

# IETF 103 Bangkok

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

### draft-ietf-bier-non-mpls-bift-encoding-01

IJsbrand Wijnands

Cisco

[ice@cisco.com](mailto:ice@cisco.com)

Xiaohu Xu

Huawei

[xuxiaohu@huawei.com](mailto:xuxiaohu@huawei.com)

Hooman Bidgoli

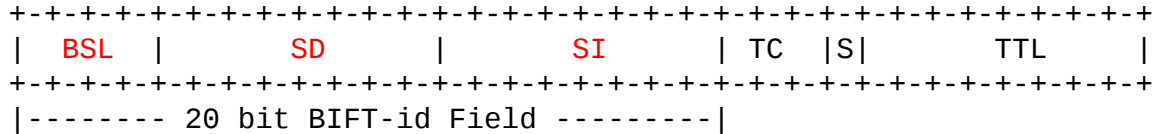
Nokia

[hooman.bidgoli@nokia.com](mailto:hooman.bidgoli@nokia.com)

## Status/History

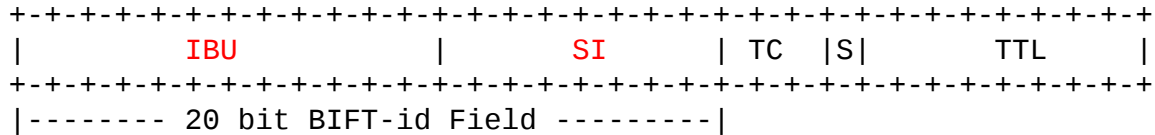
- Informational document.
- Draft has been accepted by WG.
- New encoding added  
(based on discussion on the mailing list with Eric).

# 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?