

draft-savola-v6ops-security-overview

IPv6 Transition/Co-existence Security Considerations

draft-savola-v6ops-security-overview-02.txt

Pekka Savola, CSC/FUNET

Overview

Overview

- An overview of IPv6/transition issues
 - Specific discussion referred to separate documents
- Tries to show a "big picture" of security w/ IPv6
 - Issues due to IPv6 protocol
 - ▷ Protocol itself
 - ▷ IPv4-mapped IPv6 addresses
 - ▷ Increased end-to-end transparency
 - Issues due to transition mechanisms
 - ▷ Transition mechanism -specific issues
 - ▷ Automatic tunneling and relays
 - ▷ Tunneling breaking security assumptions
 - Issues due to IPv6 deployment
 - ▷ Insecure service piloting
 - ▷ Enabling IPv6 reduces usability ("onbydefault" issues)
 - ▷ Operational issues when enabling IPv6

Changes

Changes since -00

- -01 never was (expired, the secretariat glitched)
- Reorganize issues to three categories
 - IPv6 protocol, transition mechanisms, deployment
- Update the issues a bit
 - The -00 had expired..
- Add extra discussion in appendix
 - Considerations wrt. probing/mapping IPv6 addresses
 - Considerations wrt. privacy
 - Exposing multiple users
 - Exposing your 1000000\$ equipment's MAC address

Now what?

Now what?

Status

- Two v6ops analysis docs refer to this for generic security advice
 - Something like this needs to be published in one way or the other

The way I personally see it..

- We need a document we can give to read on v6 security
- We shouldn't hurry publishing until it's reasonably complete
- Goal would be Informational RFC

Take as WG document?

- If yes..
 - I'd prefer to give this to someone else to (co-)author and edit
 - Volunteers, contact me..