

GMPLS Extensions for MLN/MRN

draft-rao-ccamp-mlnmrn-otn-ospfte-ext-03

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

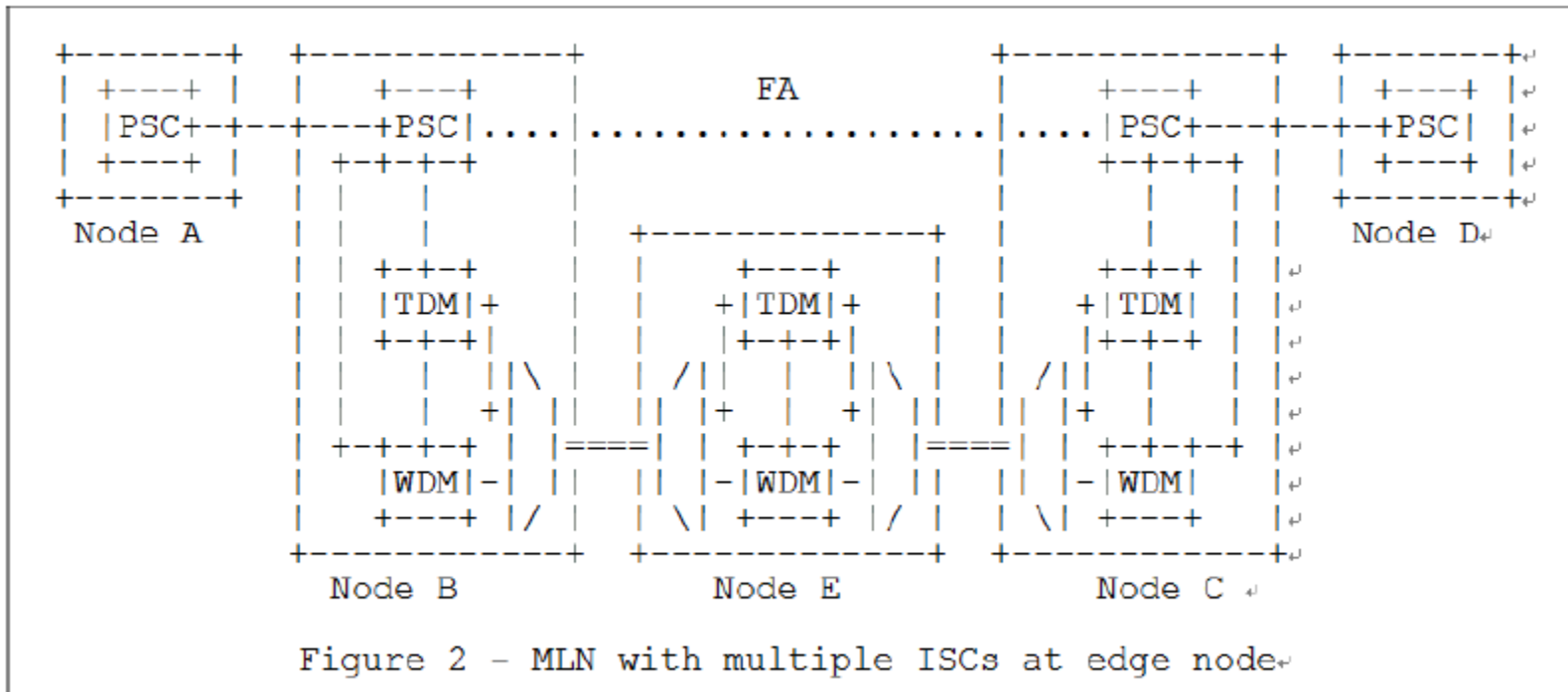
Fatai Zhang, Xian Zhang, O. Gonzalez de Dios & C. Margaria

CCAMP

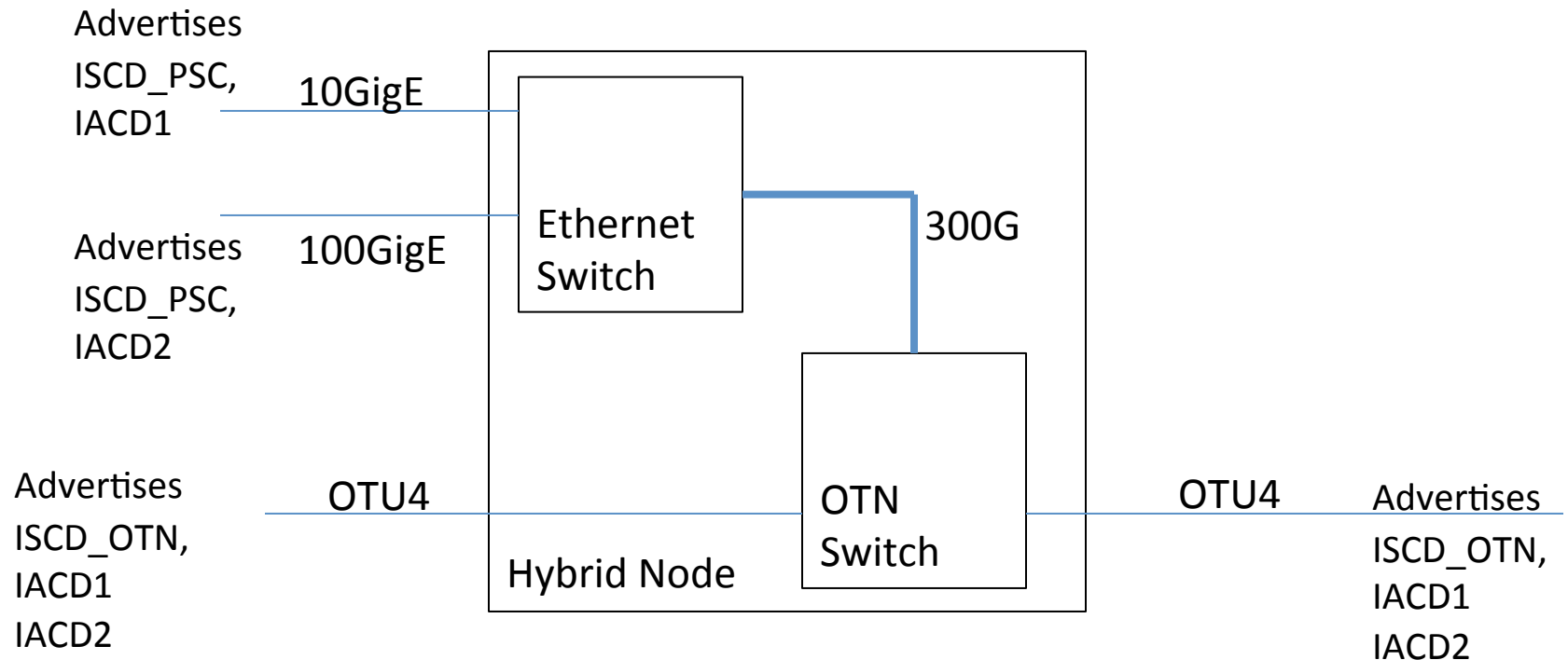
IETF-89, London

Context & Problem Statement

- Multiple switching capabilities exist in server Layer
 - Switching Cap, Adaptation & Switching Granularity
- Above info is required for E2E TE path computations
- Signaling also needs to carry server layer info
- Existing RFCs do not cover all aspects of multi-layer . For e.g. OTN mux layer identification



Example



IACD1

Upper SwitchCap/EncTyp : PSC/Ethernet

Lower SwitchCap/EncType : OTN-TDM/G.709 ODUk

SCSI : [SignalType+Hierarchy](#) ODU2-ODU4 (For 10GigE)

IACD2

Upper SwitchCap/EncTyp : PSC/Ethernet

Lower SwitchCap/EncType : OTN-TDM/G.709 ODUk

SCSI : [SignalType+Hierarchy](#) ODU4(For 100GigE)

Relevant Drafts – MLN/MRN

I-Ds for Routing and Signaling extensions:

- OSPF-TE extensions are addressed in
 - **draft-rao-ccamp-mlnmrn-otn-ospfte-ext-03.txt**
- RSVP-TE extensions are addressed in
 - **draft-zhang-ccamp-gmpls-h-lsp-mln-05.txt**

Status: draft-rao-ccamp-mlnmrn-otn-ospfte-ext-03

- No change since last IETF-88
- Draft is generic & Covers all layers
 - OTN & Ethernet
 - OTN & FlexGrid
 - OTN & SONET/SDH
 - OTN & OTN

Status: draft-zhang-ccamp-gmpls-h-lsp-mln-05

- No change since last IETF-88
- Draft is generic & Covers all layers
 - TDM & packet(e.g, OTN (or SDH) & Ethernet (or MPLS-TP))
 - TDM & wavelength (e.g, OTN & WSON)
 - TDM internal multilayer (e.g., OTN, SDH, OTN &SDH)

Next Steps

- We would like move both drafts together
- We request for WG adoption