Status

• list of editorial changes sent by Luigi that are being addressed in -01
• 1 Technical comment open in section “4. Backward Compatibility”
  • PROPOSAL: address backward compatibility with the same logic used by RFC8061 (LISP Crypto)
• Currently there are two existing LISP-GPE open source implementations in FD.io and OOR (OpenOverlayRouter.org)
Backward Compatibility: PROPOSAL

• Address backward compatibility for LISP-GPE with the same logic applied to RFC 8061 (LISP Crypto), that is:
  
  • A LISP packet with LISP-GPE extensions uses UDP port 4341
  
  • An ITR uses LISP-GPE extensions IF AND ONLY IF the ETR has explicitly acknowledged support for LISP-GPE
    
    • Using RFC 8060 “Multiple Data-Planes” LCAF Type

```plaintext
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
|                 | 0  1  2  3  4  5 6  7  8  9  0  1  2  3  4  5  6  7  8  9  0  1 |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
| AFI = 16387    | Rsvd1          | Flags          |                 |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
| Type = 16      | Rsvd2          | Length         |                 |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
| Reserved-for-Future-Encapsulations | g|U|G|N|v|V|l|L |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
| AFI = x        | Address ...     |                |                 |
+----------------+----------------+----------------+----------------+----------------+----------------+----------------+----------------+
```

g: The RLOCs listed in the AFI-encoded addresses in the next longword can accept LISP-GPE (Generic Protocol Extension) encapsulation using destination UDP port 4341.
4. Backward Compatibility

LISP-GPE uses the same UDP destination port (4341) allocated to LISP.

A LISP-GPE router MUST not encapsulate non-IP packets to a LISP router. A method for determining the capabilities of a LISP router (GPE or "legacy") is out of the scope of this draft.

When encapsulating IP packets to a LISP "legacy" router the P bit MUST be set to 0.
4. Backward Compatibility

LISP-GPE uses the same UDP destination port (4341) allocated to LISP.

An ITR can use LISP-GPE data plane extensions only to encapsulate to those RLOCs for which the ETR has explicitly indicated in the Map-reply support for LISP-GPE using the “Multiple Data-Planes” LCAF Type (see IANA considerations).
Next Steps

• Allocate a new LISP-GPE “g” bit in the “Reserved-for-Future-Encapsulations field” of the “Multiple Data-Planes” LCAF Type
  • Using the IANA considerations section of the LISP-GPE draft
• Update Section 4 accordingly
• Address Luigi’s editorial comments
• Publish -01
• Propose LISP-GPE for last call