

draft-merge-ccamp-otn-b100g-fwk-03

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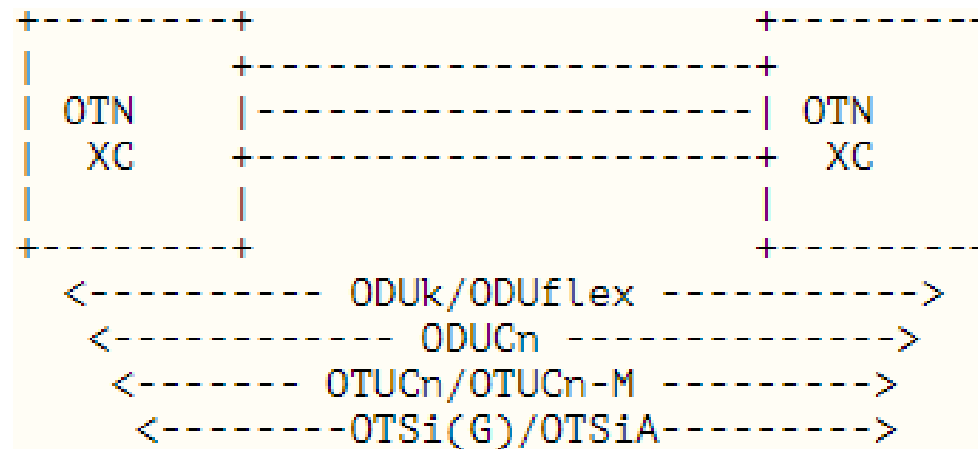
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What happened during IETF 100 meeting?

- F2F discussion happened during IETF Singapore meeting among authors and contributors of the draft based on the two typical scenarios depicted in Appendix XIII of [ITU-T_G709_2016].
- The discussion are mainly on challenges to the control of B100G network brought by the emergence of OTUCn/ODUCn, as well as the potential extension needed to GMPLS signaling and routing protocol.

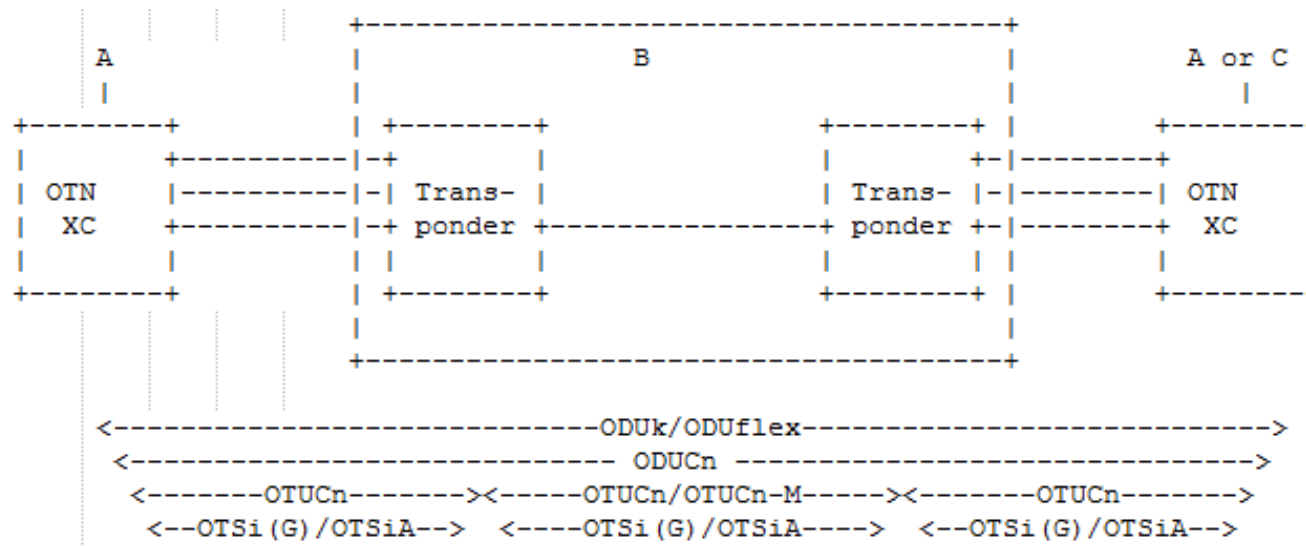
Applications and Challenges

- **First scenario:**
- This scenario deploys OTUCn/OTUCn-M between two line ports connecting two L1/L0 ODU cross connects (XC) within one optical transport network. One OTUCn is actually carried by one OTSi(G) or OTSiA.
- The OTUCn and ODUCn link can be automatically established, after/together with the setup of OT Si(G) or OTSiA.



Applications and Challenges

- **Second scenario:**
- One end-to-end ODUCn is actually supported by three different OTUCn or OTUCn-M segments, which are in turn carried by OTSi(G) or OTSiA.
- In this scenario, OTUCn links will be established automatically after/together with the setup of OTSi(G) or OTSiA, while there are still some doubts about how the ODUCn link is established.

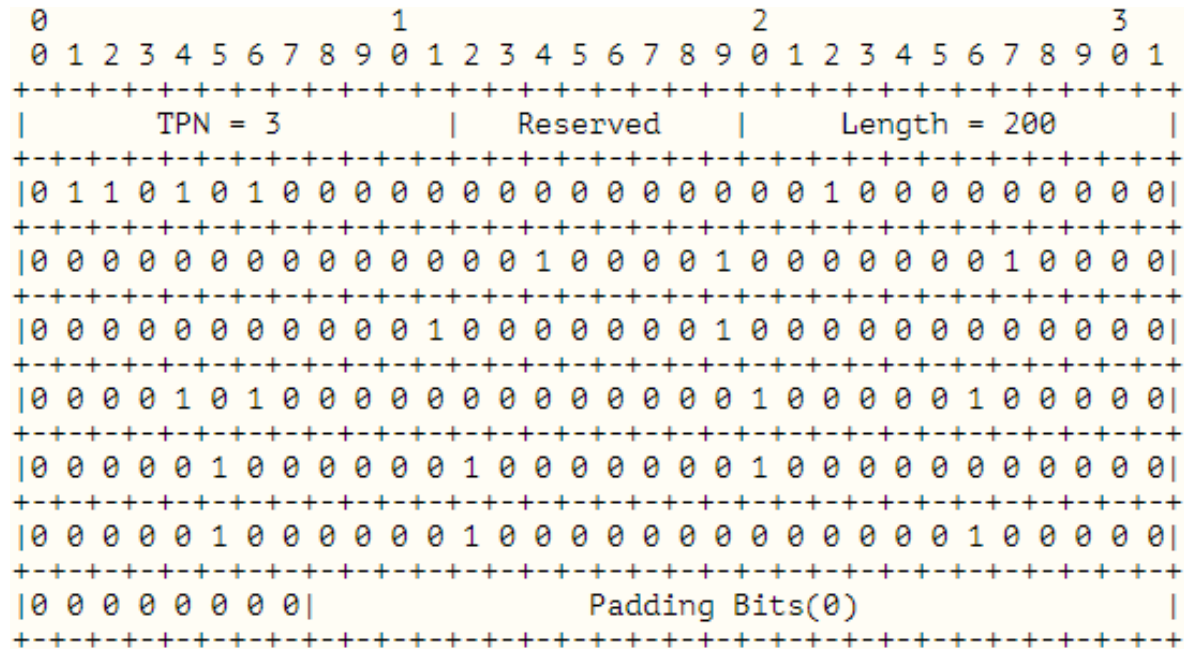


GMPLS Implications and Applicability

- According to the analysis described in previous slides, it can be concluded that uncertainty about setup of ODUCn link still exists, and this uncertainty may have relationship with the progress in ITU-T.
- Authors decided that the scope of this draft should mainly focus on how to set up ODUk/ODUflex LSPs over ODUCn links.
- The GMPLS mechanisms defined in RFC7138 and RFC7139 can be reused to help configure ODUk/ODUflex LSP with no changes once the ODUCn link is configured.

GMPLS Implications and Applicability

- Example: the label format defined in RFC7139 for multiplexing ODU4 onto ODUC10. One ODUC10 has 200 5G slots, and twenty of them are allocated to the ODU4.



Next steps

- Invite more review and comments.
- Request for WG adoption?