Multiple Interfaces (MIF) WG

IETF 94, Yokohama

Margaret Wasserman mrcullen42@gmail.com
Hui Deng denghui@chinamobile.com
Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of RFC 5378 and RFC 3979 (updated by RFC 4879).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult RFC 5378 and RFC 3979 for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.
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
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 use 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 & Selection Function)

  **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