

Multicast to the Browser

Status Update

Jake Holland
IETF 109 mboned

draft-ietf-mboned-dorms
draft-ietf-mboned-cbacc
draft-ietf-mboned-ambi
draft-jholland-mboned-mnat

Outline

- Updates since IETF 108
 - Trials in progress
 - Browser API implementation status
 - Doc Status & next steps (DORMS & CBACC)
- Multicast NAT (draft-jholland-mboned-mnat)
 - Why
 - What & How
 - Next steps?

Trials (8 ISP partners, + geo-relevant content owners)

- Running thru March 2021
- Lab testing
 - Set up [multicast-ingest-platform](#) (AMT ingest)
 - Attach to ISP's gear (include access+CPE, maybe core)
 - Software downloader + Video in browser clients
 - Answer Survey Questions
 - Eval CBACC, overall viability
- Slight possibility for a production test
- 2-3 need MNAT or equivalent (not yet started)
- Estimates of expected gains from log analysis

Browser Implementation

- So far still just Chromium
- Sync'd to [recent build](#)
- Trying to start Dev Trial this month
 - (they updated process since July, looks helpful)
- Much work still to do
 - Windows
 - AMBI (with DORMS)
 - Then aiming for origin trial/TAG review

DORMS Updates (draft-ietf-mboned-dorms)

- Known TBDs & feedback finished
 - Checked vs. YANG guidelines (RFC 8407)
 - Checked IANA section
- Actions for WG now:
 - Yang doctor review [request](#)
 - Early allocation IANA [request](#), service name “dorms”
 - Request cluster assignment? (with CBACC & AMBI)

CBACC Updates (draft-ietf-mboned-cbacc)

- Most TBDs finished
 - Refocused CB-mapping toward clearer explanation
 - Some still remain. 2 possible sections to add.
- Actions for WG now:
 - Request transport area review
 - (request yang doctor review? Or wait for DORMS?)

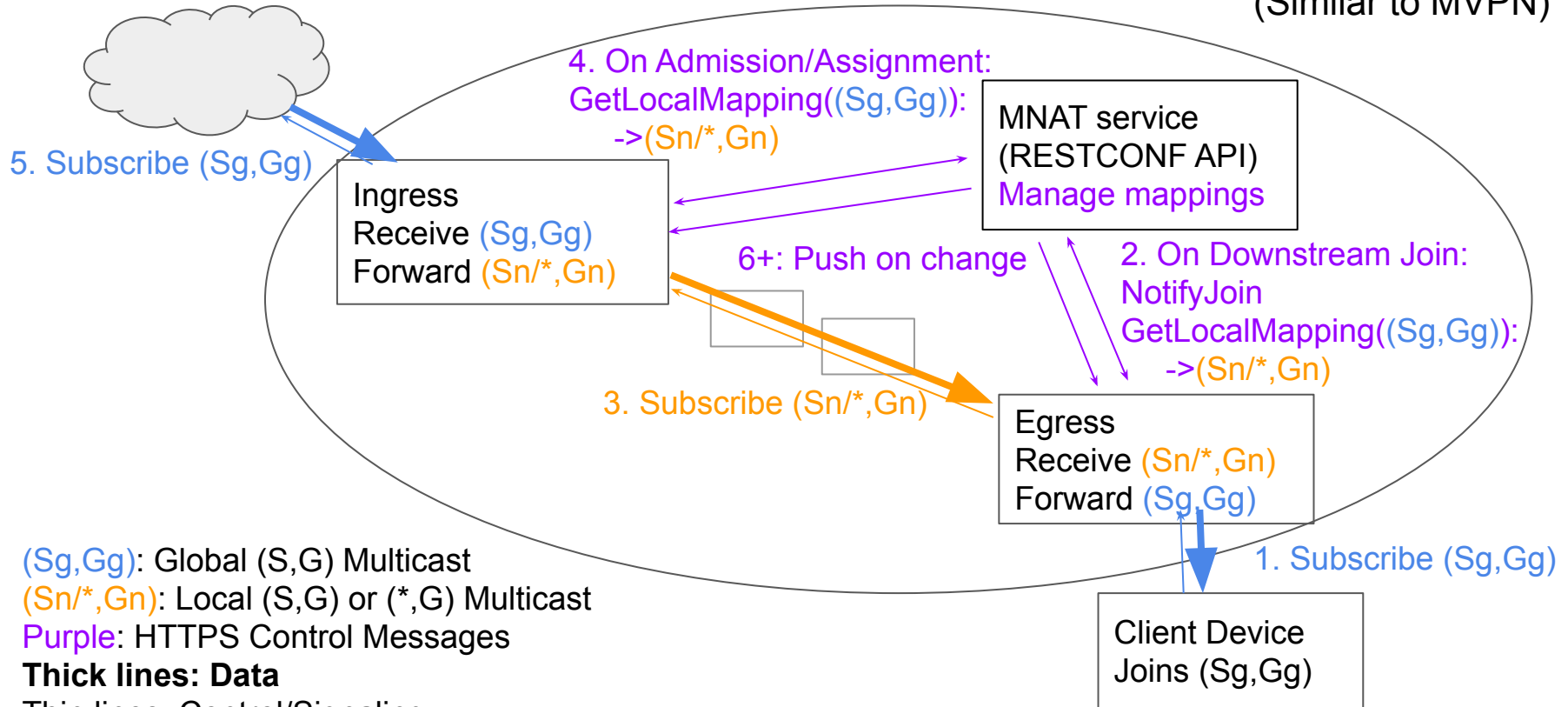
Multicast NAT: Why?

- Stoppers cited for multicast ingest deployment:
 - Source IP needs to be inside network (no RPF)
 - Static-only multicast routing (without PIM)
 - V6 networks for V4 traffic
 - IGMPv2 devices/ASM-only apps
 - With SSM source assignment in network, using 232

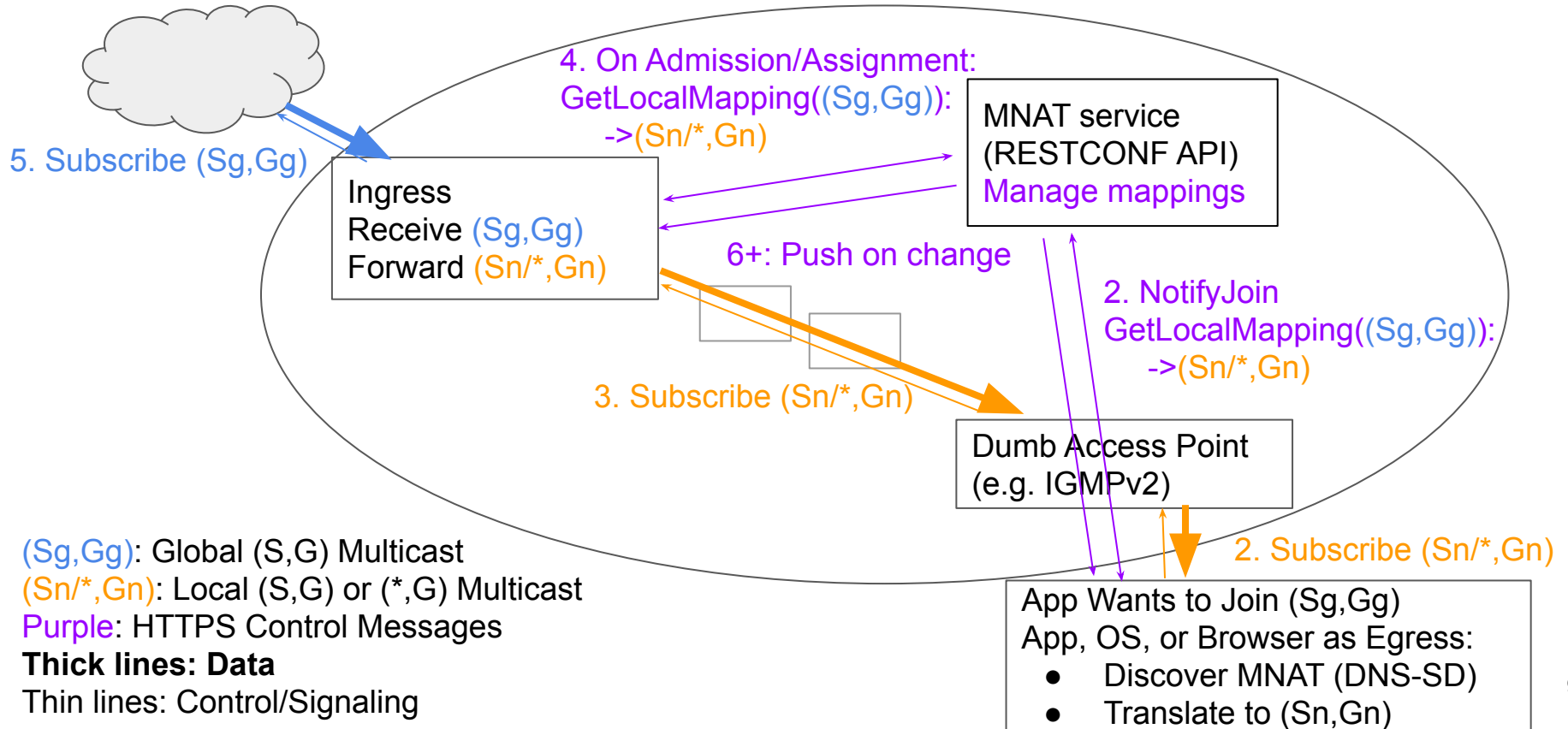
These problems all go away if you use different addresses inside a network. (Like with L3VPN)

MNAT: What & How (draft-jholland-mboned-mnat)

(Similar to MVPN)



HTTP API => No CPE Upgrade



MNAT next steps

- Early prototype running, more or less
 - Code to be posted shortly
 - MIT-licensed
 - Server=jetconf (CZ.nic RESTCONF framework)
 - ingress/egress=python agents, h2 to server
 - Different yang model than current draft, will update
- Suitable for mboned adoption?
 - In-scope?
 - Useful?