When the Internet sneezes, the World Wide Web catches a cold...

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W3C Technical Plenary week, Media Breakfast
The Internet Society

- Founded in 1992
- A global community with
  - 100 organization members
  - over 90 chapters around the world
  - tens of thousands individual members
- Focused on promoting and sustaining the Internet as a platform for innovation and economic development
- One area of focus is promoting the continued health of the Internet's technical architecture
- The Internet Society is part of the overall “Internet Ecosystem” of organizations building standards, managing resources, collaborating.
The Internet sneeze...

• Running out of IPv4 addresses
  • last allocation from Internet Assigned Number Authority (IANA) – predicted for October 2011
  • last allocation to ISP (anywhere in the world) predicted for February 2013
• Lots of IPv6 addresses
  • It’s not going to be an IPv6 Internet before the last IPv4 address is handed out
• Making do with the IPv4 addresses we have
  • More Network Address Translators (NATs)
  • NATs in the network (not at the edges)
The WWW cold

• IPAffinity breaks!
  • A recent roundtable of industry leaders we held included representatives from Google, Yahoo, Akamai, Netflix, and Comcast
  • Discussed impending impact on
    • geolocation, geoproximity
    • management of distribution of copyrighted materials
  • See: http://www.isoc.org/educpillar/resources/docs/ipv6_200905.pdf

• Multiple open streams breaks!
  • Sharing addresses => fewer ports => AJAX apps have troubles
  • Poor performance of web pages, eg Google maps
Have a tissue?

- Major ISPs and content providers are including IPv6 in their current deployment plans
- Wireless broadband (LTE) has IPv6 “baked in”
- Large countries, new economies are embracing IPv6 (India, China)
- IPv6 is the way forward, but we’re in for a bumpy transition

- [http://isoc.org/ipv6](http://isoc.org/ipv6)