whether or not this applies to your service.

How many IPv6 addresses will I receive?

You will receive either a standard /64 subnet for your LAN or a /64 and /48 subnet for your WAN and LAN, respectively, depending on the service that you have. The /48 subnet will allow you subnet further to over 65,000 /64 LAN subnets.

Can I multihome with IPv6?

If you have an Atlantech-assigned IPv6 subnet, you will be able to multihome to Atlantech Online only. If your company has been directly allocated a block from an RIR such as the American Registry of Internet Numbers (ARIN), multihoming is possible.

Why can't I multihome to another ISP with an Atlantech Online assigned IPv6 network?

You will be able to multihome to Atlantech Online only, if you have an Atlantech assigned IPv6 subnet. If your company has been directly allocated a block from an RIR such as the American Registry of Internet Numbers (ARIN), multihoming is possible.

How can I find out more about IPv6?

Here are some additional resources that you can use to learn more about IPv6:

- ARIN IPv6 Wiki
- Preparing an IPv6 Addressing Plan
- IPv6 for Enterprise Networks
- Running IPv6
- IPv6 Forum

- Tags
- ipv6