draft-ietf-magma-msnip-06

Multicast Source Notification of Interest Protocol (MSNIP)

MSNIP overview

- Application signals to stack that it is a potential source
  - And wants to receive notification of (receiver) interest
- Host stack signals that it wants notifications to first hop router
- First hop router sends notification when there are receivers

- Host support needed
- Application support best, but can work without
- IGMP/MLD extensions
  - New IGMP messages
  - Host sends request to all igmp/mld routers address
  - Router unicasts notifications to the host

SSM support

- First hop router just learns source address from host
- When FHR has interest for an (S,G), host is notified

ASM support

- Proposing extension to support ASM

- Host signals (S,G) to FHR

- If pim-sm FHR can send null-registers for (S,G) to eventually learn of (S,G) interest
    - This means native forwarding path available before the application starts sending
    - No need for pim-sm data registers?

- If e.g. bidir, just pretend there is interest