

IPv6 and the seven stages of denial

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Observations

- IPv6 has seen little deployment for various reasons such as
 - It's not IPv4
 - Lack of need, cost, lack of understanding/awareness, lack of technology support
 - Waiting for normal upgrade cycles
- This doesn't fundamentally change the need for it
- Different organizations in different regions are in different phases

What happened

- Today's Internet is not the Internet of 1994
 - Diverse, ubiquitous, and with different business models
- Explains the partial lack of technical support or mismatch of needs
 - This is today a well understood and worked on problem
- IPv6 helped us understand how IPv4 works, and what the components are
 - So that we could go back and adjust IPv6 accordingly

What is happening

- People ARE deploying, albeit slowly
 - Perhaps not in customer focusing cases just yet
- Operational experience is needed, and tools needs to be debugged and worked up
 - To some extent we are where IPv4 was in 1994 (pre-dot-com)
- New service and products are being thought up and developed based on end-end reach

What more must be done?

- The gap between IPv4 “islands” and IPv6 “islands” needs to be bridged
 - Will help more content providers take the first steps
- Products for end-user connectivity (DSL modems/routers) needs to become available
 - Core networks are already capable of IPv6
- You should not have to care about the technology!