22 July 2025

Madrid

IETF 123 6MAN WG

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Internet Engineering Task Force

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- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
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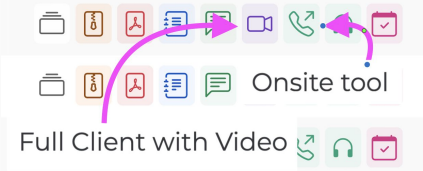

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6man Administrivia

- Jabber Room, Zulip
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- Meetecho Full Client:
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- Minutes:
  https://notes.ietf.org/notes-ietf-123-6man
  Minutes taker: Yao Liu
  Jabber Scribe RFC7649: N/A
- Presentations:
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IETF-IPv6-Mostly

- IETF SSID is running **ipv6-mostly** by default
  - It implements the RFC 8925 "IPv6-Only Preferred Option", which still supports IPv4 when needed via translation mechanisms. Devices which do not support RFC 8925 still receive an IPv4 address from DHCPv4, while IPv6-only capable devices operate in IPv6-only mode.
    - Apple (iOS & MacOS), Android and ChromeOS devices are IPv6-only
    - MS Windows and most Linux devices obtain IPv4

- This is the universal deployment of IPv6!

Agenda

Introduction:

- **Introduction, Agenda Review, and Document Status**, Chairs, 15 min.
- **IPv6 Hackathon Reports**, TBD, 30 min.

Working Group Drafts:

- **IPv6 Node Requirements**, draft-ietf-6man-rfc8504-bis , Tim Winters, 30 min.
- **Internet Control Message Protocol (ICMPv6) Reflection**, draft-ietf-6man-icmpv6-reflection, Ron Bonica, 15 min.

If Time Allows:

- **Off-link Prefixes vs. Neighbor Discovery Protocol**, Ondřej Caletka, 10 min.
- **Problem Statement with Aggregate Header Limit**, draft-liu-6man-aggregate-header-limit-problem , Yao Liu, 5 min.
- **ICMP Error Handling in SRv6 based VPN Networks**, draft-ali-6man-srv6-vpn-icmp-error-handling, Zafar Ali, 10 min.
- **IPv6 wants 802.11 Flexible Multicast Service**, David Lamparter, 5 min.

Document status (1 of 2)

Published RFCs:

- **RFC 9762 Using Router Advertisements to Signal the Availability of DHCPv6 Prefix Delegation to Clients**
- **RFC 9805 Deprecation of the IPv6 Router Alert Option for New Protocols**

RFC Editor Queue:

- draft-ietf-6man-snac-router-ra-flag , **SNAC Router Flag in ICMPv6 Router Advertisement Messages (MISSREF)**
- draft-ietf-6man-zone-ui **Entering IPv6 Zone Identifiers in User Interfaces (EDIT)**
- draft-ietf-6man-vpn-dest-opt , **The IPv6 VPN Service Destination Option (EDIT)**
- draft-ietf-6man-addr-assign-00 **Clarification of IPv6 Address Assignment Policy (AUTH48)**

Document status (2 of 2)

IESG Queue:

- draft-ietf-6man-eh-limits **Limits on Sending and Processing IPv6 Extension Headers (Five DISCUSS ballot positions)**
- draft-ietf-6man-rfc6724-update **Preference for IPv6 ULAs over IPv4 addresses in RFC6724 (Approved-Announcement to be sent)**

Reminder: Collaboration with other WGs

- Other IETF WGs’work might require 6MAN involvement

- 6MAN WG prefers to be involved after the other WG reaches some level of consensus, such as:
  - adoption call
  - confirmation from the WG chairs

IPv6 ND Yang Model

- In RTGWG there is a draft that defines a YANG model for IPv6 Neighbor Discovery
  - draft-ietf-rtgwg-ipv6-address-resolution-yang-01

- ADs thought this should be done in 6MAN

- This draft may be coming to 6MAN

A Few Words from our AD

- Erik Kline