Moving to IPv6-Mostly

Because it’s time…

“You might know me from such presentations as…”

Moving from .1X to WPA2/3

What is this IPv6-Mostly thing anyway?

- **Clients that can operate without an IPv4 address signal this using DHCPv4 option 108 (inc. Android, iOS, Mac)**
  - **Windows should soon…**
- **If the network supports NAT64, it replies with DHCP 108 and the client disables native IPv4**
- **Clients use CLAT and NAT64 to reach IPv4-only locations, and native IPv6 for v6 capable sites**

What is this IPv6-Mostly thing anyway?

- **Clients which don’t support IPv6 only don’t include DHCP 108, and get an IPv4 address (just like they do now)**
- **We would also like to move the IPv4 space into RFC1918 and provide NAT44**

If change scares you….

- **… it scares me too!**
- **We will continue providing an IPv4 network with public IPv4 addresses…**

Feedback…

Tell us why this is a bad idea….

Backup / Reference…

Links and such…

- RFC8925 - "IPv6-Only Preferred Option for DHCPv4"
- draft-link-v6ops-6mops - "IPv6-Mostly Networks: Deployment and Operations Considerations"

- Others who've already done this:
  - RIPE
  - APRICOT
  - Some large enterprise networks…