IANA Registry for LISP Packet Type Allocations & Shared LISP Experiments

draft-boucadair-lisp-type-iana-00
IETF 95-Buenos Aires, March 2016

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Problem #1

- Several extensions have been proposed to add more LISP functionalities

- New message types are proposed in, e.g.,
  - I-D.ietf-lisp-ddt, I-D.zhao-lisp-mn-extension, I-D.boucadair-lisp-bulk, I-D.boucadair-lisp-subscribe, I-D.boucadair-lisp-ms-assisted-forwarding

- It is expected that additional LISP extensions will be proposed in the future

- The type space is limited

- **it is difficult to track current LISP messages types that have been defined so far**

- **No values are defined for experimental/private use**

Proposal #1

- In order to ease the tracking of LISP message types, this document proposes to create a "*LISP Packet Types*" IANA registry
  - The values in the ranges 5-7 and 9-14 can be assigned via Standards Action
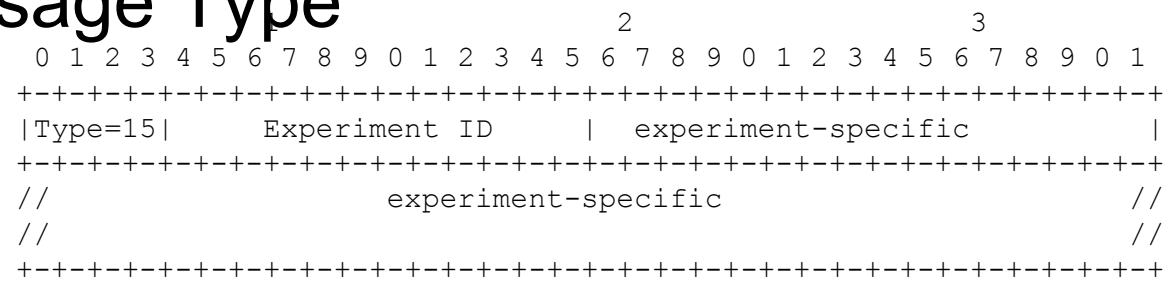
Proposal #2

- Propose to reserve value 15 for Experimental Use

Problem #2

- Conflicts may arise when experimenting new extensions in uncontrolled environments

Proposal #3

- Propose a common format for LISP Experimental Message Type

```
                     2                   3
 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
|Type=15|      Experiment ID      |   experiment-specific      |
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
//                 experiment-specific                       //
//                                                           //
+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+-+
```

- Experiment IDs are used to uniquely identify a given LISP experimental message

- IDs are selected by the authors of a specification

- IDs are assigned on a First Come, First Served (FCFS) basis

- IANA is requested to create a "LISP Experimental Message Experiment Identifiers" registry

What's Next?

- Comments are welcome
- Consider WG adoption?