

draft-ietf-pim-pfm-forwarding-  
enhancements-01

## PIM Flooding Mechanism and Source Discovery Enhancements

Ananya Gopal, [ananygop@cisco.com](mailto:ananygop@cisco.com)

Stig Venaas, [stig@cisco.com](mailto:stig@cisco.com)

Francesco Meo, [fran.meo@gmail.com](mailto:fran.meo@gmail.com)

# Overview

- New TLV type using Sub-TLVs to allow additional flow information
  - The old RFC 8364 TLV type 1 only has Source, Group and Holdtime.
- Forwarding enhancement to allow sending a single message to a neighbor when the neighbor is the only neighbor on multiple links.

# Changes

- Various editorial and other changes to make the draft more readable.
- Separate capabilities for New TLV support and Forwarding Optimization support.
  - This draft has a single hello option with two flags.
  - Two separate hello options might be easier. No need for a registry and hello option space is large.
- When forwarding message with new TLV out an interface with non-capable neighbor, convert to use old TLV (removing sub-TLVs)

# Next steps

- Implement this to see how it works in practice and make specification more precise.