

DRIAD Update

draft-ietf-mboned-driad-amt-discovery

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Proof of Concept

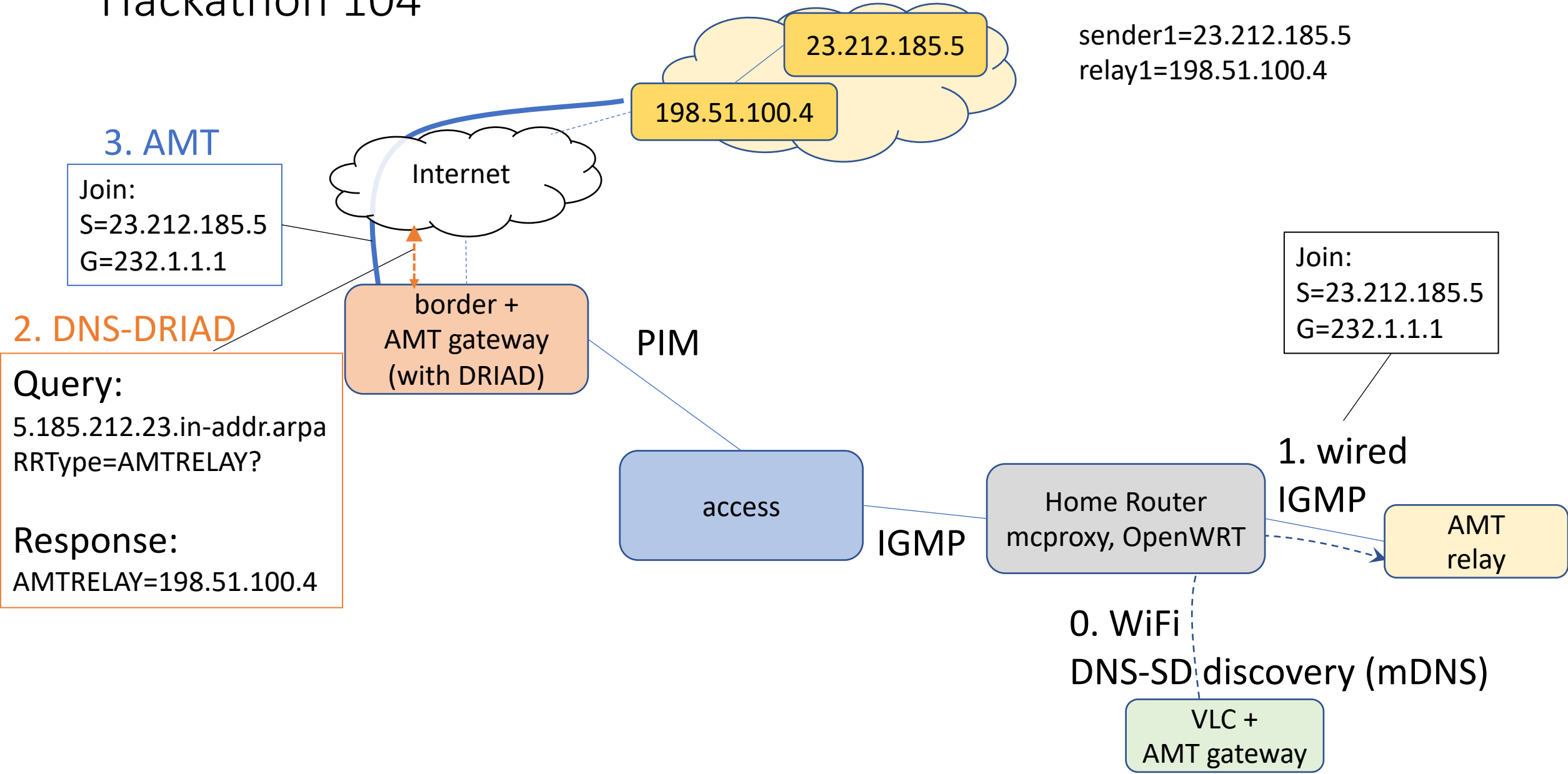
- Minor refinements
- Still running since November, reasonably stable
- Still pretty hacky (watching 'tcpdump -v pim')
- frr/pimd crash patch, upstreaming in progress

<https://github.com/GrumpyOldTroll/multicast-ingest-platform>

Draft Cleaned Up

- IANA number assigned
 - RRTYPE = 260
- Review comments, TBDs addressed

Hackathon 104



-02 DRIAD Draft (DNS-SD)

sender1=23.212.185.5
relay1=198.51.100.4

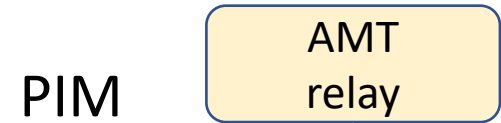
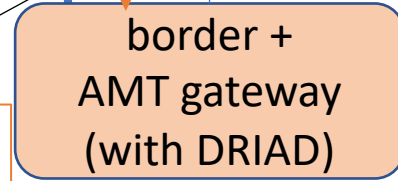
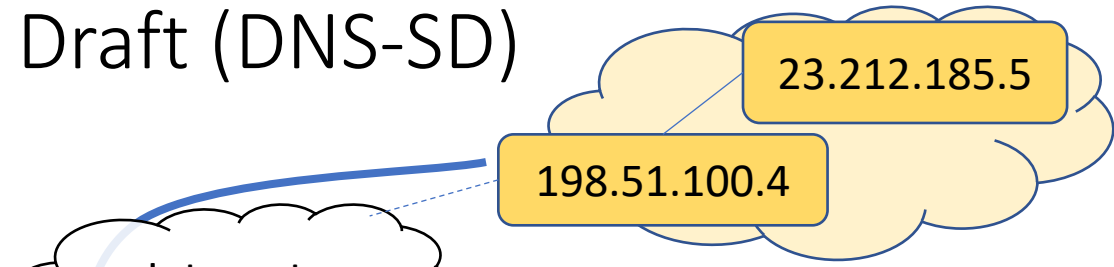
3. AMT

Join:
S=23.212.185.5
G=232.1.1.1

2. DNS-DRIAD

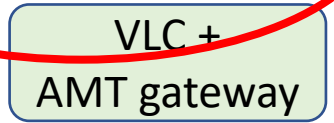
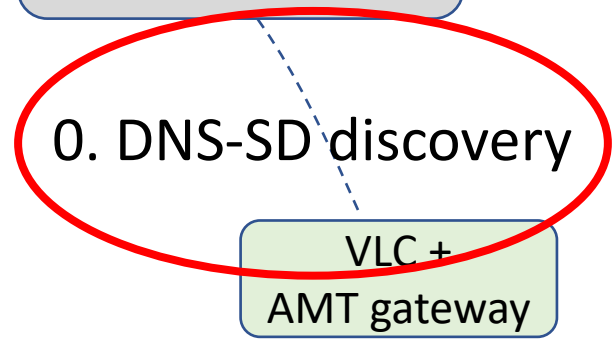
Query:
5.185.212.23.in-addr.arpa
RRType=AMTRELAY?

Response:
AMTRELAY=198.51.100.4

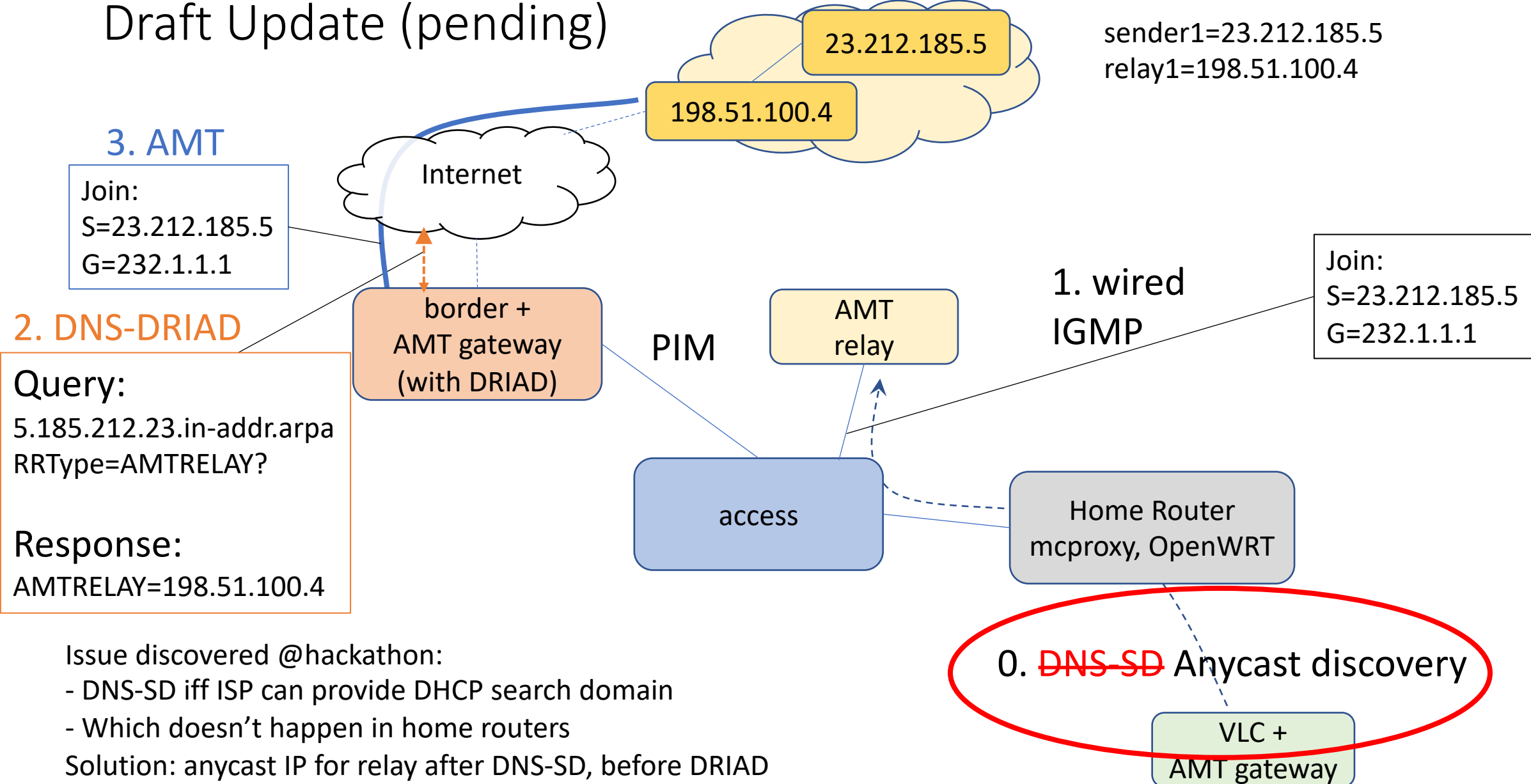


1. wired IGMP

Join:
S=23.212.185.5
G=232.1.1.1



Draft Update (pending)



sender1=23.212.185.5
relay1=198.51.100.4

Join:
S=23.212.185.5
G=232.1.1.1

Query:
5.185.212.23.in-addr.arpa
RRType=AMTRELAY?

Response:
AMTRELAY=198.51.100.4

Join:
S=23.212.185.5
G=232.1.1.1

Issue discovered @hackathon:
- DNS-SD iff ISP can provide DHCP search domain
- Which doesn't happen in home routers
Solution: anycast IP for relay after DNS-SD, before DRIAD
(instead of after DRIAD)

0. ~~DNS-SD~~ Anycast discovery

Next steps

- Fix anycast/DNS-SD ordering (section 2.4)
- Then wglc?