Encoding Names in LISP draft-farinacci-lisp-name-encoding-15

IETF Philadephia LISP WG July 2022

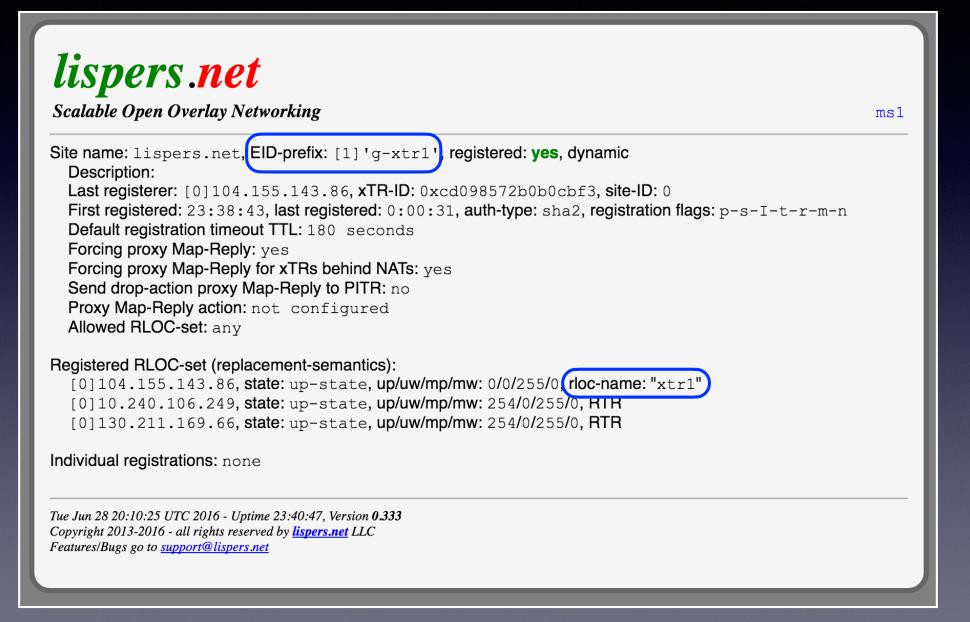
Dino Farinacci

Sun Jul 24 12:21:43 PDT 2022

Overview

- We can encode a "distinguished-name" in an EID-record or RLOC-record
- Use AFI=17 and null terminate ASCII string
 - More compact encoding and more general purpose than LCAFs
- Provides for self-documenting mapping database records
- Provides for multi-stage lookups and groupings
- Supported by LISP-DDT with no changes
 - Lookup for /root/dino/slides/philly
 - Matches /root/dino at DDT-root's children
 - Where **/root/dino/slides/philly** are registered to Map-Server
- Supported by LISP-Decent with no changes
- Map-Request lookups are typically exact match, but don't have to be

Example



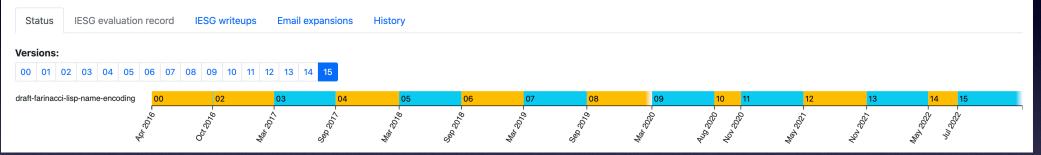
List of Use-Cases

- draft-ietf-lisp-ecdsa-auth
- draft-ietf-lisp-predictive-rlocs
- draft-farinacci-lisp-geo
- draft-kowal-lisp-policy-distribution
- draft-moreno-lisp-uberlay
- draft-farinacci-lisp-simple-nat
- draft-kjsun-lisp-dyncast

Draft Status

LISP Distinguished Name Encoding

draft-farinacci-lisp-name-encoding-15



- Started in April 2016
- Final individual submission last Sunday July 2022
- Many use-cases implemented and deployed

Moving Forward

- Have addressed collision commentary in -15
- Have requested WG document on lisp@ietf.org
- Would like to start WG Last Call now