An Optional Encoding of the BIFT-id Field in the non-MPLS BIER Encapsulation

draft-ietf-bier-non-mpls-bift-encoding-01
Status/History

• Informational document.
• Draft has been accepted by WG.
• New encoding added
  (based on discussion on the mailing list with Eric).
1. The Non-MPLS Static BSL-SD-SI BIFT Encoding

• The BIFT-id is 20 bits.
• We overload this BIFT-id field and carve out space for: BSL (4 bits), SD (8 bits) and SI (8 bits).
• For the data-pane, this remains a 20 bit value!!!
2. The Non-MPLS Static IBU-SI BIFT Encoding

• The BIFT-id is 20 bits.

• We overload this BIFT-id field and carve out space for: IBU (12 bits) and SI (8 bits).

• For the data-pane, this remains a 20 bit value!!!
2. The Non-MPLS Static IBU-SI BIFT Encoding

• Encoding 1 does not allow adding new dimensions, like (draft-zzhang-bier-multicast-as-a-service-00)

• The IBU is similar to the (global) MPLS Label.

• But this encoding already has space carved out for SI.

• With MPLS we allocated a range of labels (typically 256), but this comes down to the same thing.

• Any combination of {IBU, SI} can be associated with a specific SD, BSL and/or RD.

• It is more obvious now that the data-plane MUST never parse the 20bit field.
Questions?