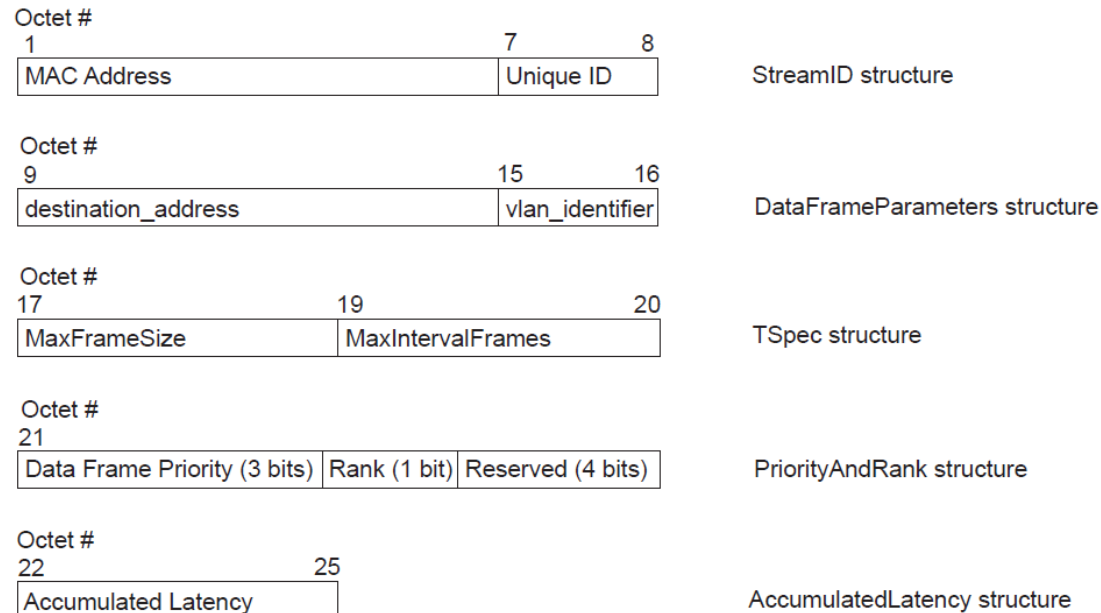


802.1Qcc: Integrating Clause 99 TLVs into MSRP

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TalkerAdvertise (v0 in 802.1Q-2014)

- MRP attribute shall be unchanged during declaration
 - Change in length or value octets is a new attribute
- MSRP uses list of mandatory “structures” per type



- Cannot add optional structure to a type

Proposal for TalkerAdvertiseV1

- New AttributeType (e.g. 5)
 - Specified translation to/from v0
- FirstValue is a list of “sub” TLVs from clause 99
 - TLV can be optional at declaration, but unchanged after
- Example FirstValue:

StreamIdentifier TLV
StreamPacket TLV
StreamRank TLV
TrafficSpecification TLV
NetworkSpecification TLV

Specifying TLVs in Clause 99

- YANG is a good fit for clause 99 (abstract model)
- For TLV, protocol vs clause 99 question has two parts

	Octet	Length
Type (11)	1	1
Length (8)	2	1
EUI48	3	6
UniqueID	9	2

Figure 99-8 — Stream Identifier TLV

Type and Length:
SRP doesn't use sub-TLVs;
- Clause 99 works there
IS-IS & RSVP use sub-TLVs;
- Own type enumeration
- 2-octet Type/Length

Value (elements):
Arguably best in clause 99;
- Ensure consistency
- Helps protocol independent APIs

Essentially Three Options

1. Type/Length and Value in clause 99
 - This exists in Qcc D0.3
2. Value in clause 99, Type/Length in each protocol
 - E.g. MSRP sub-TLV type numbers in clause 35, not 99
 - Editor recommends this for next Qcc draft
3. Protocol decides Type/Length and Value
 - Clause 99 limited to YANG only
 - Value is different for each User/Network protocol

Thank You