#### Signal-less LISP Multicast

MBONED WG - Berlin IETF - July 2013

Dino Farinacci
Iispers.net

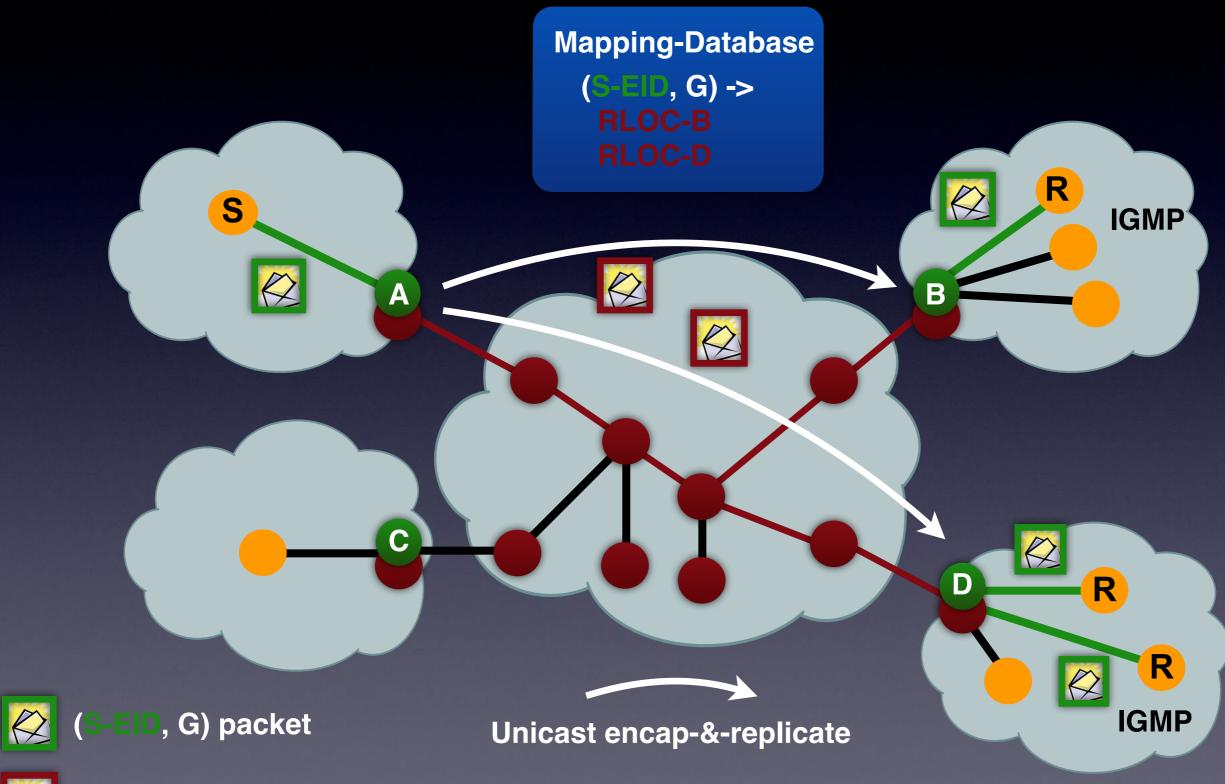
#### Problem Statement

- Can we get a multicast overlay to connect multicast distribution trees at LISP sites?
- Can we do it with zero xTR signaling?

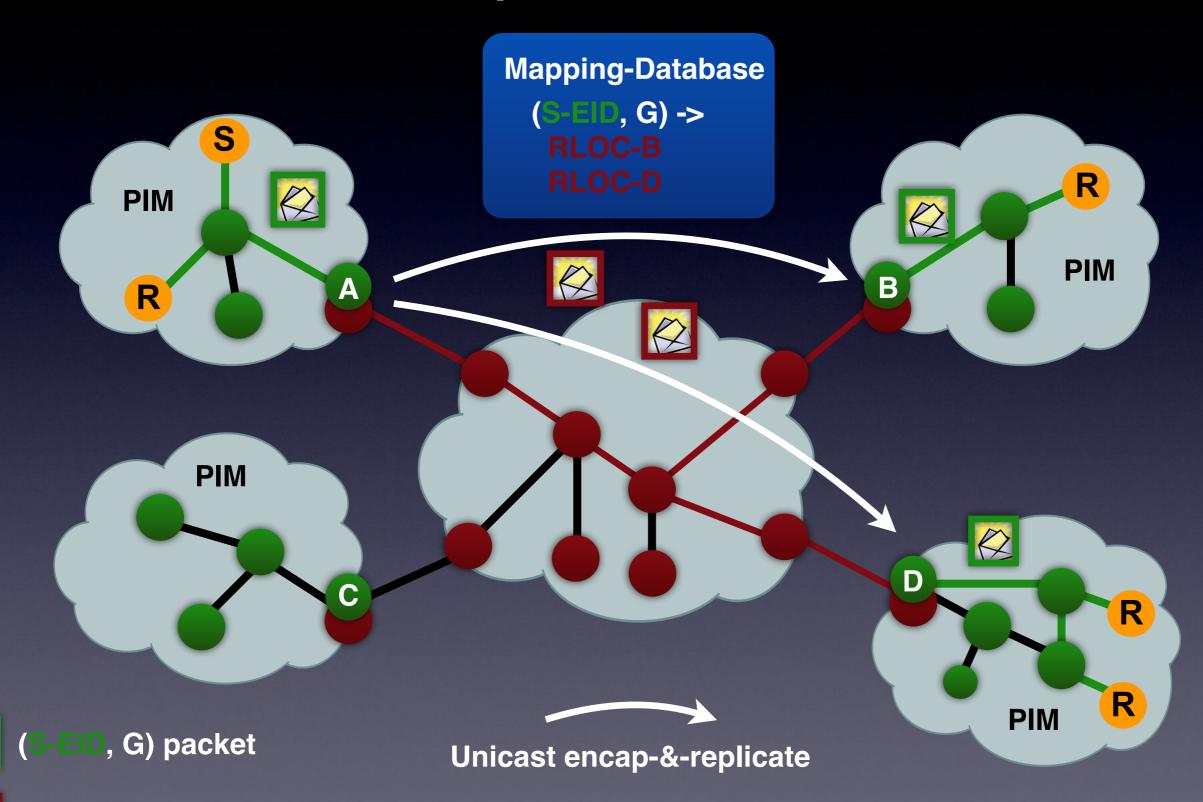
#### Solution

Just use the Mapping Database System!

# Simple Case



# Complex Case





## Open Issues

- In the Complex Case Push/Pull Conflict
  - ITR cannot attract packet if it doesn't join tree in source site
  - ITR cannot join tree because it doesn't know what (S-EID, G) state was joined in receiver sites
  - When source directly connected we are okay
  - Otherwise, source site must run PIM-ASM and ITR needs to be PIM-RP

## Open Issues

- Can this scale?
  - **ETRs** register with *merge-semantics* will the replication list in the Mapping Database get too large?
  - Too much head-end replication?
- Mapping Database can hold DG state to reduce size of replication list in both the Mapping Database and in the ITR

# Questions?