

GMPLS-based Hierarchy LSP Creation in MRN/MLN

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draft-zhang-ccamp-gmpls-h-lsp-mln-05.txt

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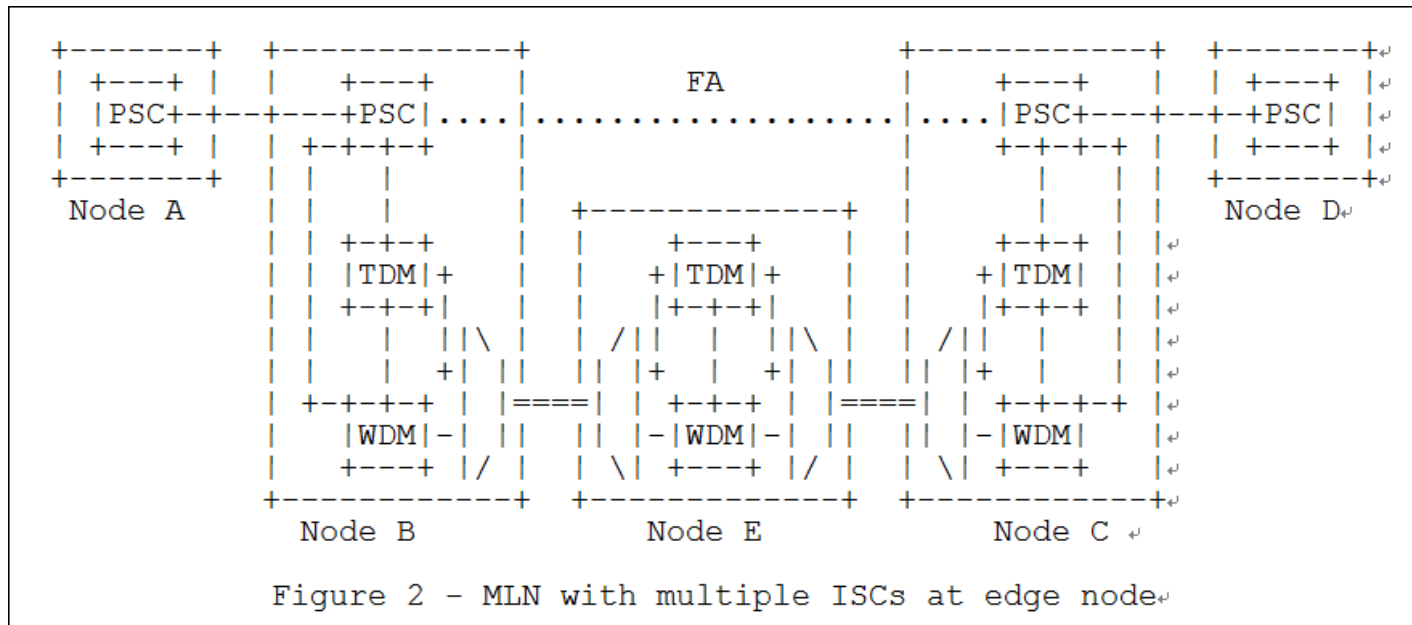
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Problem Statement (1/3)

- In MLN/MRN, **multiple switching capabilities** and/or **multiple switching granularities** and/or **adaptation functions** may exist in the server layer network. The source node of the client layer connection needs to specify:

1) which **server layer switching capability**

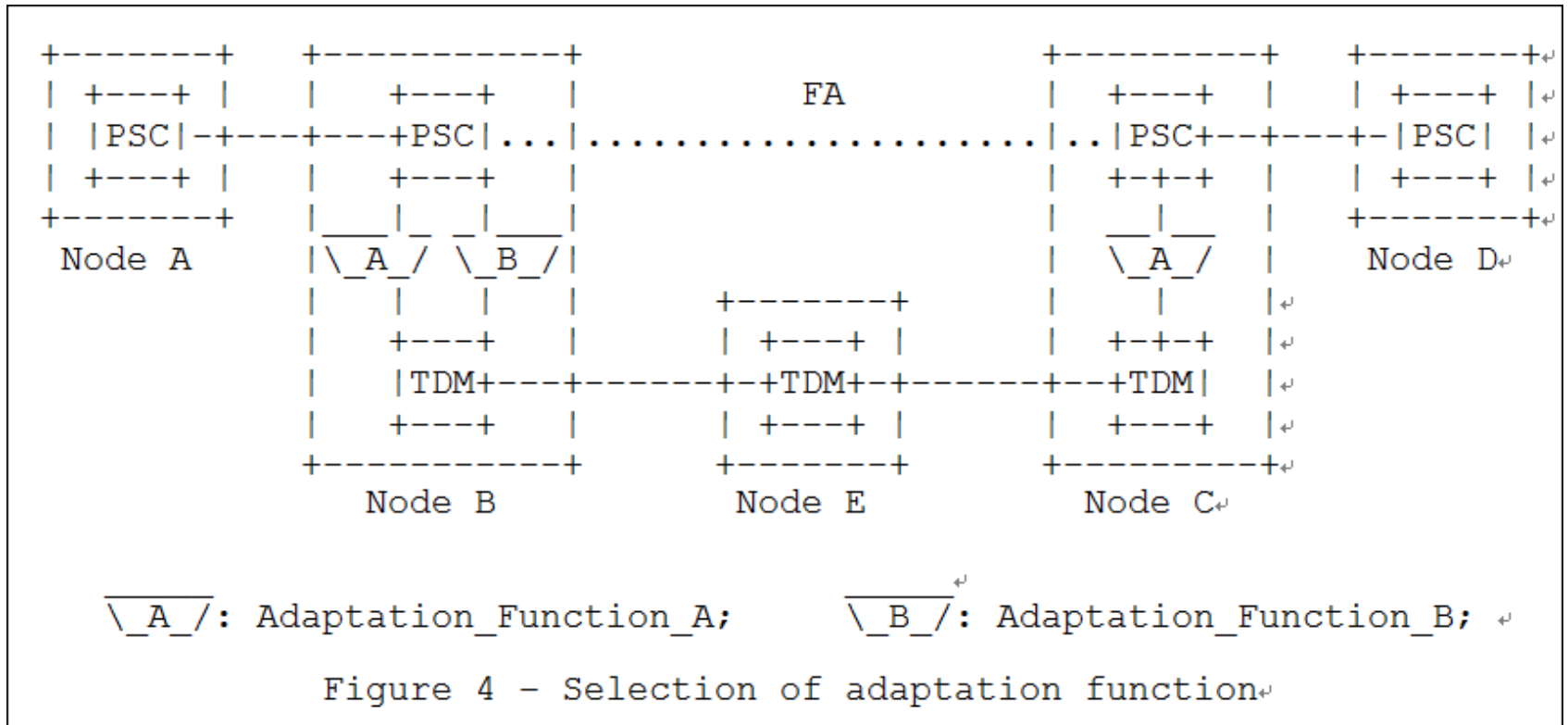
Example:



Problem Statement (3/3)

3) and/or **adaptation functions** is selected

Example:



Gap Analysis

Signaling:

- **RFC6001**: introduces a **SC subobject** in XRO, but only support SC exclusion, **NOT** the selection of SC in the server layer;
- **RFC6107**: Extending **LSP_TUNNEL_INTERFACE_ID object** to support ends point of lower layer LSP decide the feature of this LSP, including how the client use this LSP (private link etc.).

Conclusion: None of this extensions can solve the problem presented.

Next Step

- Please review our draft and we would like to move this draft forward;