#### Encoding Names in LISP draft-farinacci-lisp-name-encoding-11

IETF Bangkok (Virtual) LISP WG November 2020

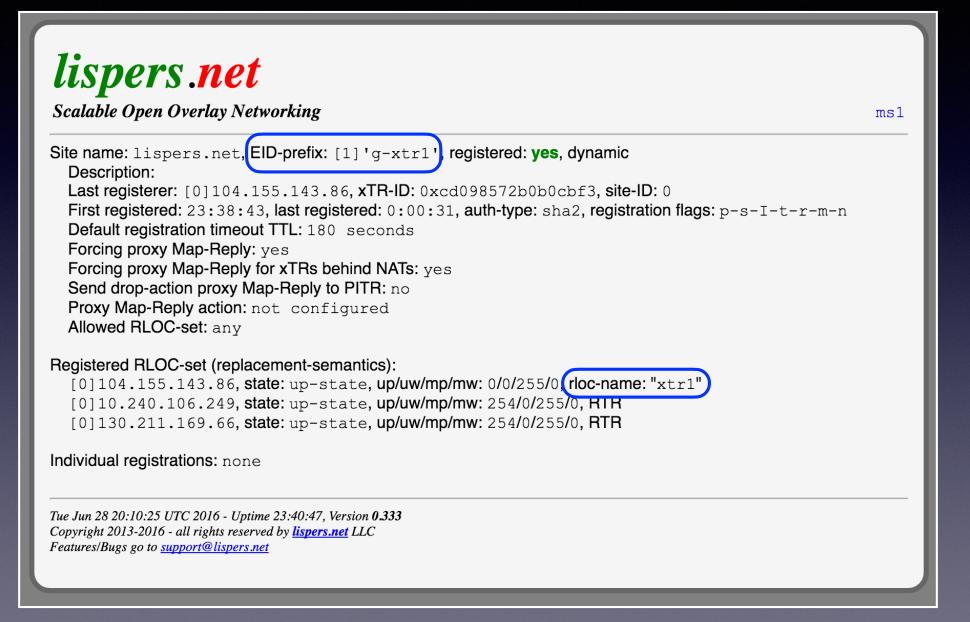
Dino Farinacci

Wed Nov 18 07:38:16 PST 2020

### Overview

- We can encode a "distinguished-name" in an EID-record or RLOC-record with AFI encoding
- 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/bangkok
  - Matches /root/dino at DDT-root's children
  - Where **/root/dino/slides/bangkok** are registered to Map-Server
- Supported by LISP-Decent with no changes
- Map-Request lookups are exact match typically

## Example



# Changes to -11

- Describe how lengths are encoded in control message encoding
- Added Use-Case section, references:

draft-ietf-lisp-ecdsa-auth

draft-farinacci-lisp-geo

draft-farinacci-lisp-simple-nat

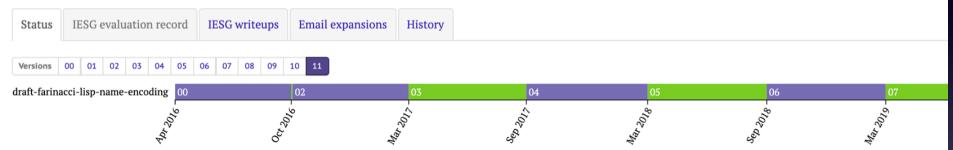
• Added Name Collision Considerations section, references:

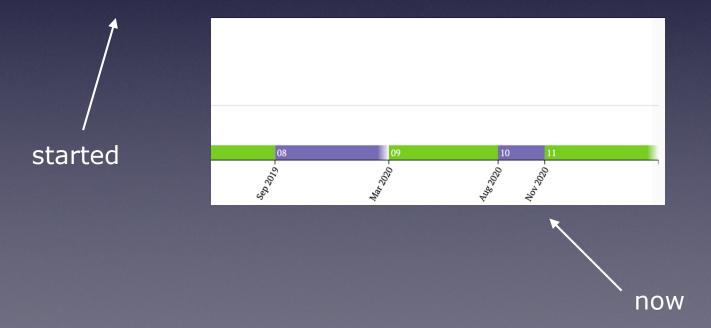
draft-ietf-lisp-rfc6833bis

## Draft Status

#### LISP Distinguished Name Encoding

draft-farinacci-lisp-name-encoding-11





## Progress Slow

#### Appendix B. Document Change Log

- B.1. Changes to draft-farinacci-lisp-name-encoding-11
  - o Submitted November 2020.
  - o Made changes to reflect working group comments.
  - o Update references and document expiry timer.

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- B.2. Changes to draft-farinacci-lisp-name-encoding-10
  - o Submitted August 2020.
  - o Update references and document expiry timer.
- B.3. Changes to draft-farinacci-lisp-name-encoding-09
  - o Submitted March 2020
  - o Update references and document expiry timer.
- B.4. Changes to draft-farinacci-lisp-name-encoding-08
  - o Submitted September 2019.
  - o Update references and document expiry timer.
- B.5. Changes to draft-farinacci-lisp-name-encoding-07
  - o Submitted March 2019.
  - o Update referenes and document expiry timer.
- B.6. Changes to draft-farinacci-lisp-name-encoding-06
  - o Submitted September 2018.
  - Update document expiry timer.
- B.7. Changes to draft-farinacci-lisp-name-encoding-05
  - o Submitted March 2018.
  - o Update document expiry timer.
- B.8. Changes to draft-farinacci-lisp-name-encoding-04
  - o Submitted September 2017.
  - o Update document expiry timer.
- B.9. Changes to draft-farinacci-lisp-name-encoding-03
  - Submitted March 2017. 0
  - o Update document expiry timer.

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- B.10. Changes to draft-farinacci-lisp-name-encoding-02
  - Submitted October 2016. 0
  - Add a comment that the distinguished-name encoding is restricted 0 to ASCII character encodings only.
- B.11. Changes to draft-farinacci-lisp-name-encoding-01
  - o Submitted October 2016.
  - Update document timer. ο
- B.12. Changes to draft-farinacci-lisp-name-encoding-00
  - o Initial draft submitted April 2016.

#### why?

there is utility there has been some support there has been commentary there has been no strong objections

### How to Move Forward

Third attempt to request WG to accept Draft

#### Questions/Reactions/Tomatoes?





