

# **v6ops**

## **v6ops working group**

### **IETF-60 San Diego**

**Monday & Thursday 2nd and 5th Aug 2004**

**Co-chairs:**

**Pekka Savola <pekkas@netcore.fi>**

**Jonne Soininen <jonne.soininen@nokia.com>**

# Agenda for 1st session

Agenda: Monday 2nd Aug, 1930-2200

- (NOTE: more verbose agenda on the web!)
- Introduction and agenda bashing - 5 mins, Chairs/Soininen
- Document status - 15 mins, Chairs/Savola
- VLAN Usage for IPv6 Transition - 5 mins, Chown
- Enterprise solution case study - 20 mins, Chown
- Assisted Tunneling Requirements - 15 mins, Durand
- Moving forward with Mechanisms - 45 mins, Chairs/ADs
- Secure IPv6 Tunneling - 10 mins, Graveman
- IPv6 Security Overview - 10 mins, Savola
- Tunnel-endpoint discovery - 10 mins, Palet
- What to do with NAT-PT applicability statement - 5 mins, Chairs/Savola

# Agenda 2nd session

Agenda: Thursday 5th Aug 0900-1130

- (NOTE: more verbose agenda on the web!)
- IPv6 replacement for NAT boxes - 10 mins, van de Welde?
- Moving forward, take two - 60 mins, Chairs/ADs
- Transition mechanisms update - 5 mins, Chairs/Savola
- IPv6 Mobility Scenarios - 10 mins, Williams
- "Auto-transition" - 10 mins, Palet
- Distributed v6 security reqs etc. - 10 mins, Palet
- Advanced L3 IPv6 Exchange Model - 10 mins, Palet
- Measurement of misbehaving DNS servers - 5 mins, Savola

# WG Status - progress (1/2)

## WG Status - progress (1/2)

- What have we achieved with WG items since IETF59?
  - 8 IPv4 survey documents published as RFCs
  - Unmanaged scenarios published as RFC
  - Unmanaged analysis in RFC-ed queue
  - A lot of documents basically done (past IESG evaluation)
    - ▷ 3GPP analysis
    - ▷ ISP scenarios & analysis
    - ▷ 6to4 security analysis
    - ▷ Application transition
    - ▷ Transmech-bis
    - ▷ Renumbering procedure
  - Enterprise scenarios sent to the IESG
  - IPv6-on-by-default issues docs sent to the IESG
    - ▷ But require waiting for "official fixes" to be worked out
  - Assisted tunneling requirements is at WG LC

# WG Status - progress (2/2)

## WG Status - progress since IETF59

- What have we achieved with consensus?
  - WG Consensus to go for PS for Teredo & 6PE
    - Routing ADs have agreed to advance 6PE
    - Internet ADs have agreed to advance Teredo
  - Lots of good discussion about ISATAP/tunnel-server model
- What has been achieved with non-WG items?
  - A simplified ISATAP spec is in RFC-editor's queue
  - Draft on secure v6-in-v4 is out
  - Draft on ways to replace NATs/private addressing in progress
  - Draft on tunnel-endpoint discovery etc. is out & revised
  - Draft on enterprise solutions case study is out
  - Etc.
- What do we still have to achieve?
  - Decision(s) on ISATAP, assisted tunneling, etc.
  - Decision(s) (by IESG) where to continue the work (new WG?)
  - Enterprise analysis doc?

○ Continue the operational aspects

# Document Status: RFCs

## Document Status: RFCs

- Trans-mech
  - PS, revision almost done.
- NAT-PT and SIIT
  - Would require applicability statement. To be discussed.
- 6TO4 and 6to4 Anycast
  - The security analysis mostly done
- 8 Survey of IPv4 Addresses -documents
- 3GPP and Unmanaged scenarios

# Document Status: WG documents (1/2)

## Document Status: WG documents (1/2)

- In RFC editor's queue
  - Unmanaged analysis
- Done, waiting for AD to send to RFC editor
  - 6to4 Security Analysis
  - Application Transition
  - ISP Scenarios & Analysis
- Almost Done, past IESG evaluation
  - 3GPP analysis
  - Transmech-bis
  - Renumbering Procedures

# Document Status: WG documents (2/2)

## Document Status: WG documents (2/2)

- Publication requested from the AD
  - Enterprise scenarios
- Still requiring more work
  - IPv6-on-default & On-link by default
    - ▷ IESG comment: must not be published until the fixes have been officially ratified
- At WG Last Call
  - Assisted Tunneling Requirements
- Not started yet
  - Enterprise analysis; a case study to be presented though.
- Future work items?
  - Secure IPv6 tunneling ("IPv6-in-IPv4 IPsec")
  - IPv6 Transition Security Overview & other work