Multiple Interfaces (MIF) WG

IETF 94, Yokohama

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Logistics

- Note taker and jabber scribe
- Meeting materials (Slides, Agenda, etc)
 - http://tools.ietf.org/wg/mif/agenda
- XMPP
 - mif@jabber.ietf.org
- Mailing list
 - mif@ietf.org
 - http://www.ietf.org/mailman/listinfo/mif

Agenda

- 1 Agenda bashing (Chairs, 3 min)
- 2 MIF document status review (Chairs, 10 min)
 - 2.1) draft-ietf-mif-happy-eyeballs-extension
 - 2.2) IPR disclosure on MPVD DHCP
- 3 MIF MPVD API requirements (Erik Kline, 45 min) draft-kline-mif-mpvd-api-reqs
- 4 MIF/Homenet discussion(Margaret, 45 min)
- 5 MIF WGLC status (Suresh, 30 min)
 - 5.1) draft-ietf-mif-mpvd-dhcp-support
 - 5.2) draft-ietf-mif-mpvd-ndp-support
 - 5.3) draft-ietf-mif-mpvd-id
- 6 MIF MPVD DNS Proposal (Markus, 10 min) draft-stenberg-mif-mpvd-dns

Happy Eyeballs Extension for Multiple Interfaces

draft-ietf-mif-happy-eyeballs-extension-07

IETF 94 - Yokohama, November 2015

G. Chen, C. Williams, D. Wing, A. Yourtchenko

Status

 This WG document is targeted to address the charter item #5

#5 Guidelines to applications, to provide an improved connectivity experience when the host is attached to multiple networks or there is a change in the set of networks the host is attached to, e.g., via MIF API usage.

- It was asked to update the uses cases according the discussion at IETF#90
 - Focus the usage on MIF wifi broken

MIF Happy Eyeballs: Value

- Complement MPVD architecture
 - Guidelines to non-MPVD-aware nodes

- Complement Happy Eyeballs(RFC6555)
 - Select fastest interface among v4, v6 and dual-stack connection, not limited to IPv4/IPv6 selection

MIF-HE: improve connectivity experience

- It is applicable for both PVD-aware nodes and regular nodes
- Connection judgment:

Step 1: Filter

Hard

- User preferences
 - No 3G while roaming
 - Only use free WiFi
- Operator policies
 - 3GPP ANDSF (Access Network Discovery &

Step 2: Sort

Soft

- PVD-ID
- DNS selection
 - MPVD, RFC6731
- Next Hop
 - MPVD, RFC4191
- Source address selection

What's Next?

Ready for WGLC?

Comments/Questions?

IPR on MPVD DHCP

- Huawei Technologies has made an IPR claim on draft-ietf-mif-mpvd-dhcp-support.
- (https://datatracker.ietf.org/ipr/2648/).
- RAND License to All Implementers with Possible Royalty/Fee