LISP 6830bis & 6833bis

draft-farinacci-lisp-rfc6830bis-00

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IETF 97 – Seoul

November 2016

Scope & Context

The LISP WG is chartered to continue work on the LISP base protocol and produce standard-track documents. In order to produce a coherent set of documents, **the first (and high priority) work item of the LISP Working Group is to develop a standard-track solution based on the completed Experimental RFCs** and the experience gained from early deployments. This work will include reviewing the existing set of Experimental RFCs and doing the necessary enhancements to support a base set of standards track RFCs. The group will review the current set of Working Group documents to identify potential standards-track documents and do the necessary enhancements to support standards-track.

Scope & Context

- Apr 2017 Submit a LISP unicast data-plane specification (6830bis) document to the IESG for consideration as Proposed Standard
- Jul 2017 Submit a LISP control-plane specification (6833bis) document to the IESG for consideration as Proposed Standard

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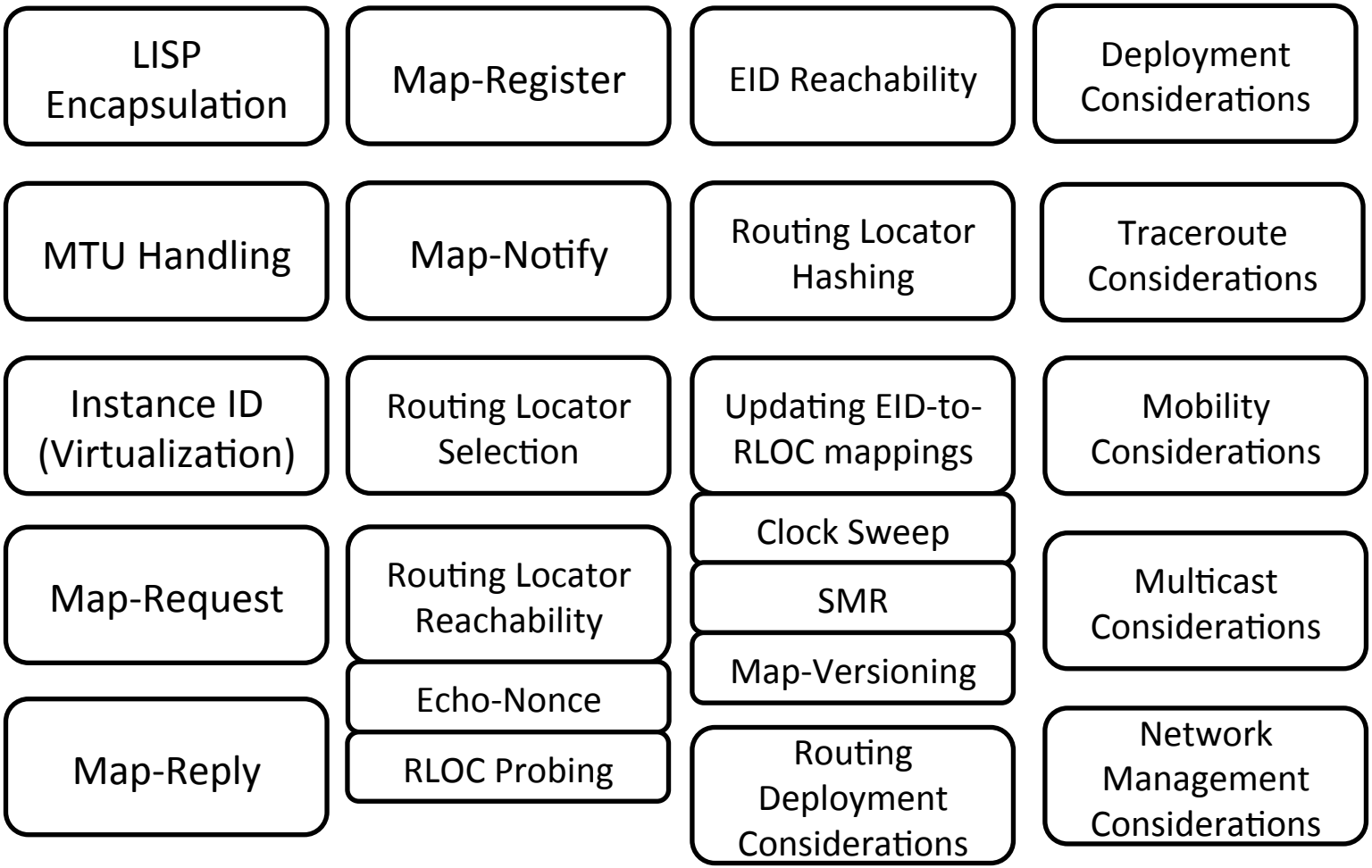

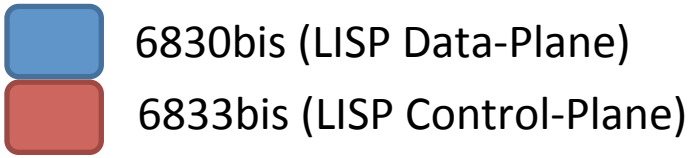

LISP Encapsulation

Map-Register

EID Reachability

Deployment Considerations

MTU Handling

Map-Notify

Routing Locator Hashing

Traceroute Considerations

Instance ID (Virtualization)

Routing Locator Selection

Updating EID-to-RLOC mappings

Clock Sweep

SMR

Map-Versioning

Mobility Considerations

Map-Request

Routing Locator Reachability

Echo-Nonce

RLOC Probing

Multicast Considerations

Map-Reply

Routing Deployment Considerations

Network Management Considerations

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- **Introduction**: Removed scalability of the DFZ discussion
- **Basic Overview**: Added ref. to LCAF and to 6833bis
- **LISP Encap**: Added kk bits from LISP-Crypto
- Added **LISP Map-Cache** section that describes (not specifies) relation between 6830bis and 6833bis
- Fixed typo in **MTU handling**

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- **Multicast considerations:** Shorter, added ref to signal-free-multicast
- **Mobility considerations**: Shorter
- **Deployment considerations**: Added discussion on centralized vs. distributed caches and RTRs.
- **Security considerations**: Requires further discussion
- Removed **Open Issues**

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- Changed title to **Locator/ID Separation Protocol (LISP) Control-Plane**
- **Introduction**: Mention that this control-plane works with 6830 but can work with other data-planes
- Added **Map-Request, Map-Reply, Map-Register and Map-Notify** messages from 6830
- Indicate there may be nodes in the mapping system that are not MRs or MSs, that is a ALT-node or a DDT-node.
- Update control-plane messages to incorporate what has been implemented in products during the early phase of LISP development but wasn't able to make it into RFC6830

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- Include LISP-DDT in **Map-Resolver section** and explain how they maintain a referral-cache.
- Removed **open issue** about additional state in Map-Servers. With [I-D.ietf-lisp-ddt], Map-Servers have the same registration state and can give Map-Resolvers complete information in ms-ack Map-Referral messages.
- Make reference to the LISP Threats Analysis RFC [RFC7835].

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