

IETF IPv6 Enterprise Site Renumbering WG (6renum)

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Problem and formation

- Renumbering considered hard/expensive
 - Leads to a desire for PI address space
- PI doesn't remove need for site to renumber
 - Internal triggers – network reorganisation
- WG formed after initial BoF at IETF80
 - BoF showed the huge scope of the problem
 - WG formation required tightly focused charter
 - First meeting at IETF81, co-chair Wes George

Previous work

- RFC 4192
 - Procedures for Renumbering an IPv6 Network without a flag day
- RFC 5887
 - Renumbering still needs work
- draft-chown-v6ops-renumber-thinkabout-05
 - Older (long!) draft, some used in RFC 5887
- RFC 2894
 - Router Renumbering for IPv6

Charter

- Included
 - IPv6 enterprise scenarios, BCPs, tools, etc
 - Gap analysis (all issues)
- Excluded
 - IPv4
 - SOHO
 - ISP
 - Renumbering avoidance

Enterprise text

- Initial draft:
 - draft-jiang-6renum-enterprise-00
- Triggers (external and internal)
- Approaching by considering three views
 - Network design
 - Preparation for renumbering
 - During renumbering
- Address management tools

Gap analysis text

- Initial draft
 - draft-liu-6renum-gap-analysis-01
- Many areas, including
 - Protocols, policies and procedures
 - Managing addresses and prefixes
 - Management tools
 - Renumbering event management
- Not necessarily all solvable

Need operator feedback

- 6renum is focused on enterprises
 - But many represented within UKNOF
 - And all enterprises have a relationship to ISP
- What would be your recommendations?
- What are the key issues?
- Would you rather try to avoid renumbering?