

# InterFE LFB

Forwarding and Control Element Separation  
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# Updates from -01

- Added another example of an arbitrary network service
- More focus on Ethernet level
  - Leave idea to run over IP open
  - Remove focus from proprietary/inter-chip etc
- Use ForCES Redirect header
- Propose fragmentation and re-assembly handling

# 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
- Moved suggested tenantid/NEID to the first word of the correlator
  - Default NEID 0

# Fragmentation/Assembly

- Common use case:
  - Source FE collects full message and frags
  - Dest FE waits for all
- Use main header leftover correlator word
- Split into two 16 bit fields
- *Frag count* field keeps track of ordering
- *Frag total* tracks of expected frag count