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**

### lispers.net

**Scalable Open Overlay Networking**

<table>
<thead>
<tr>
<th>Site name:</th>
<th>lispers.net</th>
<th><strong>EID-prefix:</strong></th>
<th>[1]'g-xtr1'</th>
<th>registered:</th>
<th>yes, dynamic</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description:</strong></td>
<td>last registered:</td>
<td>00:31, auth-type:</td>
<td>sha2, registration flags:</td>
<td>p-s-I-t-r-m-n</td>
<td></td>
</tr>
<tr>
<td>Last registerer:</td>
<td>[0]104.155.143.86, xTR-ID:</td>
<td>0xcd098572b0b0cbf3, site-ID:</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>First registered:</td>
<td>23:38:43,</td>
<td>default registration timeout TTL:</td>
<td>180 seconds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Forcing proxy Map-Reply:</td>
<td>yes</td>
<td>Forcing proxy Map-Reply for xTRs behind NATs:</td>
<td>yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Send drop-action proxy Map-Reply to PITR:</td>
<td>no</td>
<td>Proxy Map-Reply action:</td>
<td>not configured</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allowed RLOC-set:</td>
<td>any</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Registered RLOC-set (replacement-semantics):**

- [0]104.155.143.86, **state:** up-state, up/uw/mp/mw: 0/0/255/0, **rloc-name:** "xtr1"
- [0]10.240.106.249, **state:** up-state, up/uw/mp/mw: 254/0/255/0, RTR
- [0]130.211.169.66, **state:** up-state, up/uw/mp/mw: 254/0/255/0, RTR

**Individual registrations:** none
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

- 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