

GMPLS-based Hierarchy LSP Creation in MRN/MLN

CCAMP WG, IETF 80th, Prague, Czech Republic

draft-zhang-ccamp-gmpls-h-lsp-mln-03.txt

Fatai Zhang <zhangfatai@huawei.com>

Dan Li <huawei.danli@huawei.com>

Francisco Javier Jimenez Chico <fjjc@tid.es>

Oscar Gonzalez de Dios <ogondio@tid.es>

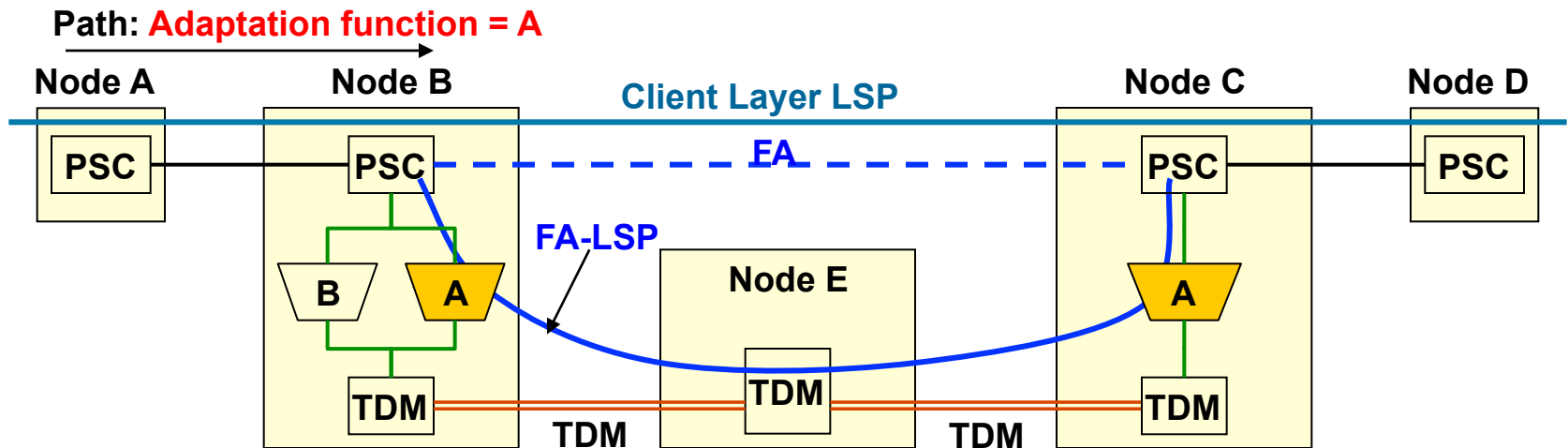
Cyril Margaria <cyril.margaria@nsn.com>

Overview of this Draft (Version 03)

- Overview of the draft:
 - In MLN/MRN, there may be **multiple switching capabilities** and/or **multiple switching granularities** and/or **adaptation functions** in the server layer network
 - The source node of the client layer connection needs to specify which **server layer switching capability** and/or **switching granularity** and/or **adaptation functions** is selected
- Changes from version 02:
 - We welcome **Cyril Margaria** to be the co-author
 - Support **selection of adaptation functions** of the server layer

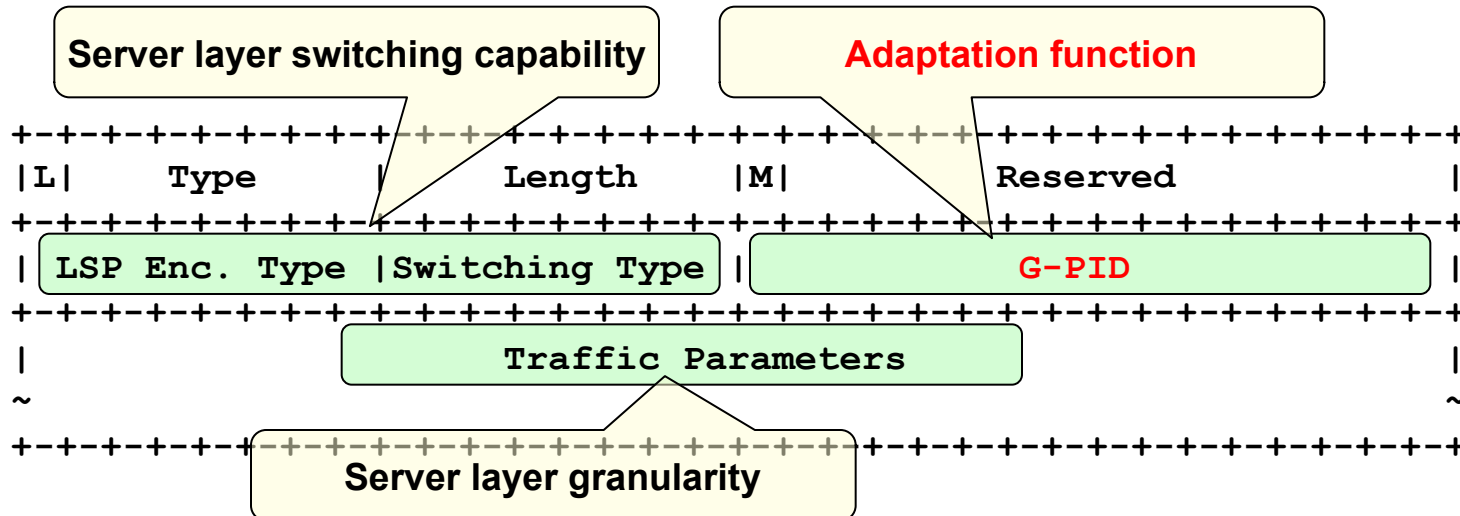
Selection of Adaptation Functions

- There may be **multiple adaptation functions** for the edge nodes to adapt the client signal into the server layer FA-LSP
- CALL mechanism may be used for adaptation function negotiation if the edge nodes support CALL mechanism
- But in case that the source node (i.e., node A) or PCE performs a full path computation including the server layer path, the **adaptation functions will also be selected by node A or PCE**
 - When creating the client layer LSP, the source node **should tell the edge node of the selected adaptation function**



Selection of Adaptation Functions

- G-PID can be used to indicate the payload type of the server layer (i.e., the client signal) as well as the adaptation function for adapting the client signal into the server layer FA-LSP
- The G-PID is added into the suggested SERVER_LAYER_INFO sub-object in ERO
 - The edge node of the server layer network will use the selected G-PID (i.e., adaptation function) to create the FA-LSP



Next Steps

- Adopt it as WG document
- Comments are always appreciated
- Refine it based on the feedback from the meeting or mailing list