

Update on IEEE 802.1Qcn (VDP extension for NVO3)

Yizhou Li

Paul Bottorff

Pat Thaler

Summary

- IEEE 802.1Qcn (VDP extension to support NVO3) was started as per Split-NVE Control Plane Requirements([draft-ietf-nvo3-hpvr2nve-cp-req](#)) from 2015

What Qcn has extended

- VDP (protocol to exchange info between tNVE & nNVE)
 - Allow IPv4/IPv6 addresses to be exchanged, together with other info such as VLAN ID, MAC, Group ID (i.e. VNI)
 - Allow unicast MAC to be used as destination to transport VDP
 - Clear indication on migrated VM or new started VM
 - Clarify the state can be rolled back from associate to pre-associate state
- EVB TLV(exchanged via LLDP for VDP capability/parameter settings)
 - Define new NVO3 mode. Define new NVE Role in this mode. Define new IPv4/IPv6 capability to be exchanged.
 - Turn on GroupID (VNI) and turn off ReflectiveRelay by default
- Relevant conformance considerations

Next Steps

1. IEEE 802.1DCB approves to start task group ballot in the meeting week. Appreciate review and comments from NVO3 folks.
2. IETF requirement document last call.
3. Though the existing management for VDP is an SNMP MIB, it would be more useful to define YANG model for VDP extension for NVO3. We will need a volunteer to help with YANG to make it happen. Please talk to us if you are interested.