

# Fine Grained Labeling

draft-ietf-trill-fine labeling-02.txt

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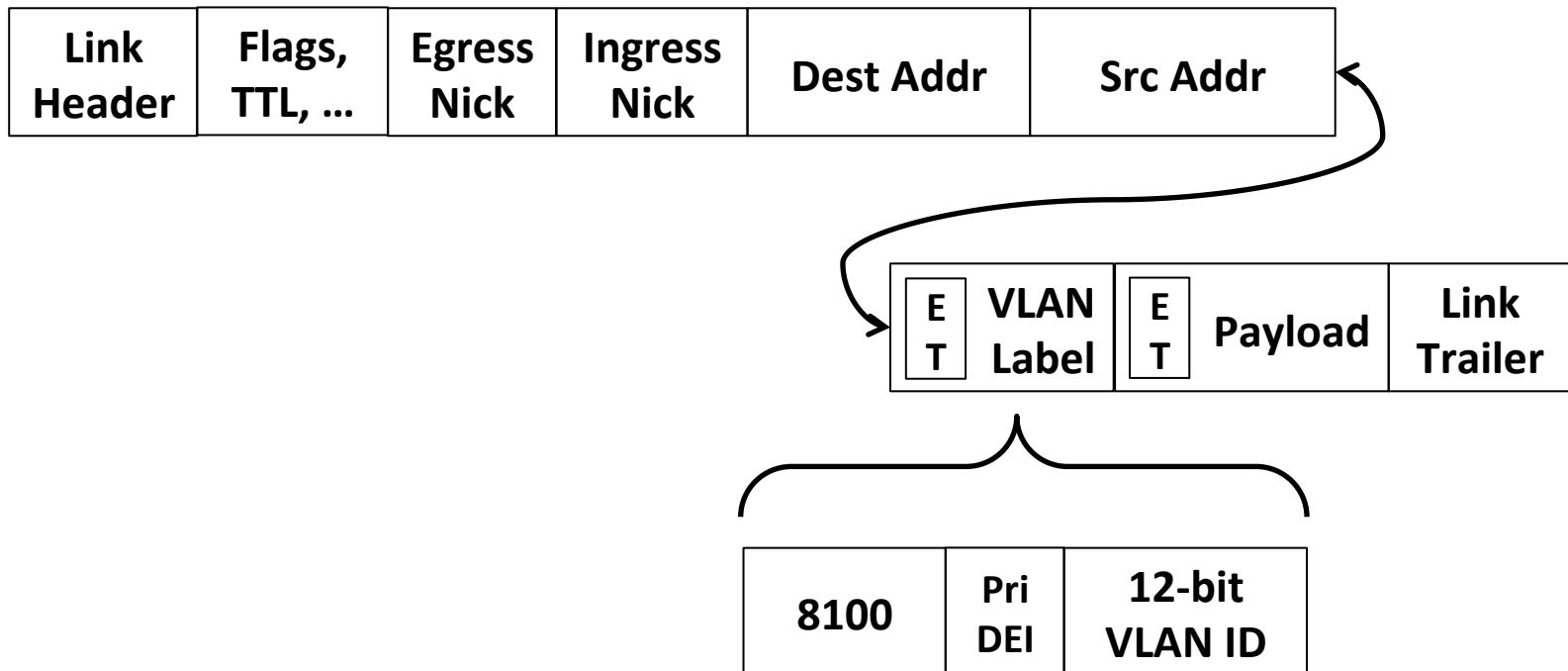
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# Fine Grained Labeling

- Current protocol data frame:

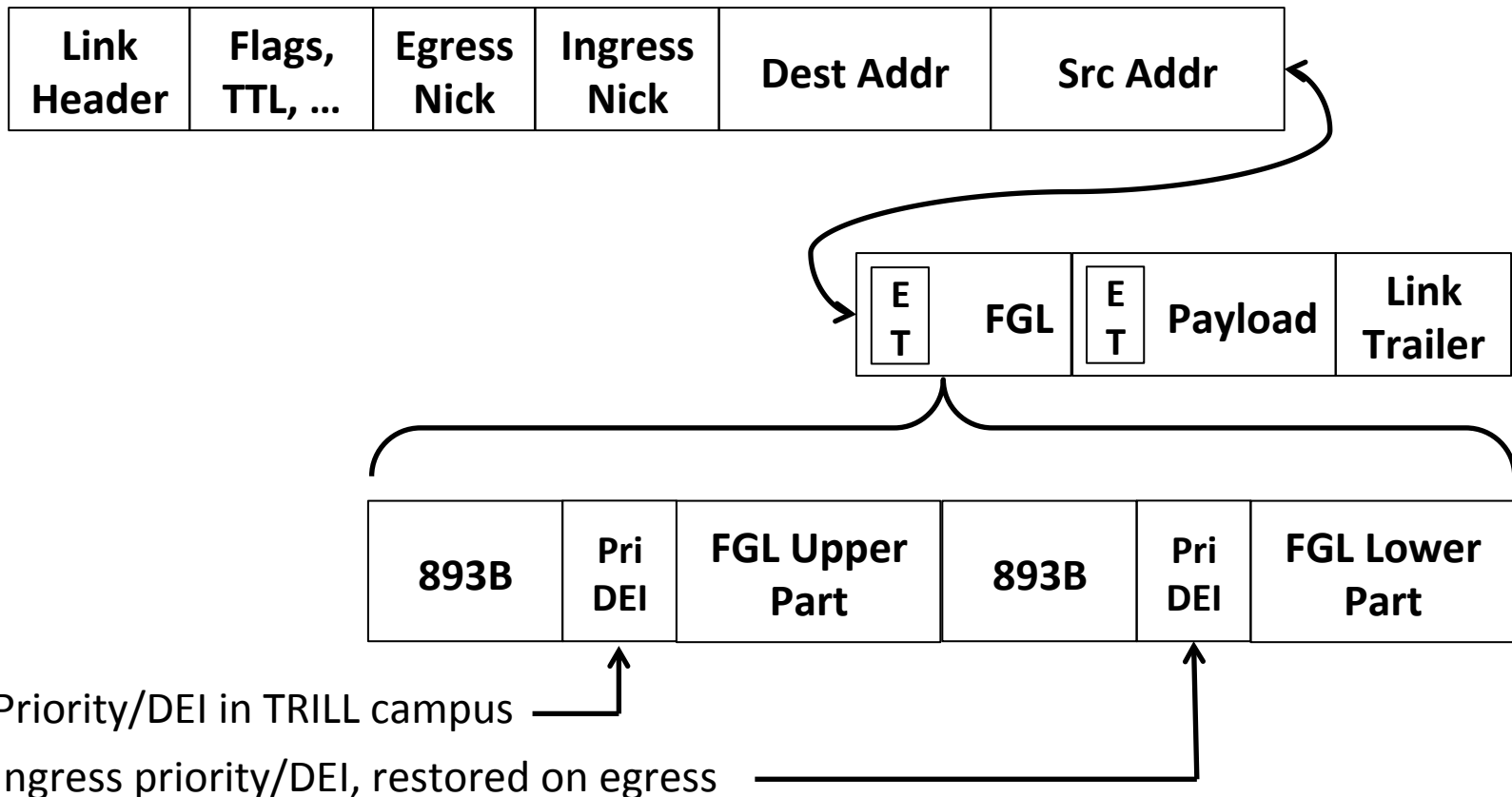


# Fine Grained Labeling

- Multi-tenant applications require substantially more than the  $2^{12} - 2$  isolatable data labels provided by VLANs
- Alternatives for expansion were presented at IETF-84 in Vancouver with a request to contact the authors of the draft.

# Fine Grained Labeling

- Consensus among those who contacted the authors:



# Fine Grained Labeling

- Design is
  - Incompatible with VLAN label only TRILL switches even if they are used only in the transit role. Such switches will discard or mishandle an FGL packet.
    - draft-ietf-trill-fine-labeling-02.txt assumes the intent is for the TRILL campus to be fine grained labeling aware and data isolates any VLAN only TRILL switches.
  - Compatible with much existing hardware.
  - Compatible with the structure of the fine grained label since the initial personal draft July 2011.

# Fine Grained Labeling

- One suggested change received in hallway conversation at this IETF meeting:
  - Limit fine grained labels to  $>4096$  to avoid collision with VLAN ID numbers for transition scenarios.
- Such a change seems unnecessary since the fine grained labels in use can be administratively restricted.

# END

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