

IETF 100th Singapore

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

draft-wijnandsxu-bier-non-mpls-bift-encoding-00

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Background/History

- We have had a long discussion around encapsulation
 - MPLS labels vs Ethernet encoding
 - Decoupling Sub-Domain, Set Identifier, BSL from BIFT-id.
 - Static vs Dynamic BIFT-id's.
- Main goal, have a shared encoding between MPLS and non-MPLS encoding.
- We succeeded in having a shared encapsulation (draft-ietf-bier-mpls-encapsulation-12)!
- No need to rehash that discussion!

Open issues

- Xiaohu has expressed (from day one) the desire to have static allocated BIFT-id's.
- We have had lively discussions around that topic ^^
- The main reason to avoid static BIFT-id's is to prevent the data-plane from being aware of the BIFT arguments, like Sub-Domain, SI, BSL (others in the future).
- In this draft we're defining a method to create a static BIFT, without the data-plane to be aware.

Static BIFT-id benefits

- No need to advertise BIFT-id to {SD, SI, BSL} mapping.
- The BIFT-id is globally unique.
Easier to troubleshoot.

Informational draft

- The reason to document this encoding is to make sure different vendors are interoperable.
- There is no IANA action required.
- This is an informational draft

Questions?