



# Nokia Siemens Networks

# **Nokia Siemens Networks and IPv6**

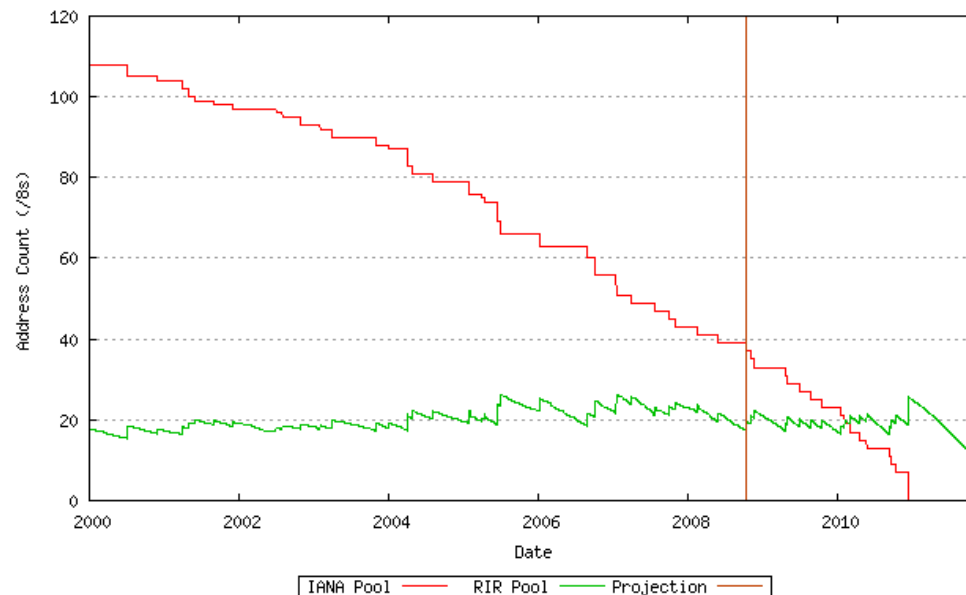
**Jonne Soininen**

**Ficora IPv6 Työpaja**

**15.10.2008**

# Projections

- IANA's pool is decreasing in increasing rate
- Geoff Huston projections as of 15-Oct-2008:
  - IANA IPv4 Address Pool Exhaustion: 9-Dec-2010 (Red)
  - RIR IPv4 Address Pool Exhaustion: 29-Nov-2011 (Green)
  - (<http://www.potaroo.net/tools/ipv4/>)



# IPv6 at Nokia Siemens Networks

- Importance of IPv6 understood early
  - Invested in IPv6 for a long time
  - IPv6 is seen as inevitable and useful for the growth of the industry
- Active standardization effort through the years
  - IPv6 protocol standardization in the IETF
  - Support for IPv6 in 3GPP , WiMAX Forum
  - Etc.
- Support for IPv6 in products

# Nokia Siemens Networks IPv6 support

- Mobile Access
  - Supporting End-user IPv6 service (IPv6 PDP Context)
- Broadband access
  - Supporting IPv6 to the end-user
    - Using PPPoE or 1:1 VLAN
- IP Multimedia Subsystem
  - Dual-Stack supported in Nokia Siemens Networks IMS solution
- **Going forward:** Support for IPv6 is enhanced and extended to support all applicable products

# Nokia Siemens Networks assumptions on IPv6

- IPv6 is needed first for the end-user
- IMS one of the driving use cases
- Non user addressed interfaces are secondary
- If operator has IPv4 addresses they will have dual-stack environment



# Nokia Siemens Networks