

LSOAPI : Phase 2

Scoping Considerations

- **In Scope for LSOAPI Phase 2:**
 - Ethernet Private Line for single-operator service
 - VLAN support
 - Preserve LAN packet priority tagging (PCP, DSCP) values between customer LANs
 - Class of Service per EVC, including detailed CoS metrics and objectives
 - Ingress Bandwidth Profile
 - EVPL is a 'nice to have' in the information model and APIs if time permits.
- **Out of Scope for LSOAPI Phase 2:**
 - E-LAN and E-Tree and multiple operator services
 - Class of Service names per PCP/DSCP, i.e., multiple CoS Names per EVC
 - Egress Bandwidth Profile. To be included in scope in later phases, when E-LAN is in scope.

L2CP CoS

Choices

- All L2CP Frames per EVC mapped to CoS Name
- Map each specific L2CP protocol to a CoS Name
- Need to choose

SOAM CoS

Per MEF 10.3 : SOAM frame CoS ID to CoS name mapping must mirror data frame CoS ID to CoS name

- For phase 2, we have decided to support CoS per EVC for SOAM frames
- This is what will be applied to SOAM frames as well

Continuing the scoping discussion from last weeks call

Just a few more items to touch upon

Two Dimensions to consider

1. Granularity: BW Profiles per EVC vs. Per Priority Code
 - Phase 2 scope will support CoS per EVC, but not per priority code
 - Probably makes sense to take same approach for Bandwidth Profiles

1. Token Sharing : multiple BW Profile Flows per Profile
 - Enables one flow to borrow bandwidth from another, if available
 - Recommended out of scope for phase 2

Intimately related to BW Profiles

- Allows data frames to be tagged with a color, based on how the frame was admitted to the operator network:
 - GREEN : Frame admitted within in bounds of Committed Information Rate (CIR)
 - YELLOW : Frame exceeded CIR, but admitted because Excess Information Rate tokens were available
- Is support for Frame Coloring important for phase 2?