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...