

# LISP Canonical Address Formats

`draft-ietf-lisp-lcaf-00`

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# Agenda

- Discuss `draft-farinacci-lisp-lcaf-{00-10}`
- Renamed `draft-farinacci-lisp-lcaf-10` -> `draft-ietf-lisp-lcaf-00`

# draft-ietf-lisp-lcaf-00

- Became WG document August 2012
  - Thank you LISP working group!
- 11 individual submission led up to WG draft

# draft-farinacci-lisp-lcaf-00

- Initial draft submitted April 2010
- Requested IANA for AFI = 16387
  - Hiroshima IETF - ~November 2009
  - Thanks Terry Manderson!
- Every LISP control-plane packet uses AFI encodings for EIDs & RLOCs
- Idea is to add use-cases:
  - Without packet format changes
  - Without changes to any mapping database system

# draft-farinacci-lisp-lcaf-00

- 16-bit AFI followed by variable length address, typically used AFIs:
  - AFI **0**: Null address
  - AFI **1**: IPv4
  - AFI **2**: IPv6
  - AFI **6**: IEEE MAC address
  - AFI **16387**: LCAF encodings

# -01 through -06

- Occurred 2010-2011, changes included:
  - Editorial fixes
  - Addition of **Multicast Info** Type
  - Addition of **Explicit Locator Path** Type
  - Addition of **Security Key** Type
  - Added multiple NTR RLOC addresses to **NAT-Traversal** Type
  - Added section to bind addresses for possible IPv4/IPv6 address translation

# -07 through -10

- Occurred 2010-2011, presented at Vancouver IETF - changes:
  - IID mask length for LISP-DDT
  - Add Altitude to Geo-Coordinate Type
  - draft-ermagan-lisp-nat-traversal-01
  - draft-farinacci-lisp-mr-signaling-00
  - ELP Type changes for draft-farinacci-lisp-te-01
  - Security Key Type changes for LISP-DDT-SEC
  - Compatibility for new LCAF Types - to skip over by older parsers

# draft-ietf-lisp-1caf-00

- Type 0: Null Body Type**
- Type 1: AFI List Type**
- Type 2: Instance ID Type**
- Type 3: AS Number Type**
- Type 4: Application Data Type**
- Type 5: Geo Coordinate Type**
- Type 6: Opaque Key Type**
- Type 7: NAT-Traversal Type**
- Type 8: Nonce Locator Type**
- Type 9: Multicast Info Type**
- Type 10: Explicit Locator Path Type**
- Type 11: Security Key Type**
- Type 12: Source/Dest Key Type**



# Closing Comment

- `draft-ietf-lisp-mib-07` should (and does) reference `draft-ietf-lisp-lcaf-00`
- ADs working **LispAddressType** issue now with LISP MIB authors