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IPv6 Deployment at Enterprises

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What is the problem?

- Many (most!) “brick-and-mortar” enterprises (managed private networks) have not deployed IPv6
- Nor do they have any plans to do so!
- This creates a problem for the Internet as a whole

What was our goal?

- Raise implementation priority of IPv6 at enterprises
- Demystify of IPv6 for enterprise technicians
- Provide technical training for IPv6 for senior enterprise technicians

What did we do?

- Gave following webinars:
 - Introduction to IPv6,
 - Neighbor Discovery,
 - IPv6 Addressing,
 - IPv6 Address Planning,
 - IPv6 Transition Mechanisms,
 - DHCPv6, and
 - Introduction to IPv6 Security

<https://industry.netcouncil.org/past-webinars>

- Published article in Enterprise Executive magazine, “Impact on Enterprises of the IPv6-only Direction of the Federal Government”

<https://mydigitalpublication.com/publication/?m=23209&i=664279&p=38&ver=html5>

How did it work out?

- Quite a few attendees. Overall estimate: 700 or so
- Sample statistics for "Introduction to IPv6"
 - Total: 650 attendees
 - ARIN-518, APNIC-55, RIPE-45, AFRINIC-21, LACNIC-11
 - Enterprises: federal and state government, military, business. One from one of our Native American Nations

Testimonial

From a senior technician at a large US federal government agency

"Thank you for the excellent introduction to IPv6. As someone who had little background aside from cursory overview, I found the first half of the class very informative.

The reference of both wireshark captures, as well as real life example of ipconfig output helps to match theory to practice. I also enjoyed your candid thought concerning some of the common controversies such as privacy and security, both of which very important to both public and private organizations implementation.

I look forward to attend the next webinar that may cover more past and future. As always, anyone can find a book and attend a training to learn the technical aspect, but it's real-world considerations and examples that help put these in perspective."

What is next?

- Working with partner in Asia Pacific region (India Internet Engineering society – IIESOC.in) to extend work to APAC
- Grant received from ISIF (APNIC Foundation)
- Hope to continue work with ARIN on IPv6 application conversion, IPv6 security and IPv6 troubleshooting training



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