LISP Anonymous EID

draft-farinacci-lisp-eid-anonymity-01
Dino Farinacci and Padma Pillay-Esnault
EID and Anonymity

Typically, an EID is
  ◦ globally unique to allow communication across the Internet
  ◦ Fixed where it RLOC changes when it EID is mobile

There are privacy concerns as EID is long lived, it may be possible to track
information regarding a specific entity/user.
Some areas in the work have regulations regarding privacy and tracking on
mobile devices.

There are a couple of ways to address this:
  ◦ Ensure the ID is not visible to third party on transit.
  ◦ But... it still does not protect against some who at one point legitimately
    learnt your EID to request your location periodically.

Ephemeral EID can ensure privacy of a source if they are random short-
lived and shared across a large pool.
In a nutshell

Proposal Reserve a range
  ◦ For IPv6 in the experimental LISP EID- block 2001:5::/32.
  ◦ For IPv4 the Class E block 240.0.0.0/4 is being proposed.

When a Client end-node initiates a communication with anonymity.

1. Create and assign an ephemeral-EID on any interface.

2. xTR Register the ephemeral-EID with a globally routable RLOC.

3. Send/receive packets with the ephemeral-EID as src/dest.

4. Deregister/Timeout on ephemeral-EID.
Next

Request comments/feedback from the wg

Questions?