

IGMP Proxying Update

Bill Fenner

fenner@research.att.com

Haixiang He

haixiang@nortelnetworks.com

Updates since idmr-igmp-proxy-01

- Topology Restrictions
 - Explicitly configured upstream/downstream
- Details on supporting senders
 - Forward everything towards root of tree
 - Routers at root must treat proxy sources as directly-connected
- SSM

Supporting Senders

- In order for senders to send from inside the proxy tree, all traffic is forwarded towards the root. The multicast router(s) connected to the wider multicast infrastructure should be configured to treat all systems inside the proxy tree as though they were directly connected -- e.g., for PIM-SM, these routers should Register-encapsulate traffic from new sources within the proxy tree just as they would directly-connected sources.

What sources to treat as local?

- This information is likely to be manually configured; *[this spec]* provides no way for the routers upstream of the proxy tree to know what networks are connected to the proxy tree. If the proxy topology is congruent with some routing topology, this information MAY be learned from the routing protocol running on the topology; e.g. a router may be configured to treat multicast packets from all prefixes learned from routing protocol X via interface Y as though they were from a directly connected system.