

LISP EID Block Allocation

draft-iannone-lisp-block-mgmt-01.txt

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Thanks for all the Discussion

- Document is a success :-)
- <http://www.ietf.org/mail-archive/web/lisp/current/msg04252.html>

“This document is a first attempt to trigger discussion on this specific point.”

Luigi Iannone

IETF LC Result: More Work Needed

- How will this space be managed
 - Who will allocate the space?
 - How will be allocated?
 - What are the requirements?

Missing

- Obviously the content of the document will change to reflect today's discussion
 - (and also ML discussion)

IETF LC Result: More Work Needed

- How will this space be managed
 - ~~– Who will allocate the space?~~ **Not in scope**
(at least for now)
 - How will be allocated?
 - What are the requirements?
- Hence this presentation is not about the current content of the draft, rather on the future content ;-)

Requirements (I)

- Credits to David Conrad:
 - <http://www.ietf.org/mail-archive/web/lisp/current/msg04324.html>
- Allocations MUST be globally unique
- Requirements for allocation MUST be the same globally
 - (no regional/national/local variation)
- Allocations MUST be <size or way to determine size>
- Allocation service MUST be provided at no more than cost
- Registration data MUST be maintained and be made publicly available via <something, e.g., whois>
- Registration maintenance MUST be provided at no more than cost
- Reverse DNS SHOULD be provided
- The service MUST be available <service level commitments>

Requirements (II)

- Allocation for private use **MUST NOT** be announced in BGP and **MUST NOT** be registered in the Public Mapping System
- Allocation publicly announced **MUST** be registered in the Public Mapping System and **COULD** be announced through PxTRs
- Allocation **CAN** be fragmented in smaller blocks when registered in the Public Mapping System
 - In this case unused block **MUST** be registered as Negative Mappings in the Public Mapping System
- Allocation **SHOULD NOT** be fragmented in smaller blocks when announced by PxTRs

How urgent is this?

- Question 1 by J. Curran
 - <http://www.ietf.org/mail-archive/web/lisp/current/msg04368.html>
- No urgent need
- Benefits are architectural
- But having the block soon with a simple allocation process will boost LISP deployment

Temporary vs. Permanent

- Question 2 by J. Curran
 - <http://www.ietf.org/mail-archive/web/lisp/current/msg04368.html>
- Plan for success
 - but be ready for failure....
- Permanent Allocation Process has benefits
 - If success no more work to do
 - If failure we still had a clean and neat process
 - IETF can benefit from it
- Outcome will results in final EID Block size (in 10 years)
 - Plain Success: keep the /12
 - Plain Failure: give /12 back to free pool
 - Reality will obviously be different

Open Questions

- Sub-Allocations
 - E.g., Telecom ParisTech asks for a large block and sub-allocates smaller chunks to other french academic institutions
- Request Rationale
 - Short motivation document when asking for the allocation?
- Other?

- Please Comment