

**ANY – MPLS NETWORK INTERWORKING in
ITU-T SG13
(Pseudo Wire Emulation)**

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ATM-MPLS Network Interworking

Provides network interworking between ATM cells or AAL5 frames with MPLS:

- Cell mode Encapsulations, two types:
 - One-to-one
 - N-to-one
- **Applicable to both PVCs and SVCs**
- Frame mode encapsulation, two types:
 - AAL5 PDU
 - AAL5 SDU

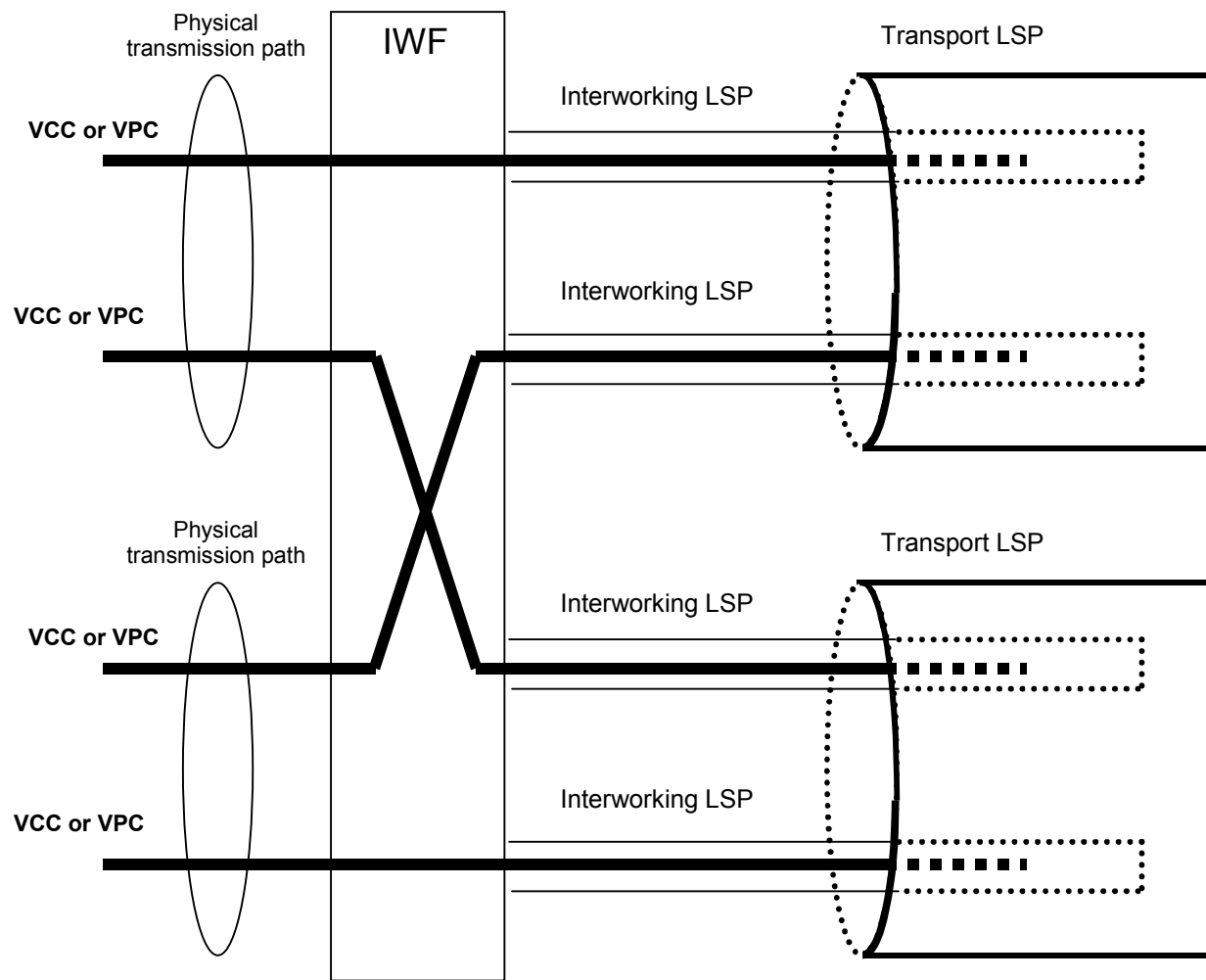


Illustration of One-to-one mode

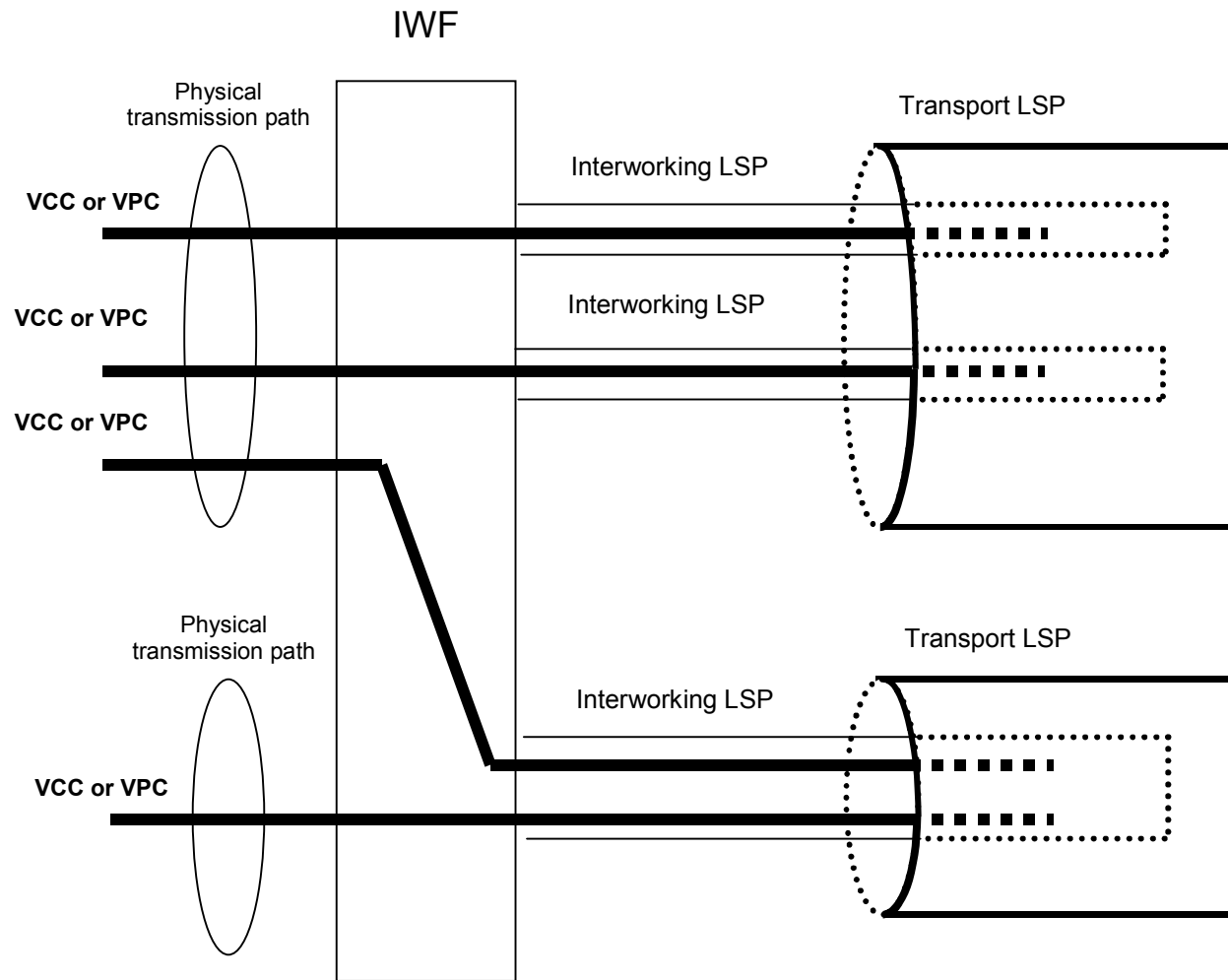
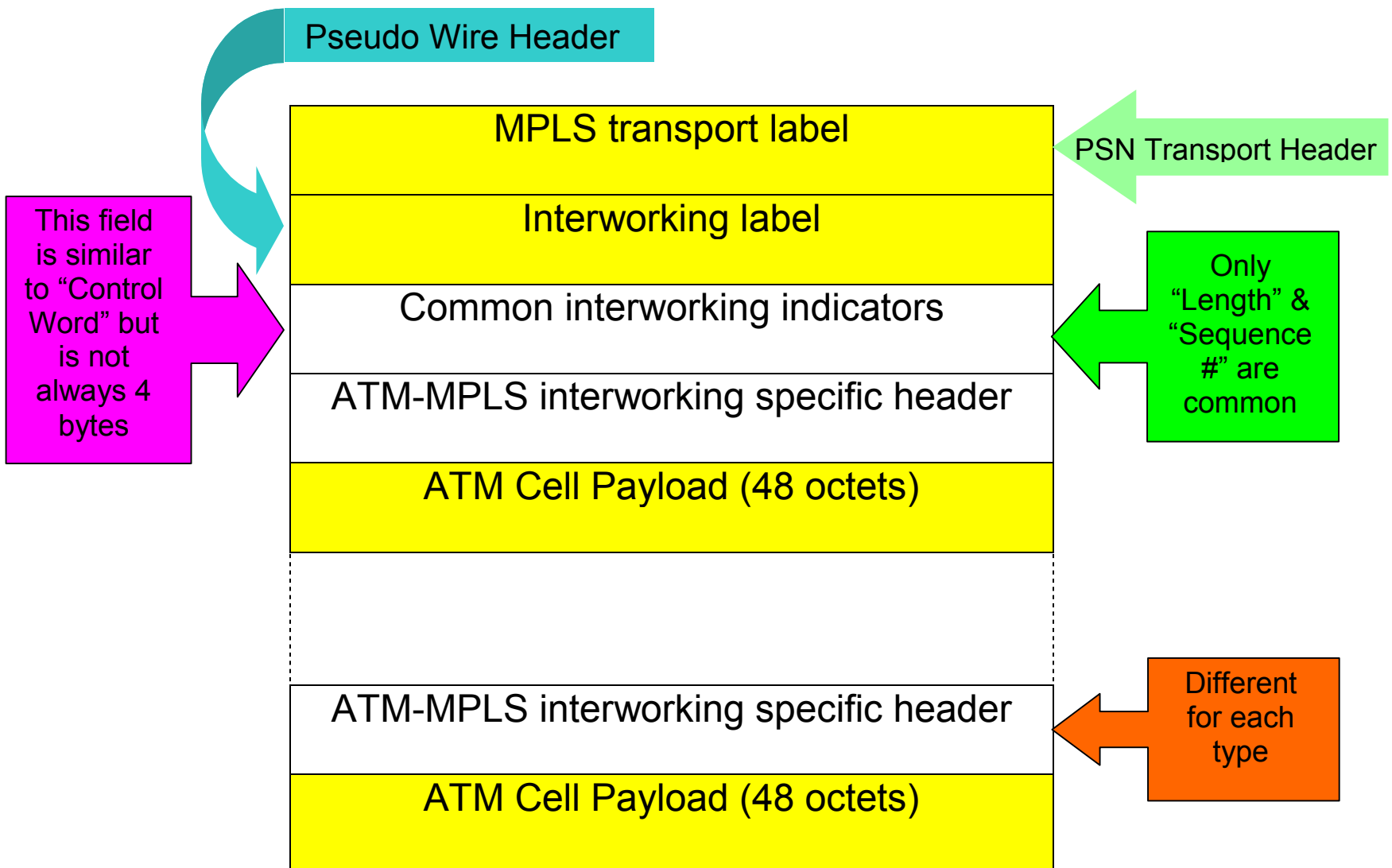
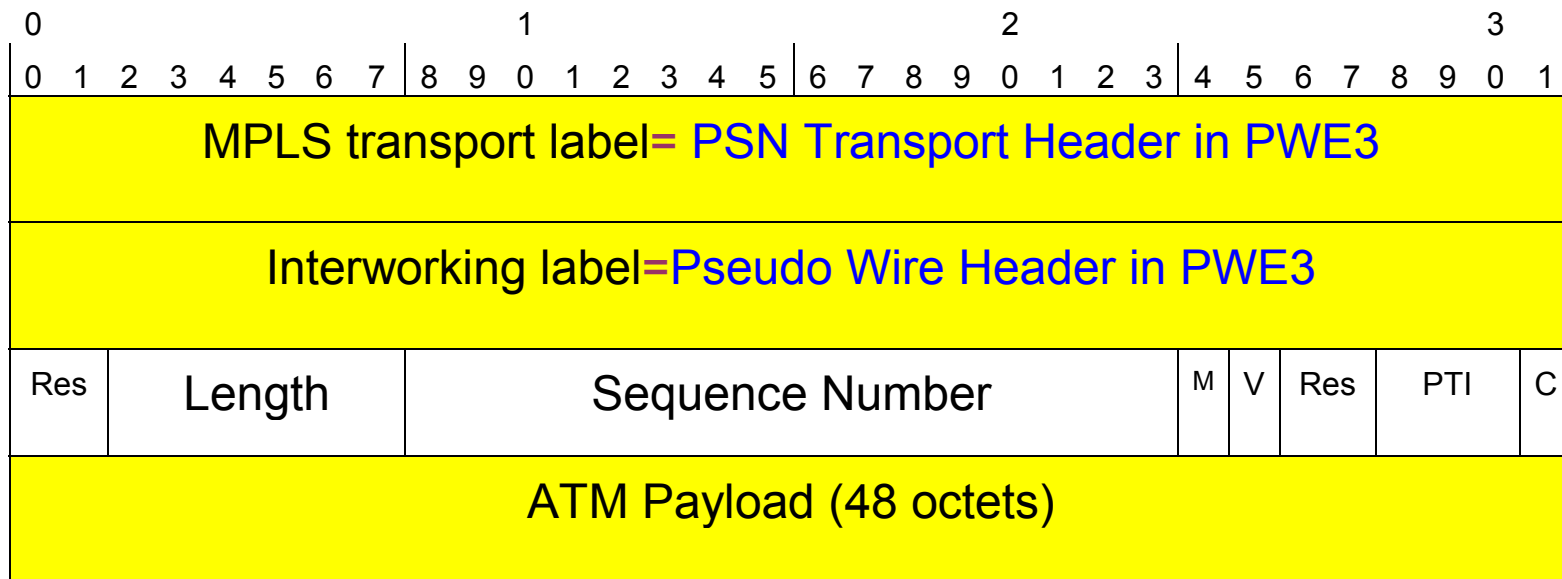


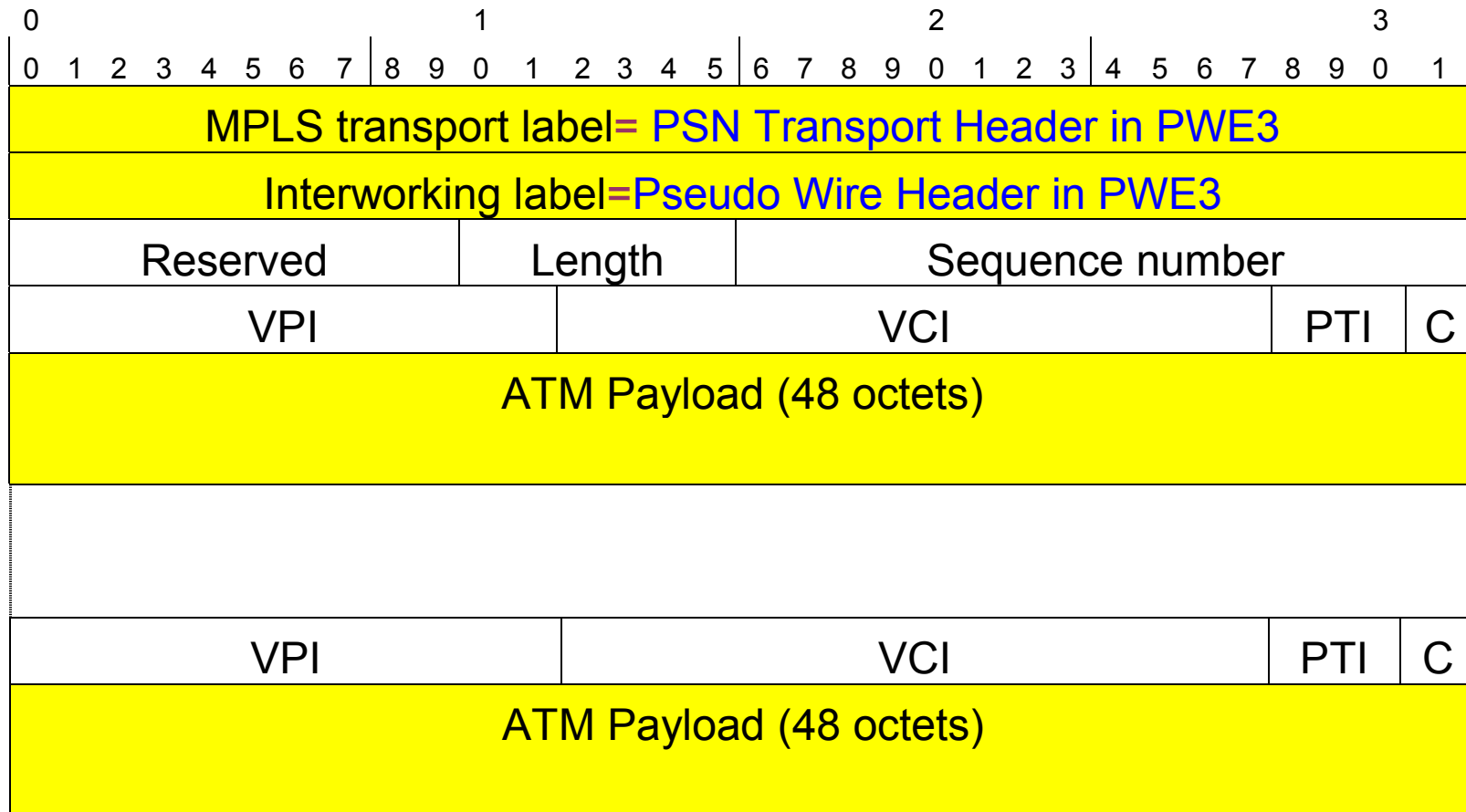
Illustration of N-to-one mode (VCCs & VPCs don't get mixed into one interworking LSP)



ATM-MPLS interworking functional groups (cell mode)



One-to-one mode encapsulation format



N-to-one mode encapsulation format

ITU-T work on Voice Services over MPLS

- Three possible technical approaches are currently under discussion for transport of Voice Services over MPLS
 - Voice over AAL2 over MPLS
 - I.366.2 Voice Trunking Format over MPLS (based on ITU-T Recommendation I.366.2 adapted for MPLS)
 - Voice over IP over MPLS
 - Voice (directly) over MPLS (MPLS Forum IA 1.0)
- Draft Recommendation Y.1261 (formerly Y.vompls) has been just consented (1st step of approval process) in Geneva (2 weeks ago)
 - Provides service requirements and architecture for transport of voice services over MPLS (no choice among possible approaches)
- More progress on Y.vsmpls (formerly Y.protocol X)

All referenced ITU-T documents can be found at:

<http://www.itu.int/itu-t/studygroups/com13/ip/sg13-ietf-ftp.html>

Please note that to have access to this site you should register with ITU-T.