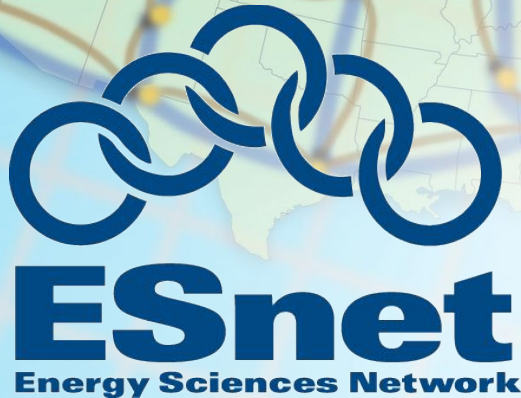


# IPv6 Routing Policy Is It ARIN's Job?

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# Should ARIN Make Routing Policy?

- ARIN staff and the AC often say that ARIN does not do routing policy

**But...**

- The ARIN NRPM repeatedly states that aggregation is of paramount importance
  - Calls for LIRs to aggregate to a single prefix
    - This is simply dictating routing policy without any benefit to the management of the address space
  - This seems to be ARIN dictating routing policy

# No Traffic Engineering Allowed!

- Announcing a single prefix to everyone at every location breaks all current models of traffic engineering
  - All are based on announcing prefixes at different locations with metrics adjusted to both balance traffic and minimize latency
- Mainly an issue for those with a geographically large footprint

# IPv4 Practice

- Address spaces are announced with different metrics at different locations (e.g. California and New York)
  - Allows traffic to remain localized
  - Allows for adjustment of traffic flows to balance loads
    - 192.168.128/17 announced in San Jose
    - 192.168.0/17 Announced in New York
    - Covering 192.168.0/16 announced to all

# IPv6 Practice

- Only the /32 announced at all locations
- No way to tell peers the closest point for any part of the address space
- No way to localize traffic
- No way to balance flows
- Should not be ARIN's business
  - Several have said that they will ignore ARIN policy