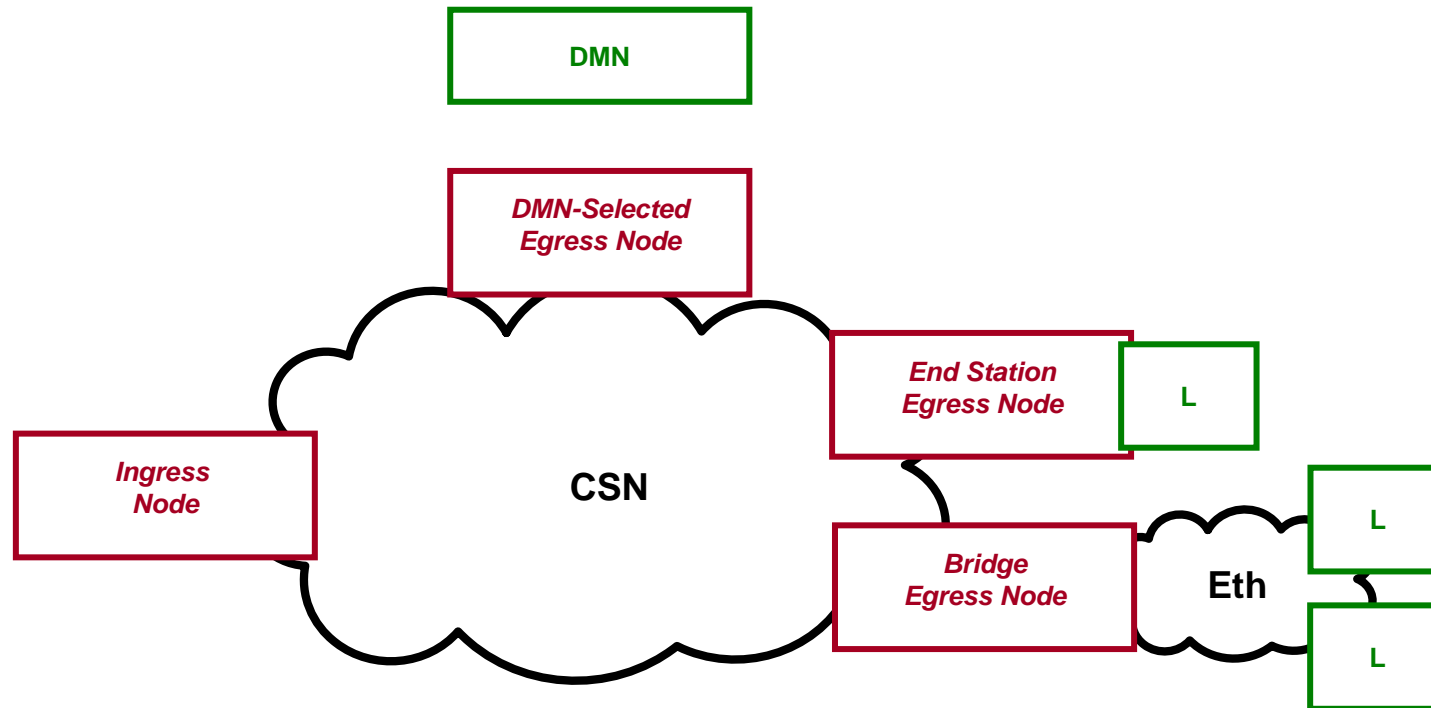# 802.1Qat – MSRPDU Addressing within the CSN

Philippe Klein
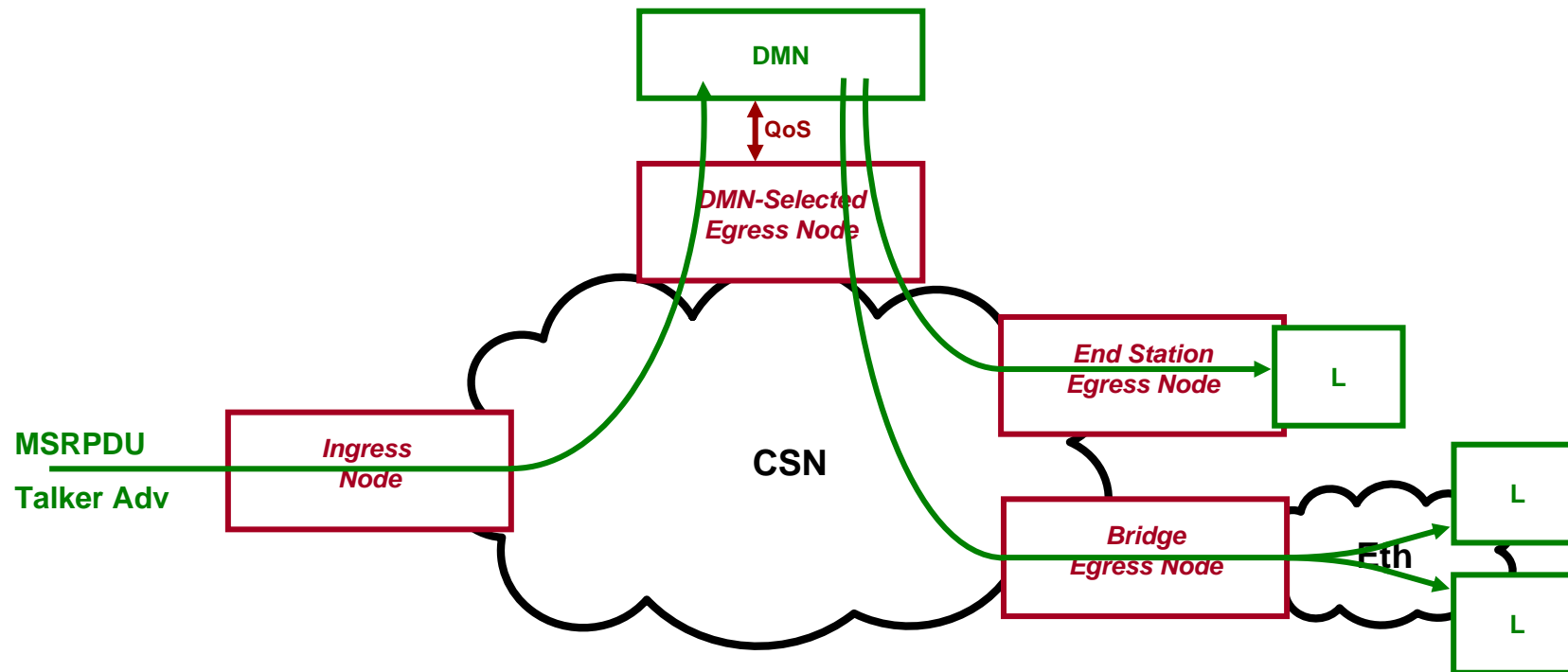
IEEE Plenary Meeting – Mar 10, Orlando

at-phkl-csn-addr-1003-v01

Talker Advertise –The Ball Park
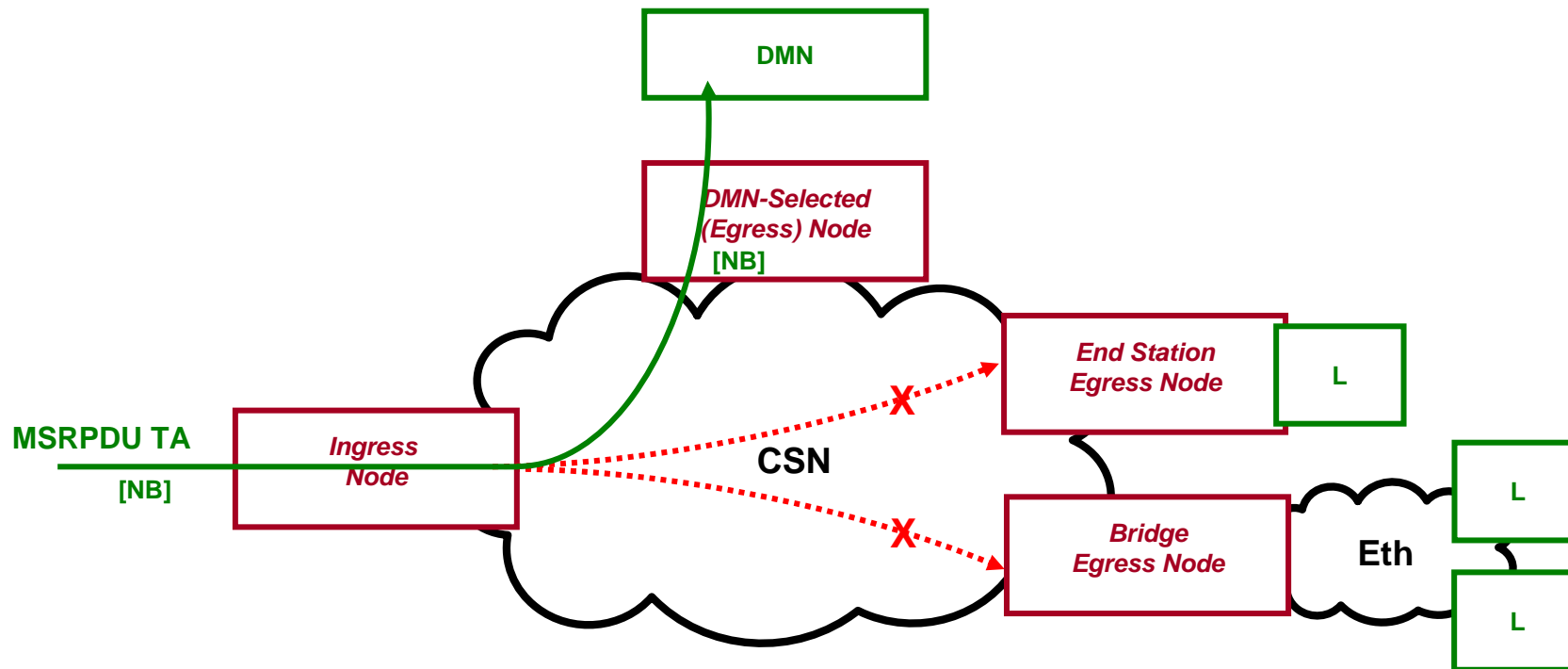
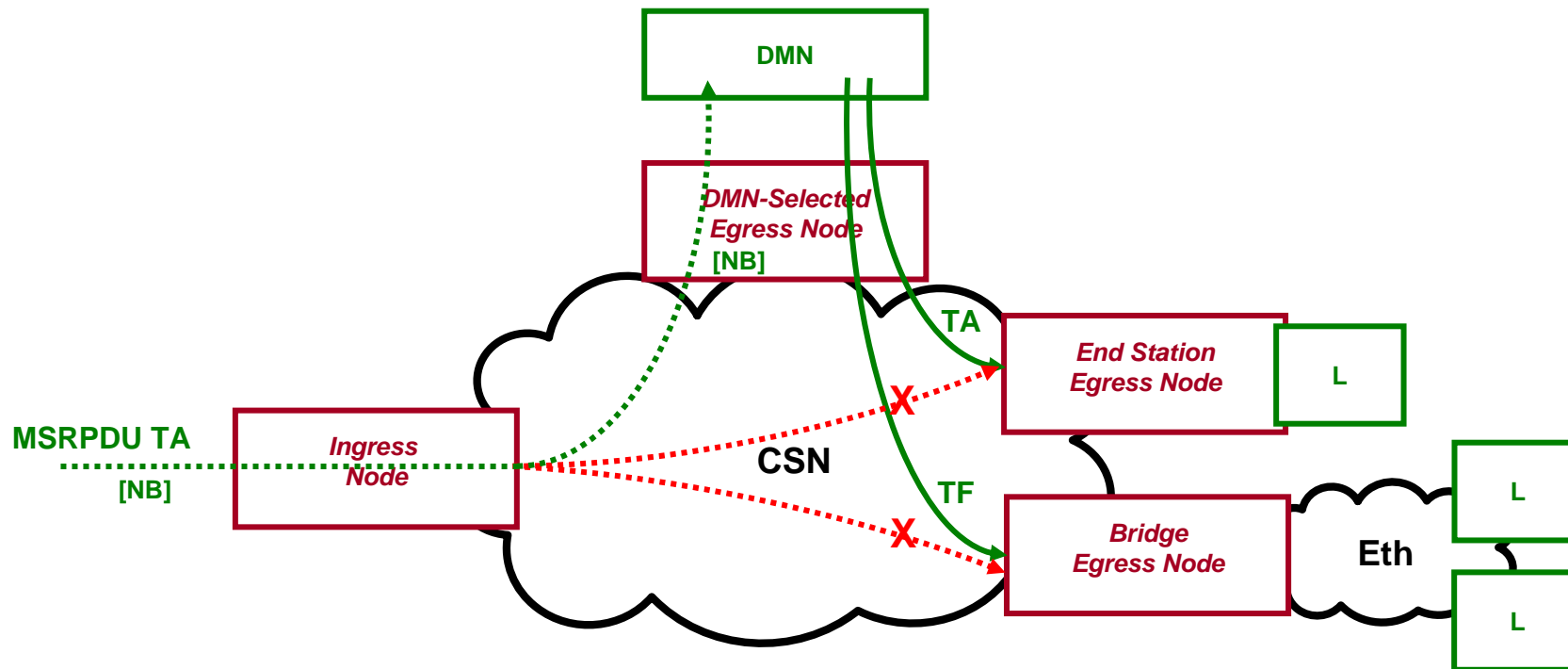# *Talker Advertise –The DMN Scheme*

1. Ingress MSRPDUs are transparently transported by the CSN to the DMN
2. DMN queries the BW of the different links of the CSN
3. DMN forwards Talker Adv/Failed to each egress node based its link's BW resource
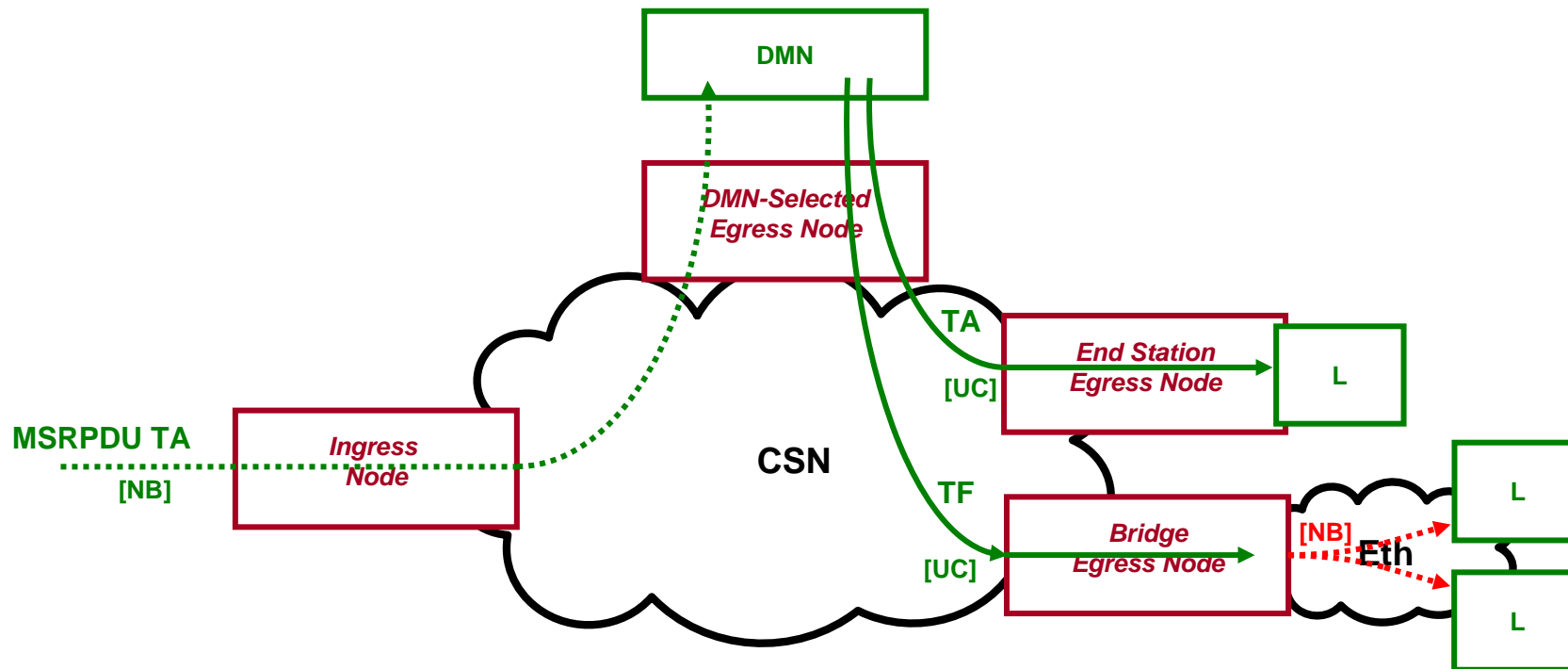
Talker Advertise

- DMN Selected Node is the **only** node registered to the *Individual LAN Scope group address , Nearest Bridge group address [01-80-C2-00-00-0E]*

Talker Advertise –The Issue (1)

- DMN Selected Node only is registered to the NB group address
- So DMN originated MSRPDU are individually Unicasted to each egress nodes

Talker Advertise –The Issue (2)

- DMN's originated MSRPDU could be UC to End Station Egress node
- but not to Bridge ENs which need to MC the advertisements to the bridged Listeners

Solution #1

- DMN Selected CSN Node is the only node registered to the NB group address within the CSN
- DMN's originated MSRPDU are mapped to egress nodes **with their MAC DA set to the egress node UC address**
- **A "bridge" egress node reinserts the NB instead of the UC address in the MSRPDU before delivering it to its non-CSN port**

  Note: Although, PTP msg uses the same NB group address that MSRDPU, they are handled by the CSN ingress nodes (and not transparently transported over the CSN)

- Pro: Network agnostic
- Cons: Protocol specific

Solution #2

- DMN Selected CSN Node is the only node registered to the NB group address within the CSN
- DMN's originated MSRPDU are mapped to egress nodes **with their MAC DA set to the group address**

- Pro: More generic
- Cons: Increase the dependency on the CSN network *(DMN selected CSN node needs to map MAC MC mgs to CSN unicast)*

Call for Actions

● Which solution #1 / #2 should be selected ?

Thank you