Multicast over WiFi via DNS-SD
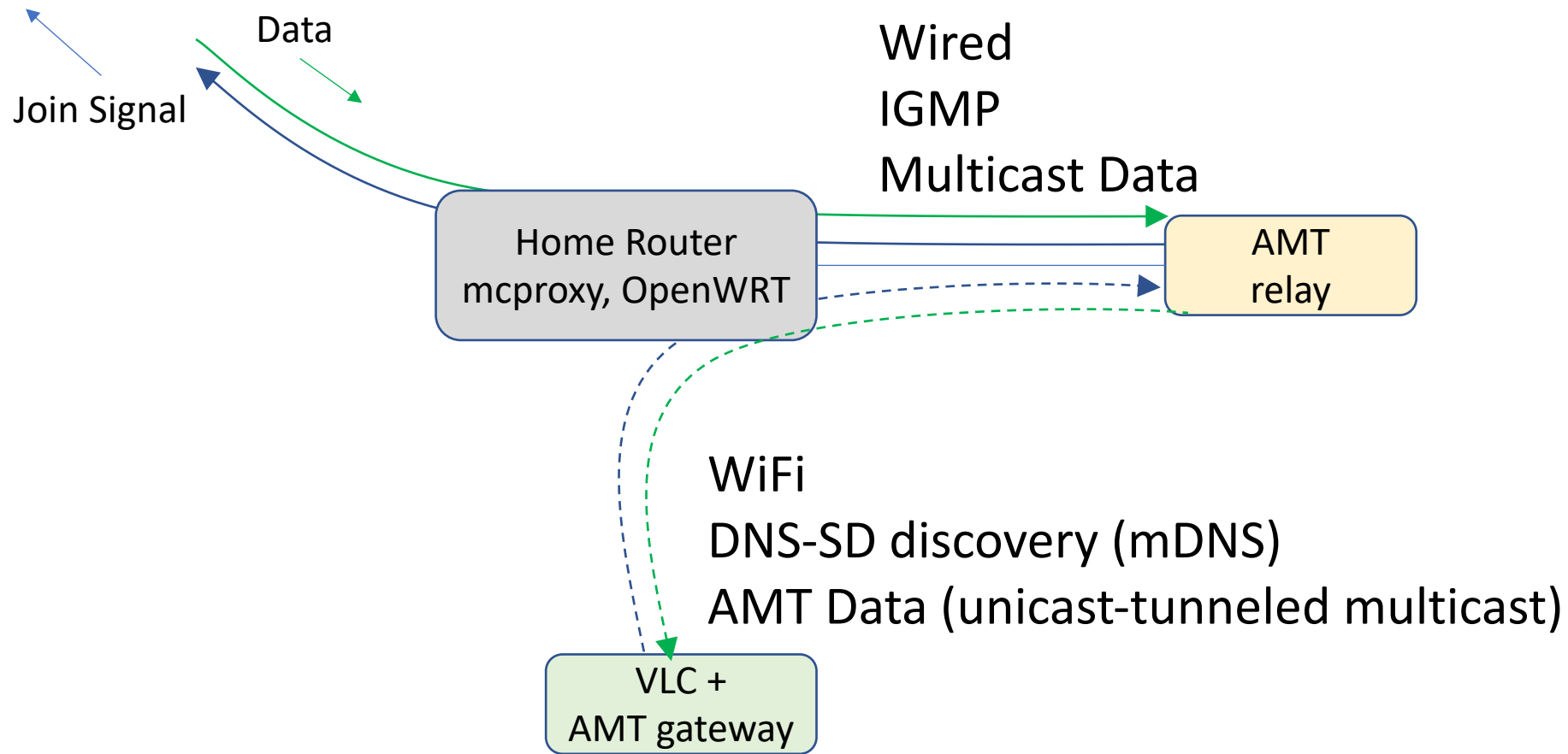
draft-ietf-mboned-driad-amt-discovery
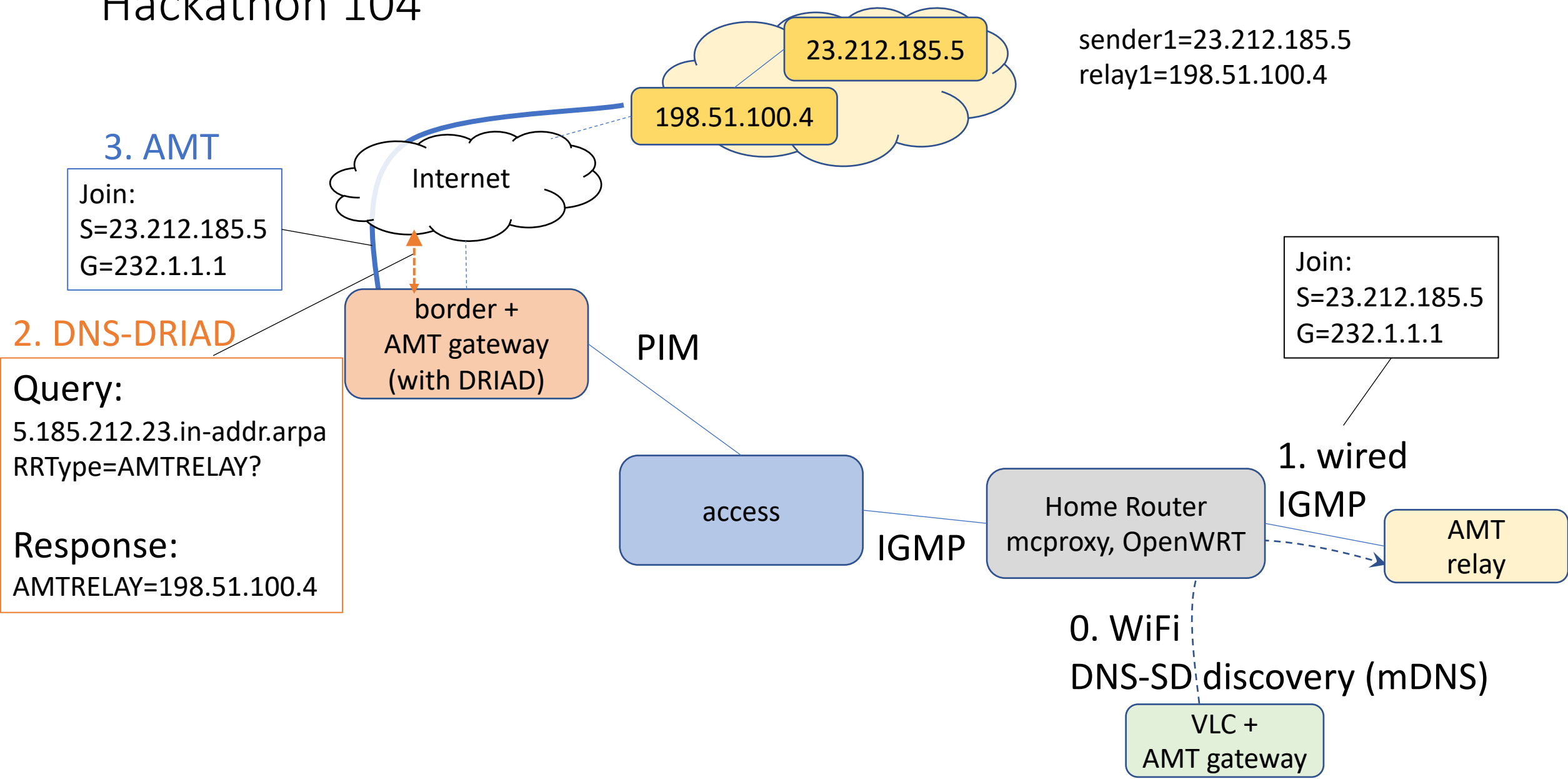
Jake Holland

Akamai

Hackathon 104

Hackathon 104

23.212.185.5

198.51.100.4

sender1=23.212.185.5
relay1=198.51.100.4

Internet

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

border +
AMT gateway
(with DRIAD)

PIM

Join:
S=23.212.185.5
G=232.1.1.1

access

IGMP

Home Router
mcproxy, OpenWRT

1. wired

IGMP

AMT
relay

0. WiFi

DNS-SD discovery (mDNS)

VLC +
AMT gateway

Relevant Docs

- RFC 6763: DNS Service Discovery
  - Thanks Stuart, Marc, & Ted. Works great!

- draft-ietf-mboned-driad-amt-discovery
  - Draft update learned during hackathon (order of discovery preference)

- draft-ietf-mboned-ieee802-mcast-problems-03
  - Proof of concept on one of the workarounds