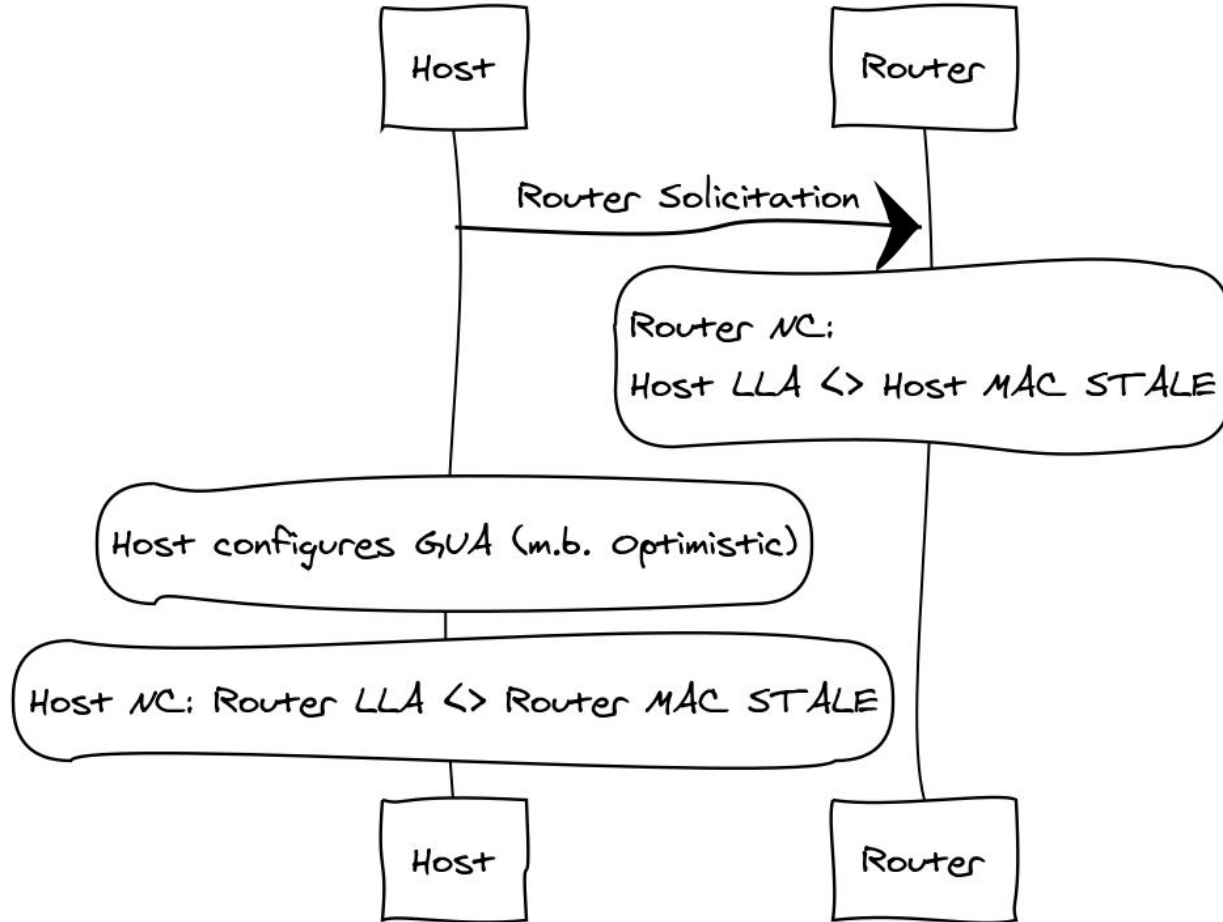


draft-ietf-v6ops-nd-cache-init-00

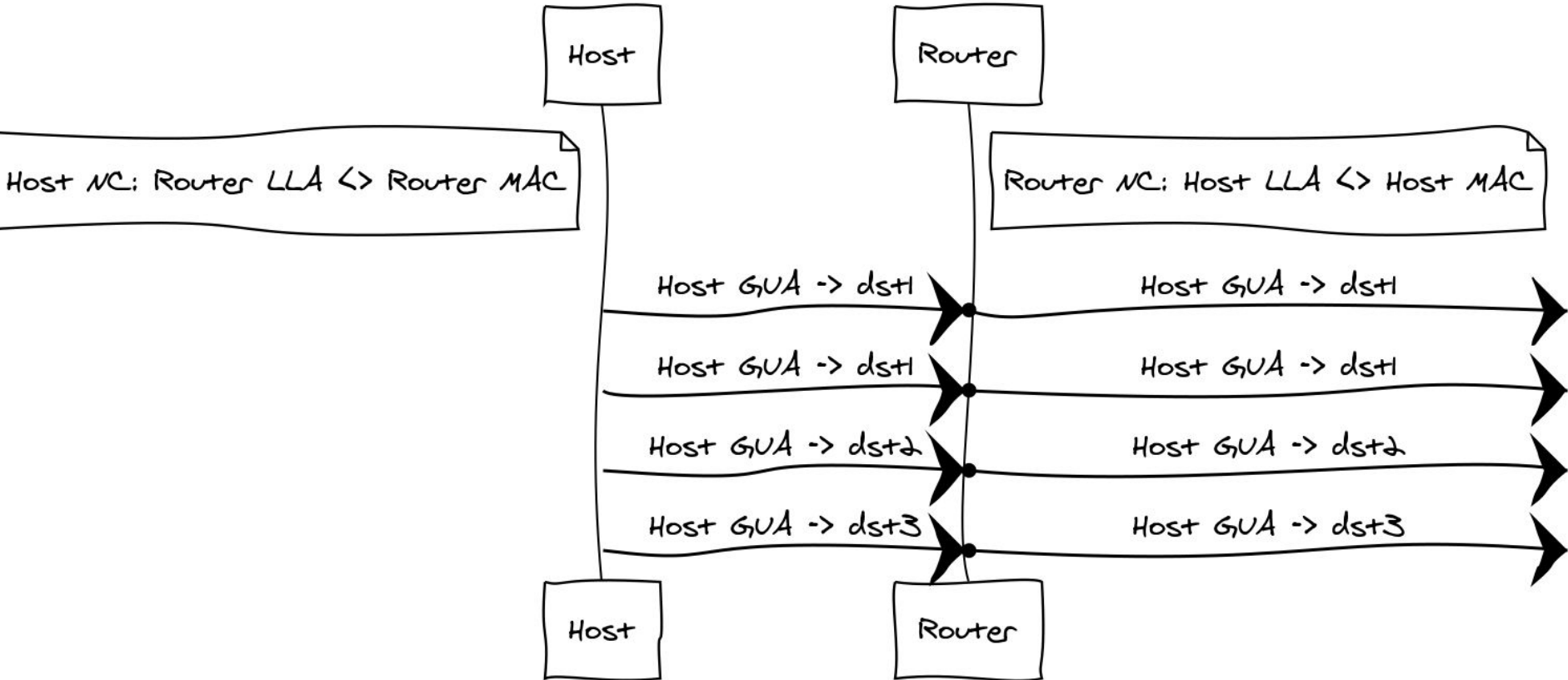
Jen Linkova
IETF106, Nov 2019

Recap sequence

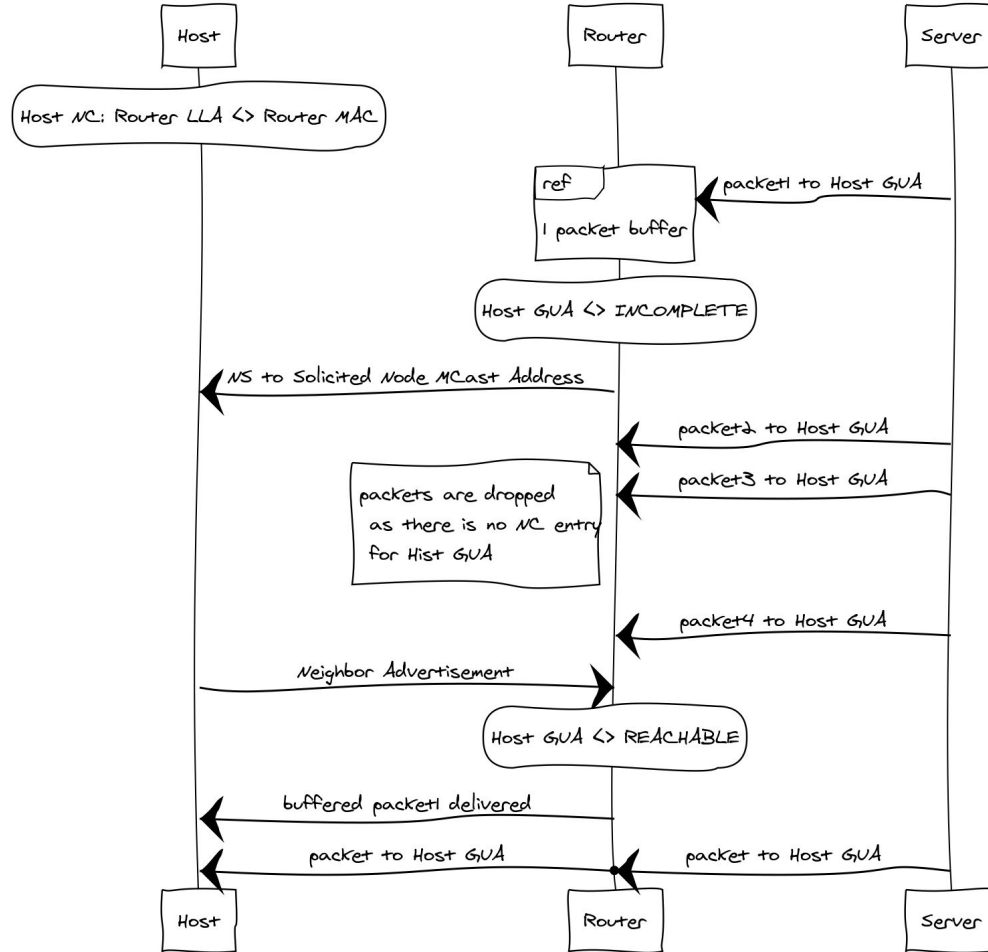
Host Joins the Network



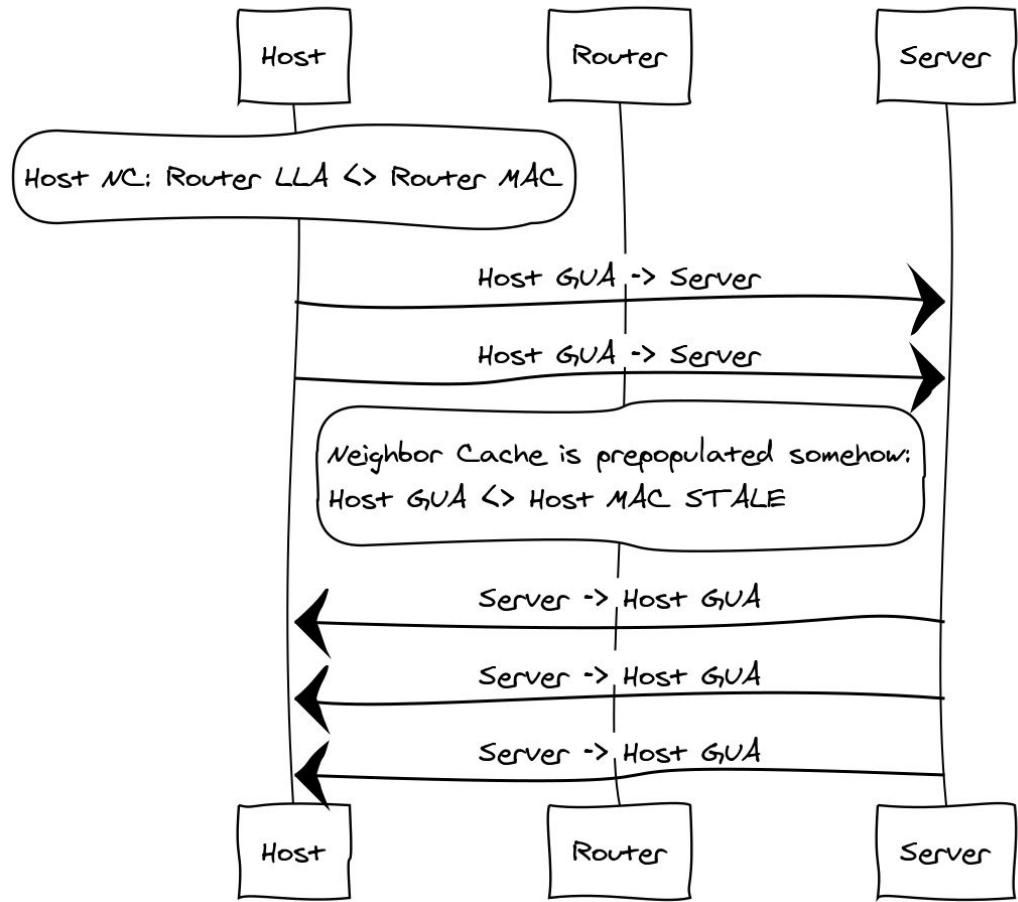
Host Starts Sending Traffic



And Here Comes the Return Traffic



In the Ideal World...



Dual-Stack Network

- Hosts sends Gratuitous ARP
- Routers get their cache updated
- Happy Eyeballs

Changes Since Adoption (IETF105)

Split one draft in two

- draft-ietf-v6ops-nd-cache-init-00
 - Operational problem
 - Various solution approaches
- draft-linkova-6man-grand-00
 - Proposed changes to RFC4861
 - Security considerations

Another solution approach added

- Routers glean from DAD , start resolution proactively
 - Pros: no host changes
 - Cons:
 - Routers have to receive/process all DAD traffic
 - Race condition (hosts would ignore NS for tentative address)

draft-linkova-6man-grand-00

- Proposed changes to ND
 - Hosts SHOULD send Gratuitous NAs when a new address is configured on the interface
 - Routers MAY entries upon receiving unsolicited NAs



SHOULD MAY be SHOULD?

Editorial Changes

- Sections moved to draft-linkova-6man-grand
 - Avoiding disruption
 - Security considerations

QUESTIONS?

COMMENTS?