

InterFE LFB

Forwarding and Control Element Separation
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Jamal Hadi Salim <hadi@mojatatu.com>
Damascene Joachimpillai <dj@verizon.com>

Updates from -03

- No longer worrying about fragmentation service
 - Use a *large enough mtu*
 - CE should be able to program NE wide where needed
 - Simplifies things

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Reminder: Message Layout

```
+-- Main ForCES header
| |
| | +---- msg type = REDIRECT
| | +---- Destination FEID
| | +---- Source FEID
| | +---- NEID (first word of Correlator)
|
+-- T = ExceptionID-TLV
| |
| | +-- +-Exception Data ILV (I = exceptionID , L= length)
| | | |
| | | | +----- V= Metadata value
| | |
| | .
| | .
| | . +-Exception Data ILV
|
.
+-- T = METADATA-TLV
| |
| | +-- +-Meta Data ILV (I = metaid, L= length)
| | | |
| | | | +----- V= Metadata value
| | |
| | .
| | .
| | . +-Meta Data ILV
|
.
+-- T = REDIRECTDATA-TLV
|
+-- Redirected packet Data
```

Message Layout: Main header

- Source ID used to identify originating FEID
 - Maps to src MAC address
- Destination FEID
 - Maps to dst MAC address
- Tenantid/NEID
 - When present map to a VLAN
- ForCES TLVs still used
 - METADATA, EXCEPTION-ID
 - REDIRECTDATA carrying original payload

LFB Layout

- Egress: One main table
 - looked up by interFE ID
 - Result:
 - VLAN(optional), DMAC, SMAC, table of allowed metadata and table of allowed exception
 - Encapsulate
- Ingress: Strip metadata, exceptions and data and apply appropriately based on implementation

Plan

- Protoyping a Linux kernel implementation
- Would like for WG adoption
- Update the document and try to get to WG LC sometime in september

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