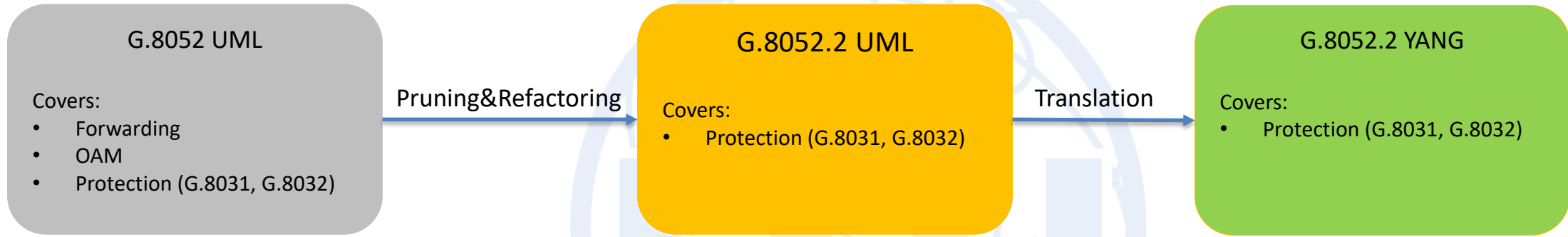




Overview of G.8052.2 and its connection to the IEEE YANG

Italo Busi (Huawei)

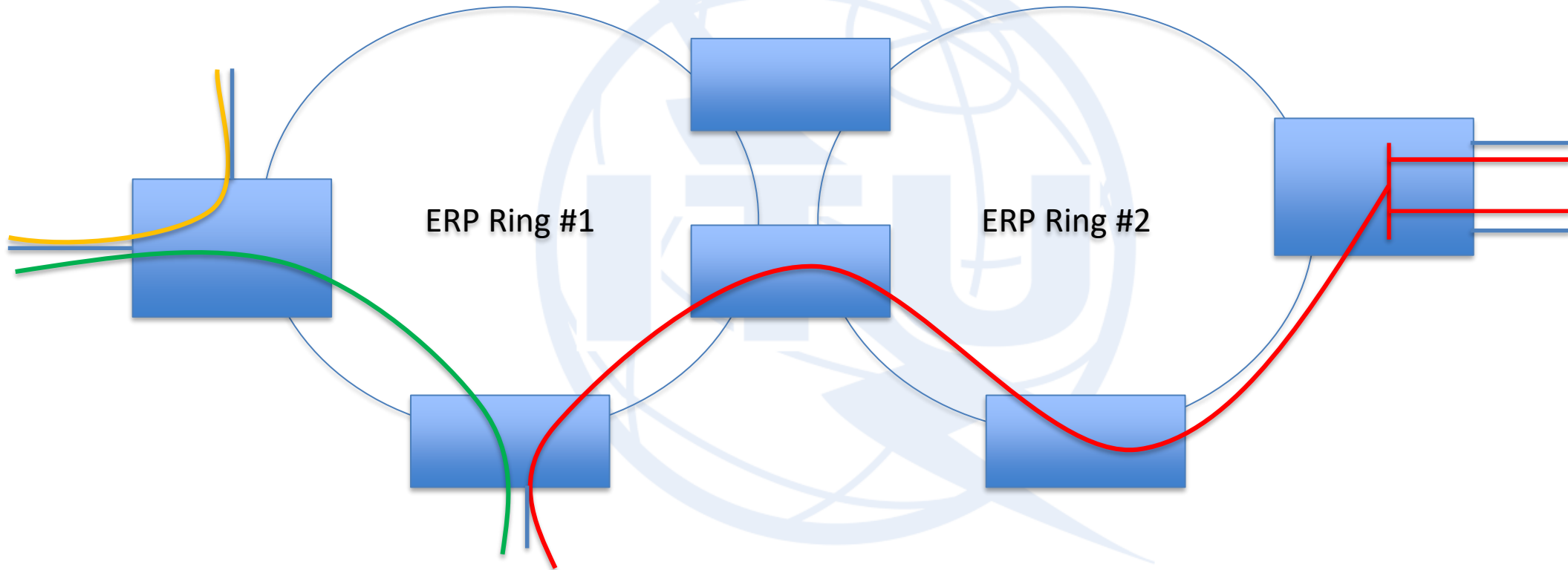
Introduction to G.8052.2



Questions (from C1425 of July 2019):

- How is forwarding configuration performed?
- Can IEEE 802.1Qcp YANG model be used for forwarding configuration?
- What would then be the relationship between ITU-T G.8052.2 and IEEE 802.1Qcp YANG models?

ERP (G.8032) Examples

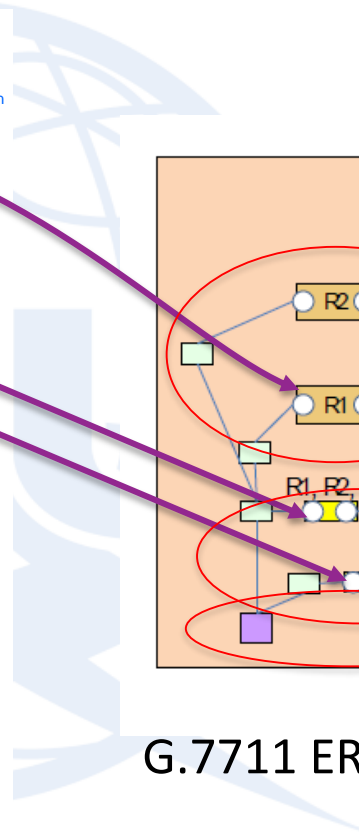


Questions:

- Can we use IEEE 802.1Qcp YANG to configure VLAN-based forwarding?

Note that ERP protection can be configured either during VLAN setup or enabled/disabled after VLAN has been setup

and G.7711 ERI



G.8052.2
Objects?

802.1Qcp
Bridge Component?

G.7711 ERP Base Model

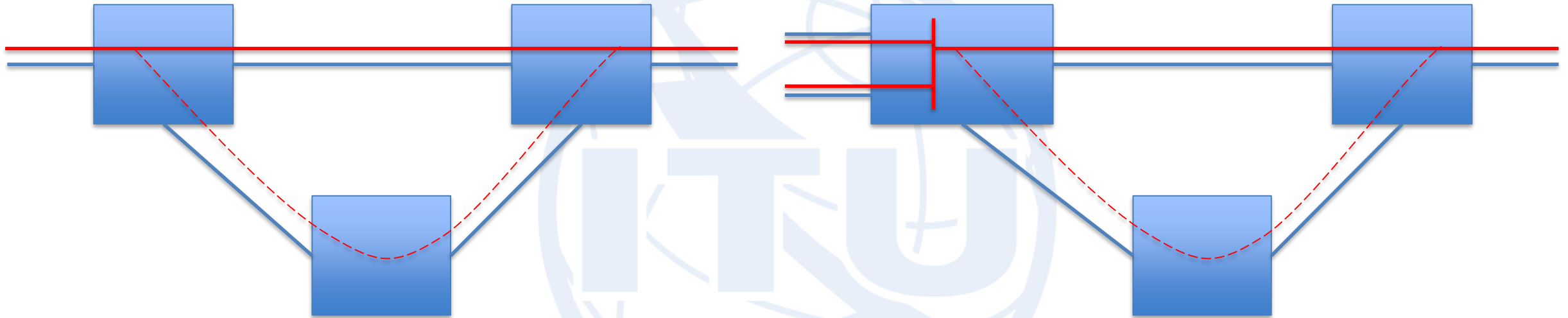
802.1Qcp
Bridge Ports?



NOKIA

G.8052 ERP Function Model

ELP (G.8031) Examples



Port-based or VLAN-based forwarding (p2p)

VLAN-based forwarding (mp)

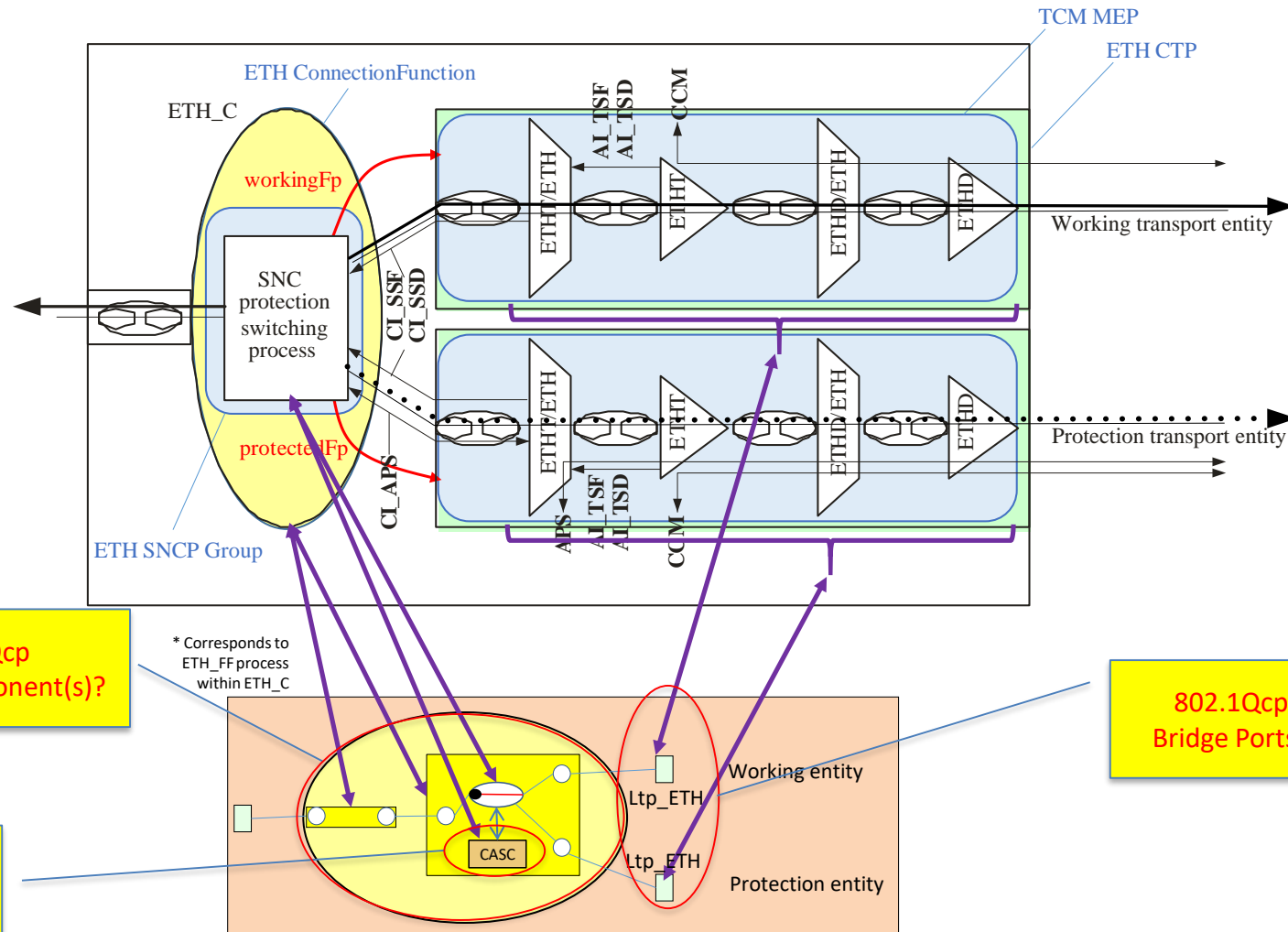
Questions:

- Can we use IEEE 802.1Qcp YANG to configure port-based or VLAN-based forwarding?

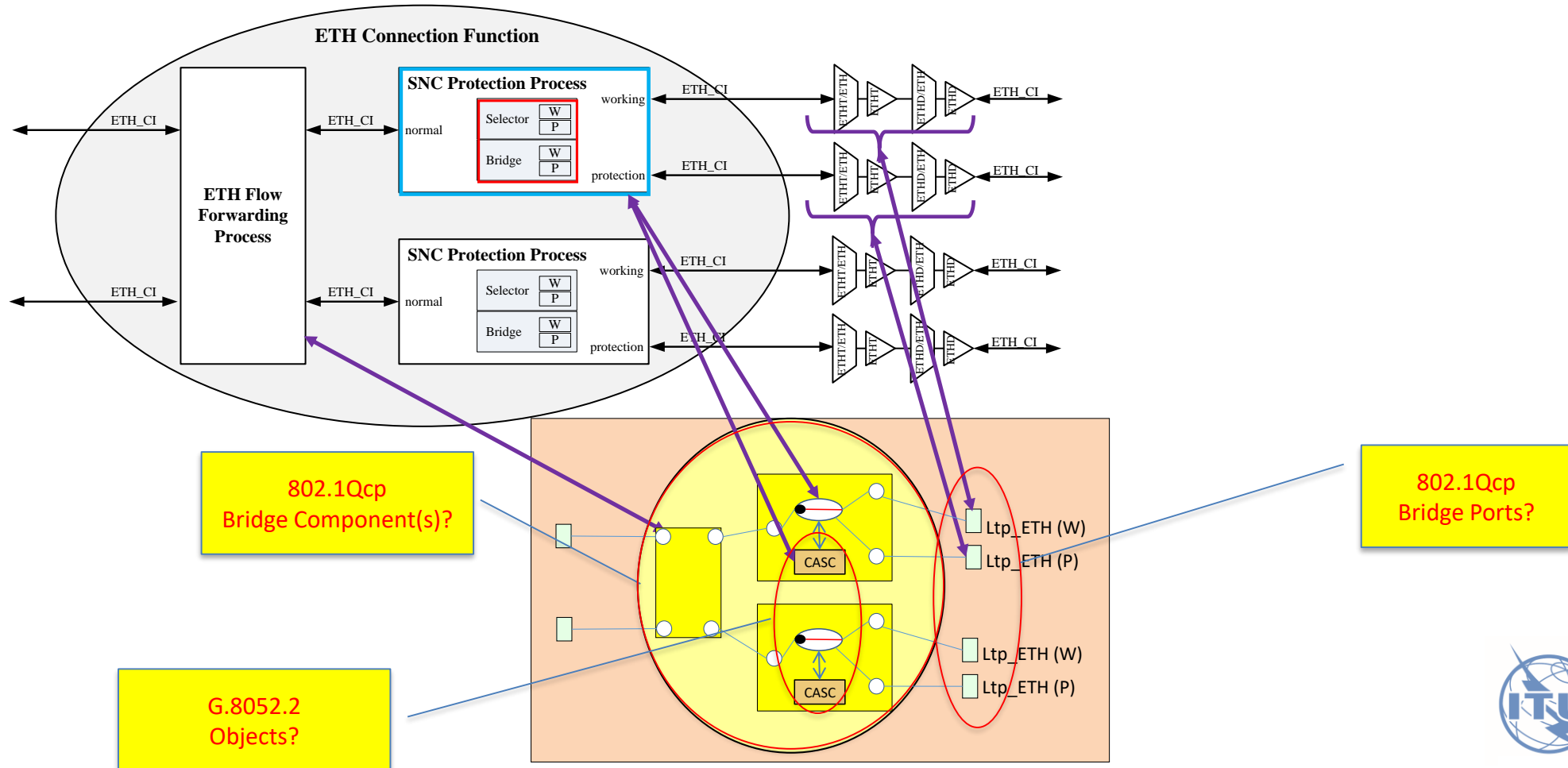
Note that ELP protection can be configured either during VLAN/port-forwarding setup or enabled/disabled after VLAN/port-forwarding has been setup

Initial analysis: C1425 (port-based forwarding) and C1956 (VLAN-based forwarding)

G.8052 and G.7711 ELP Model - 1



G.8052 and G.7711 ELP Model - 2



Conclusions

- Continue IEEE/ITU-T coordination to understand
 - How 802.1Qcp could be used to configure ELP/ERP forwarding
 - The relationship between G.8052.2 and 802.1Qcp YANG models
 - How G.8052 UML can be properly pruned&refactored

