Dealing with 802.1CB and Out-of-Order PDUs
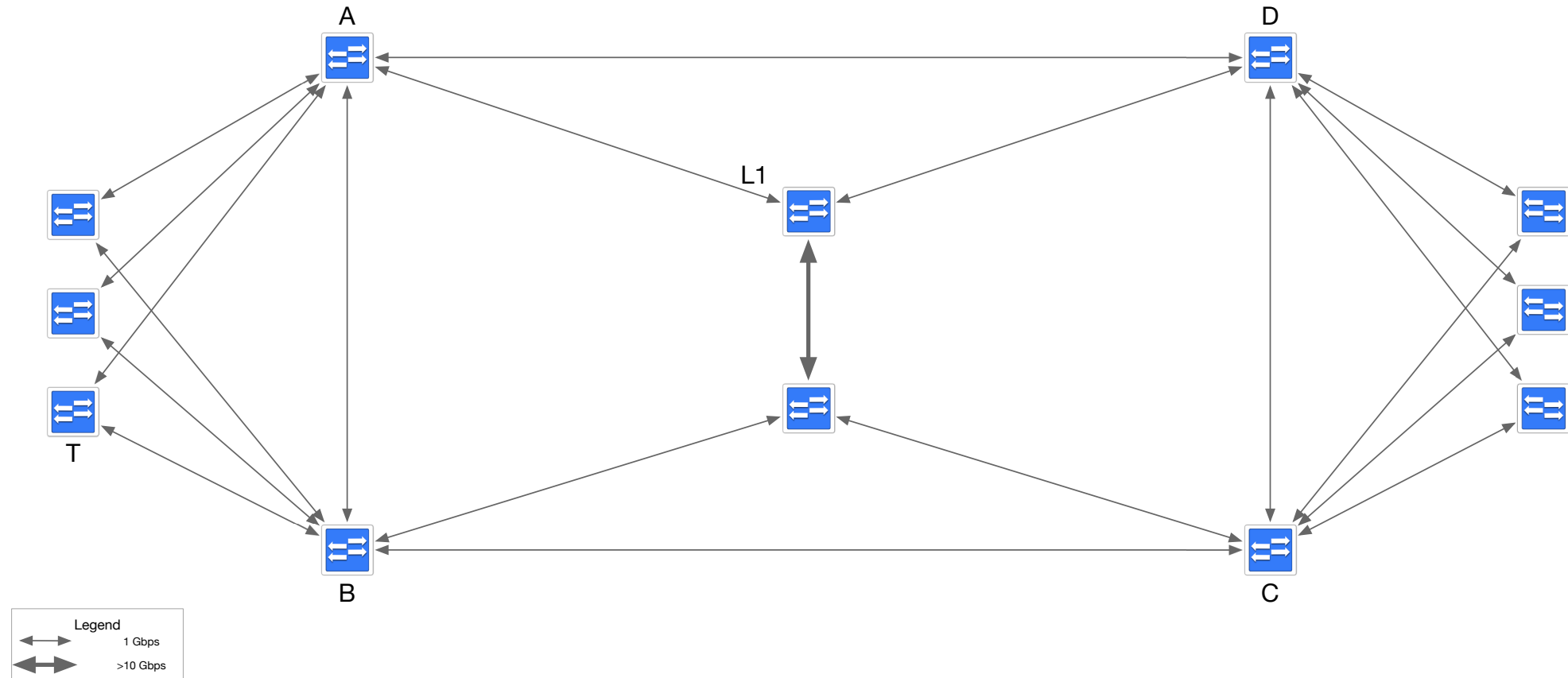
Gordon Bechtel

2020-05-19
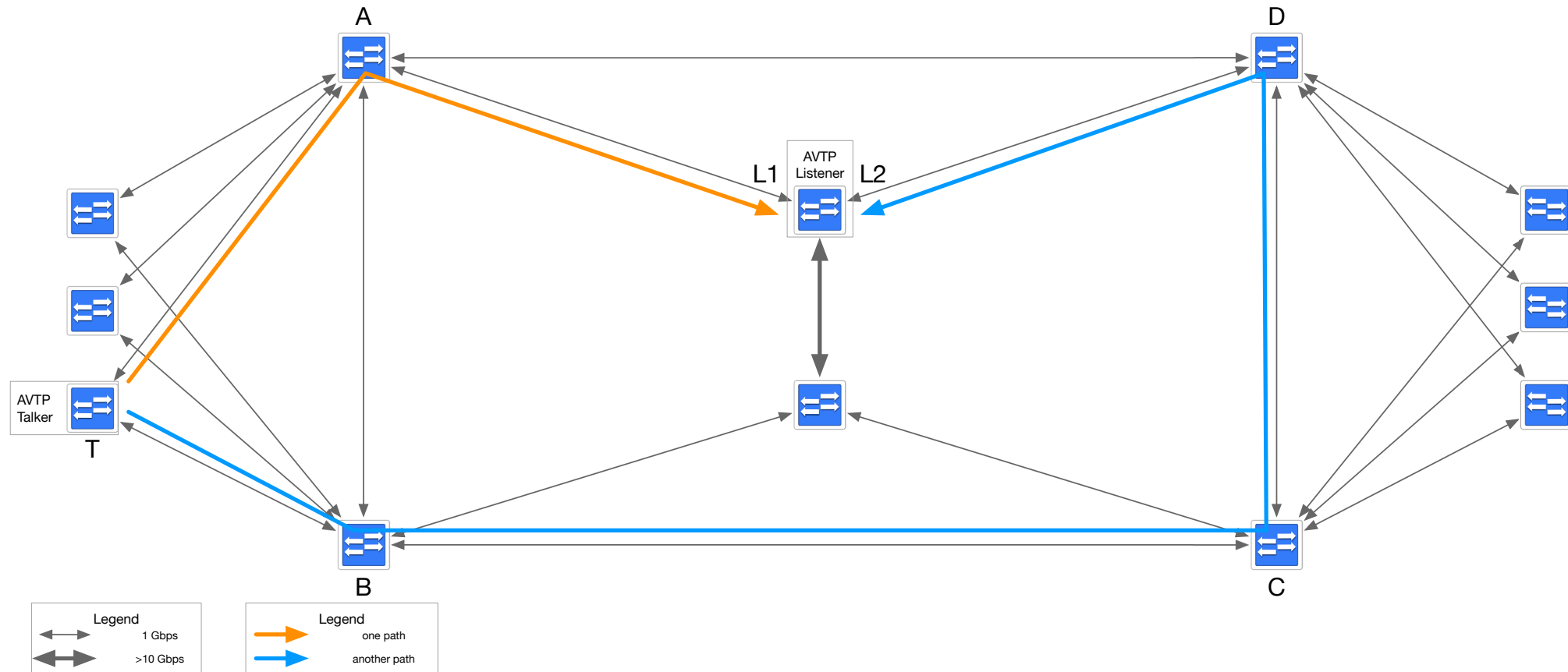
Revision History

Revision	Made By	Date	Description
0.1	Gordon Bechtel	2020-05-19	Initial Release

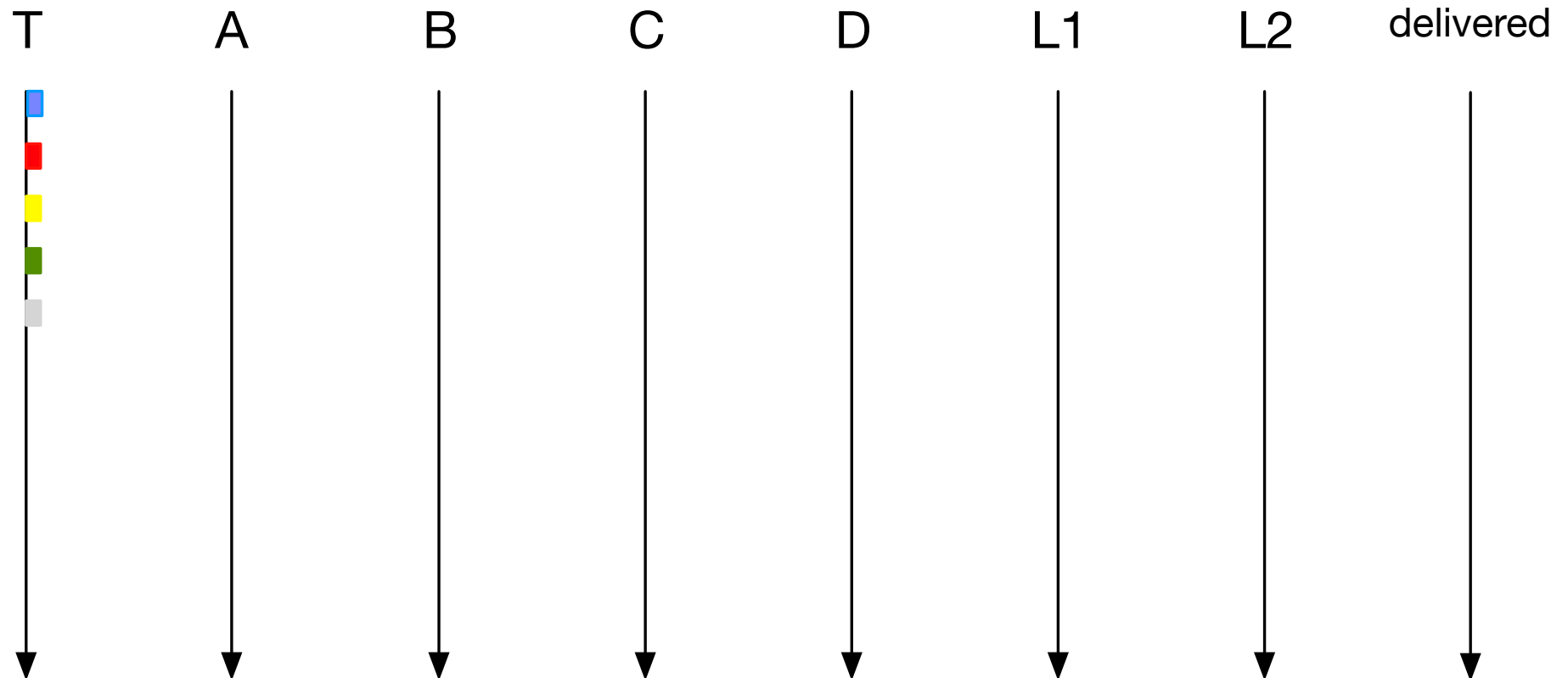# Example Topology

Example of Redundant Paths

Example PDUs and Timing on Network

T   A   B   C   D   L1   L2   delivered
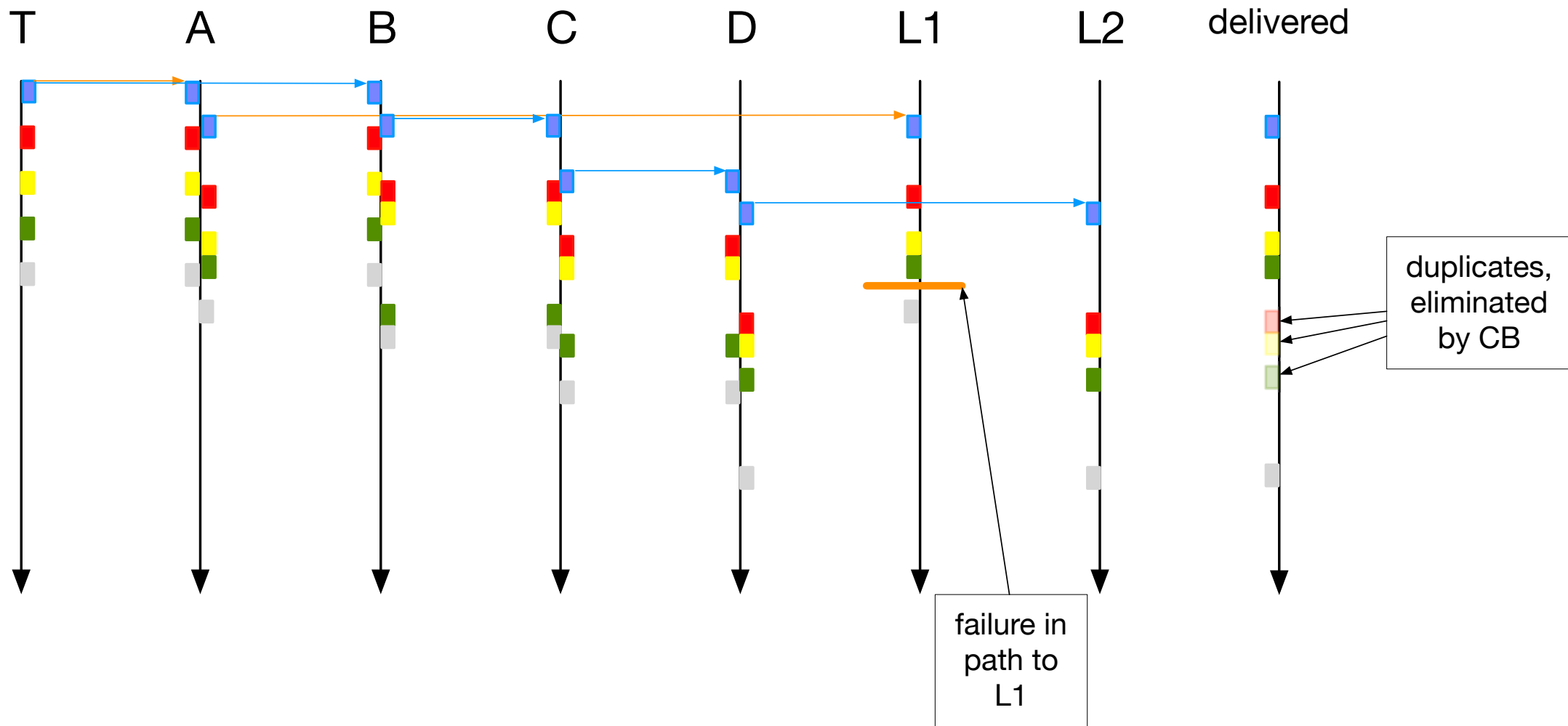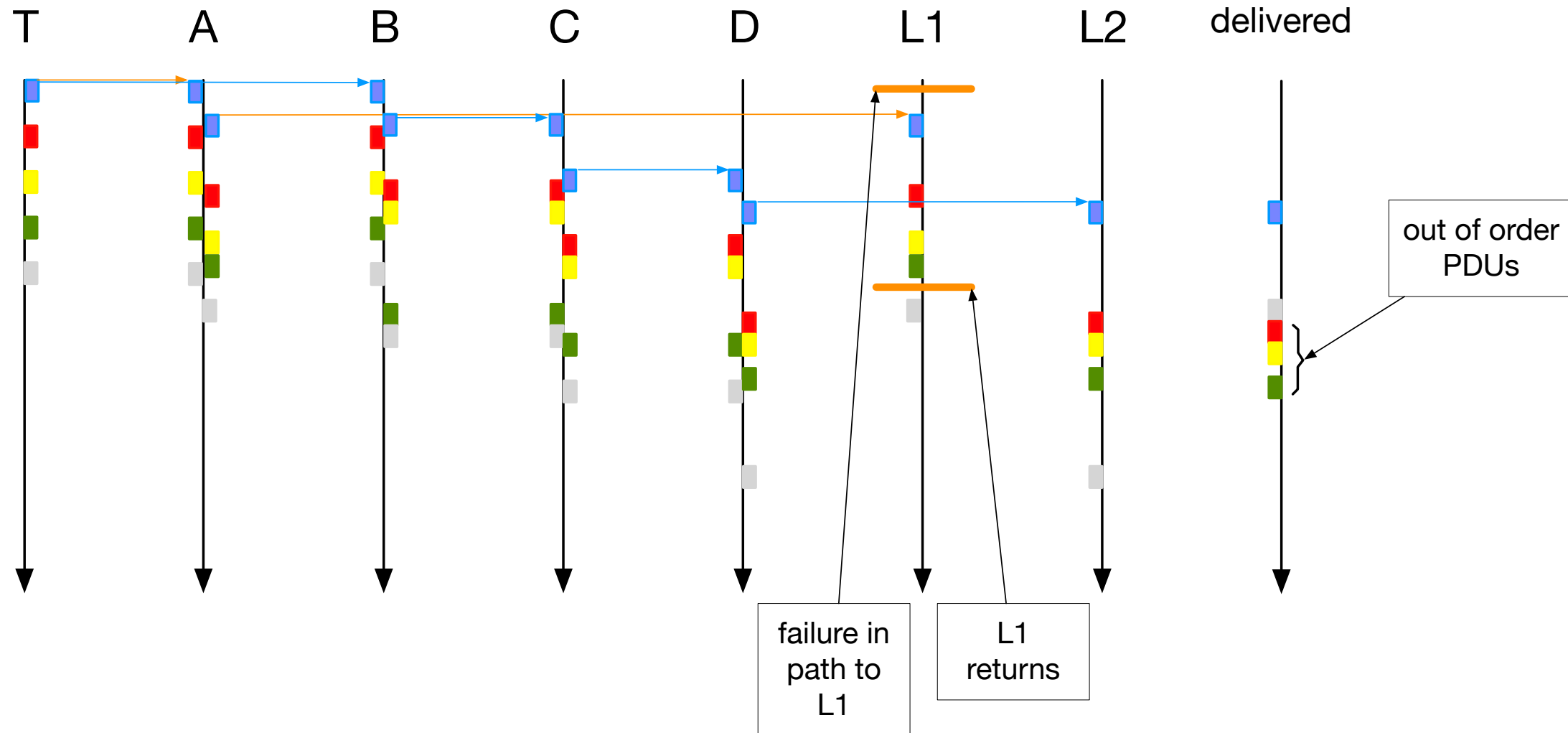
Orange Path
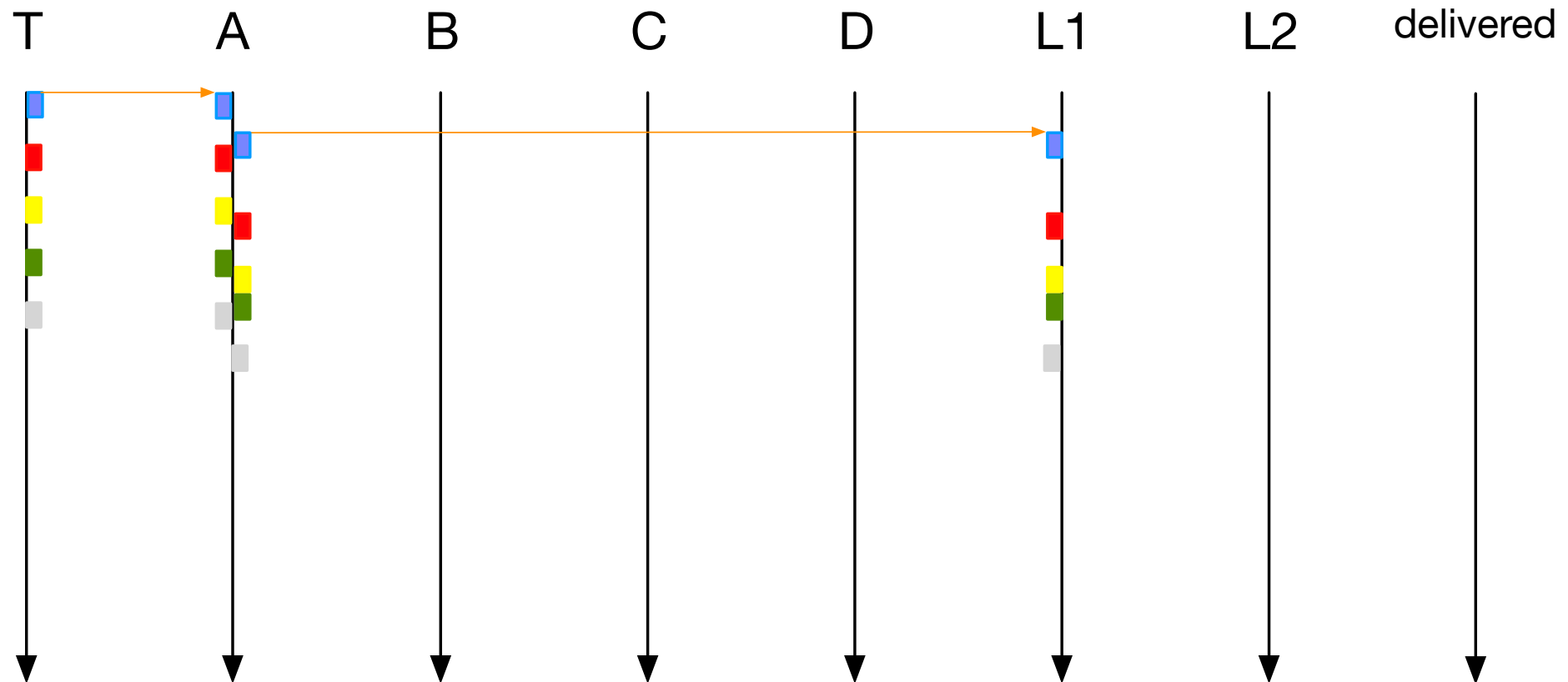
Blue Path

Delivery: Short Path Failure

T   A   B   C   D   L1   L2   delivered

duplicates, eliminated by CB

failure in path to L1
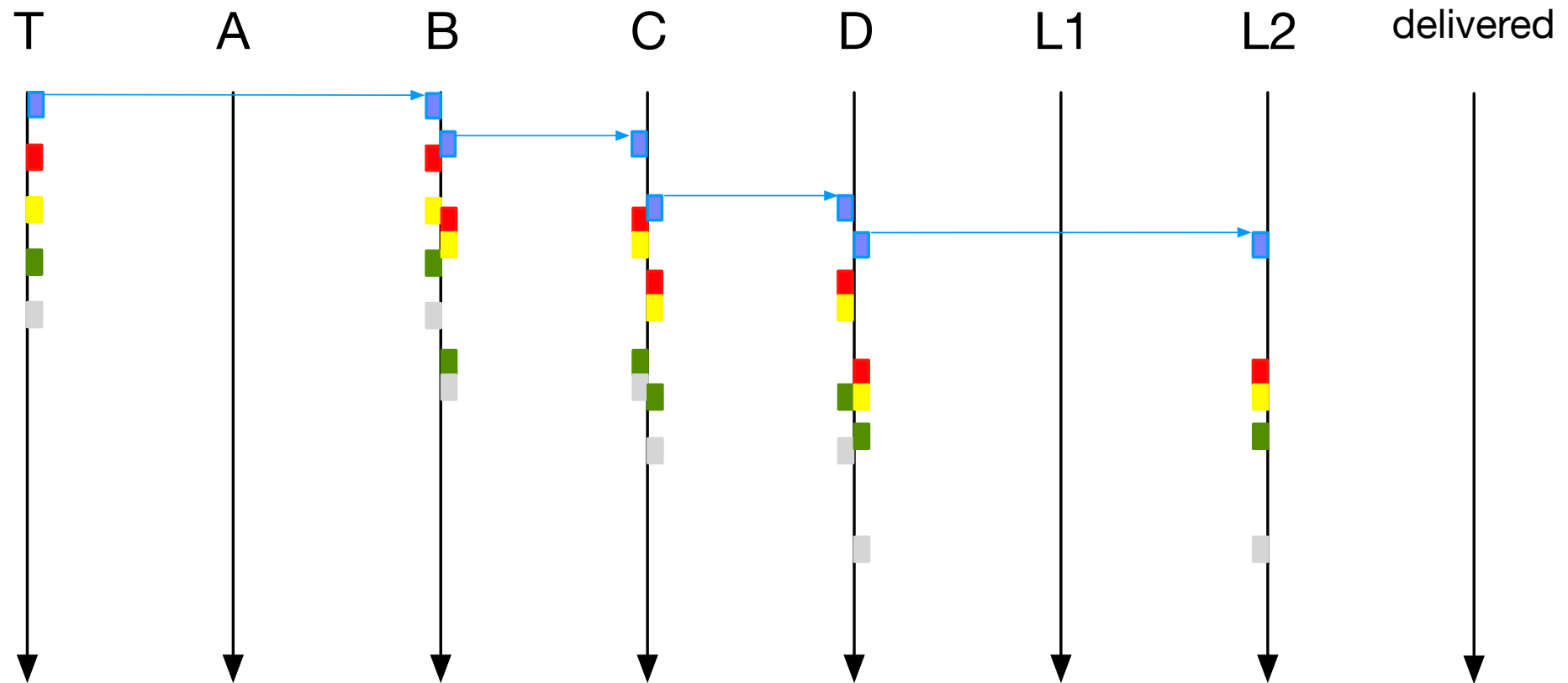
Delivery: Short Path Fails and Returns

out of order PDUs

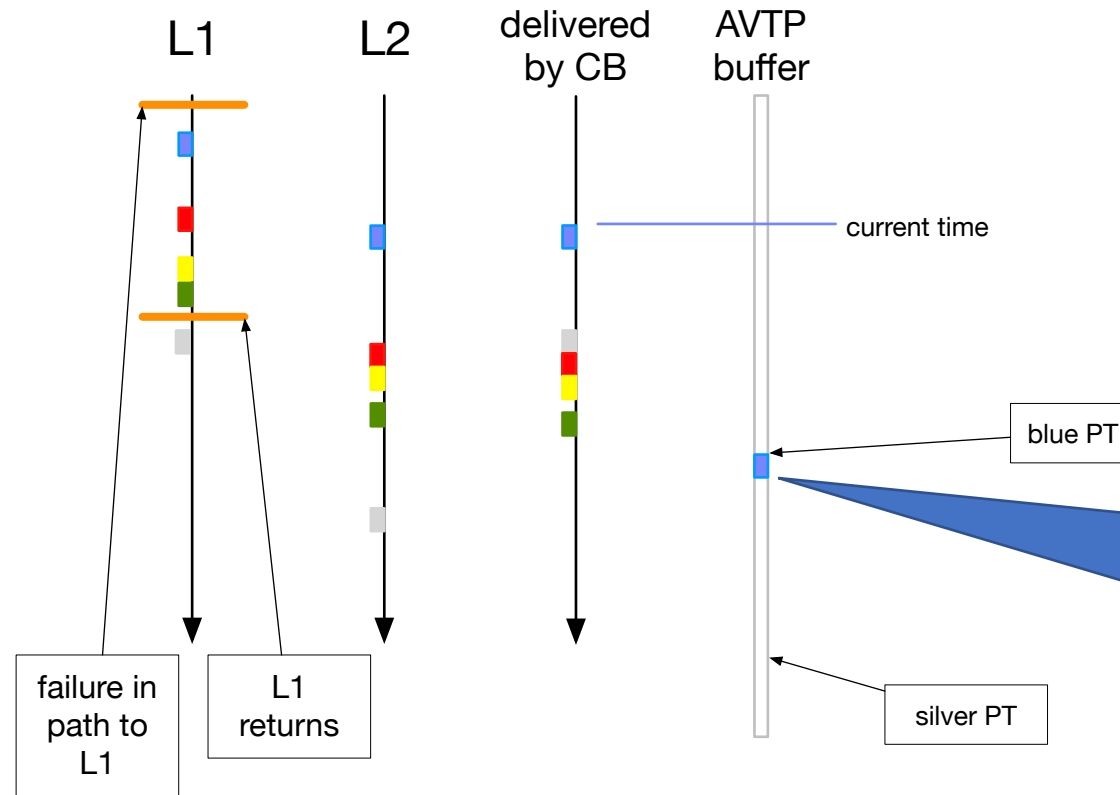failure in path to L1

L1 returns

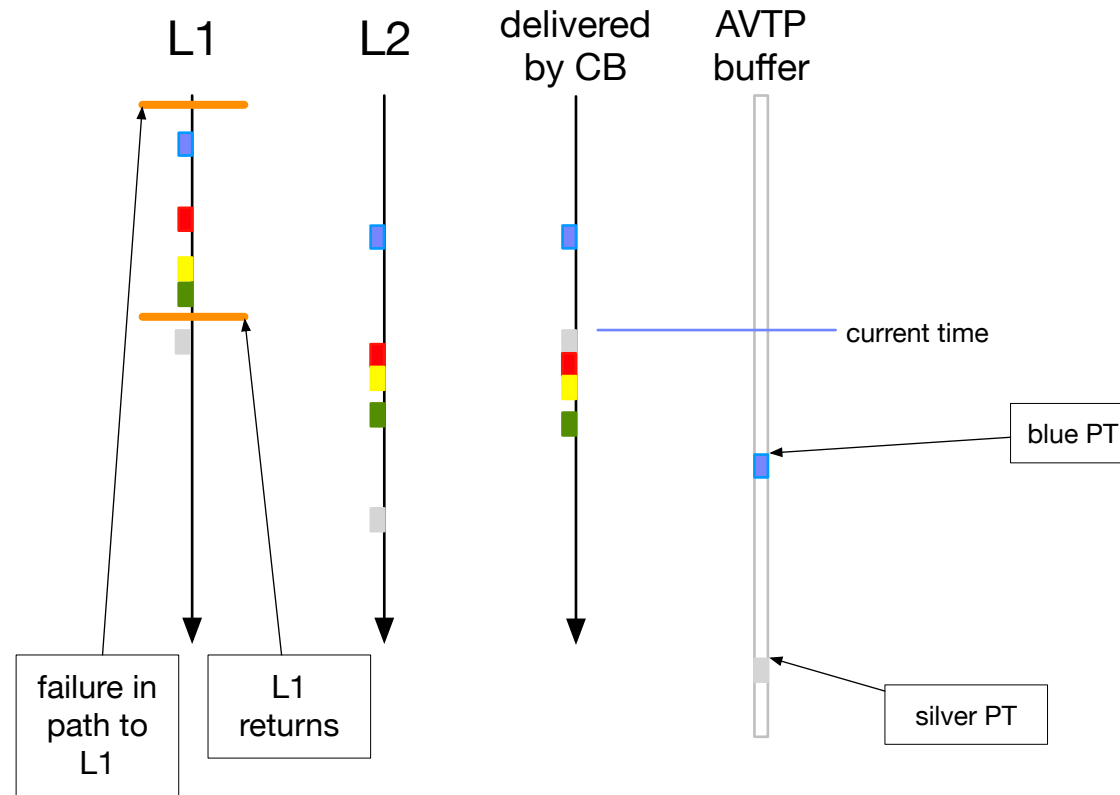# AVTP Has the Tools to Handle the Problem
(With Some New Processing)
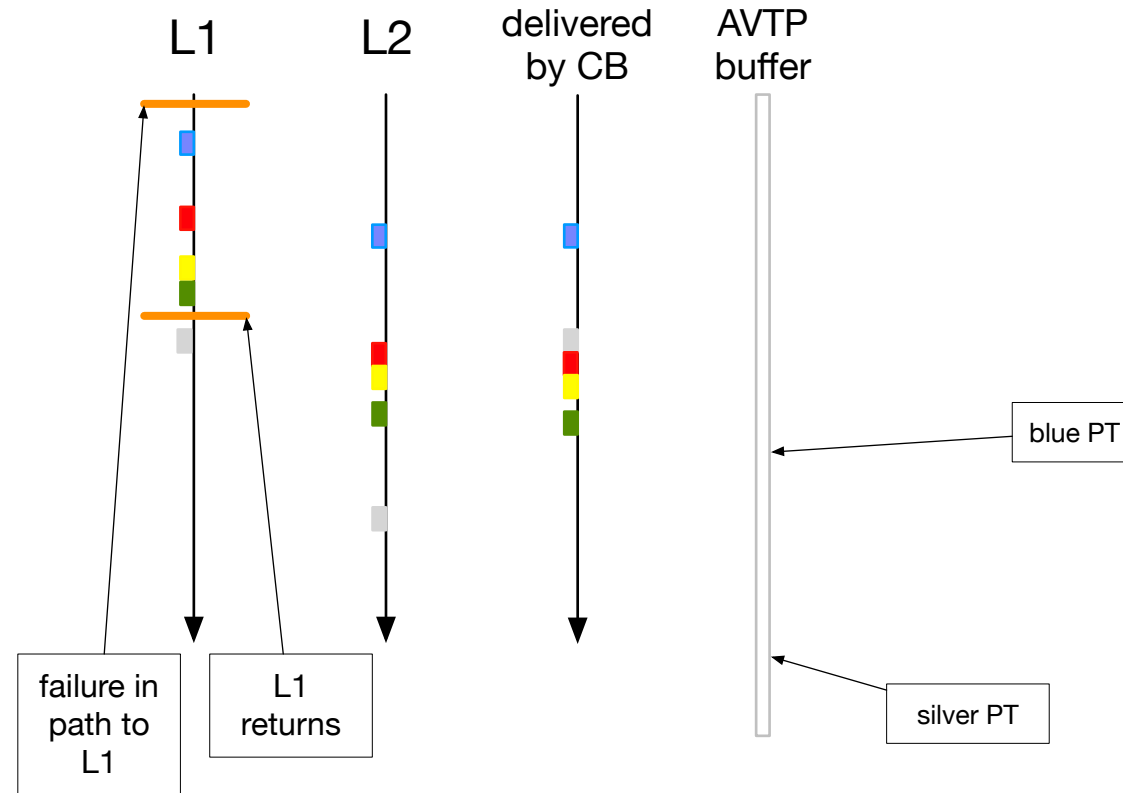
Put Blue PDU in it's "Reserved" Spot in Buffer

Same for Silver, even though it's Out-of-Order
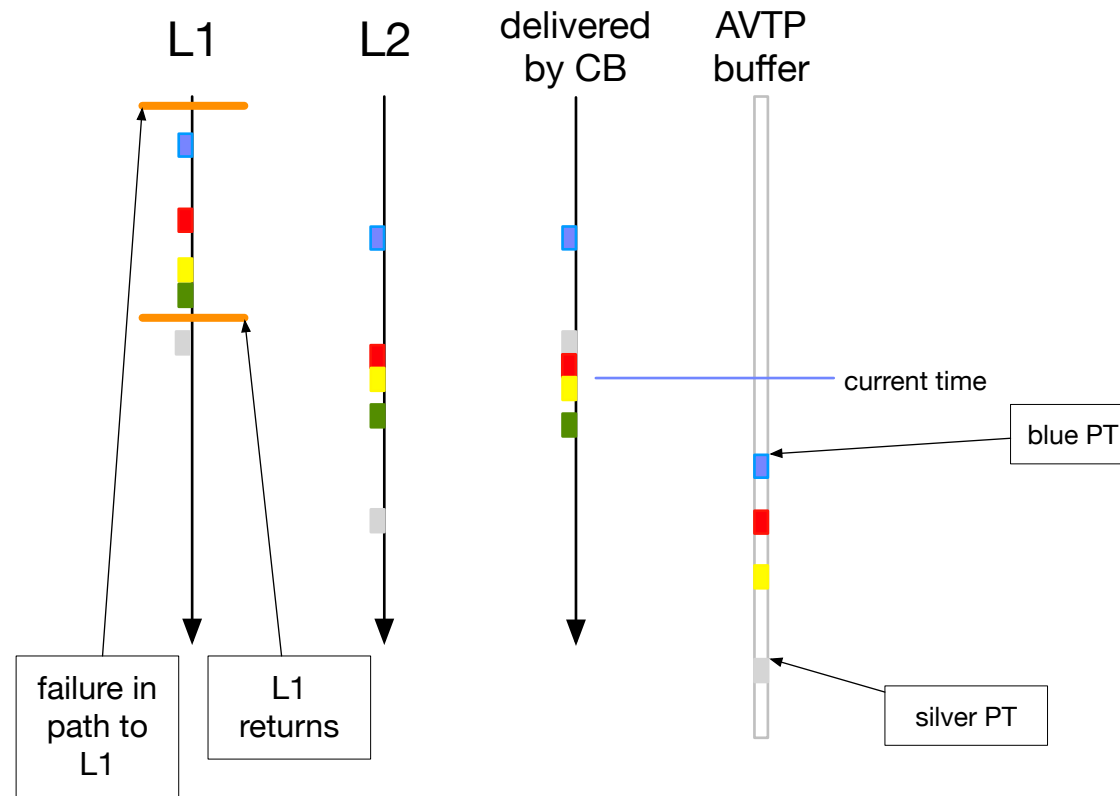
L1   L2   delivered by CB   AVTP buffer

current time

blue PT

silver PT

failure in path to L1

L1 returns

Same for the Red PDU

Dealing with 802.1CB and Out-of-Order PDUs
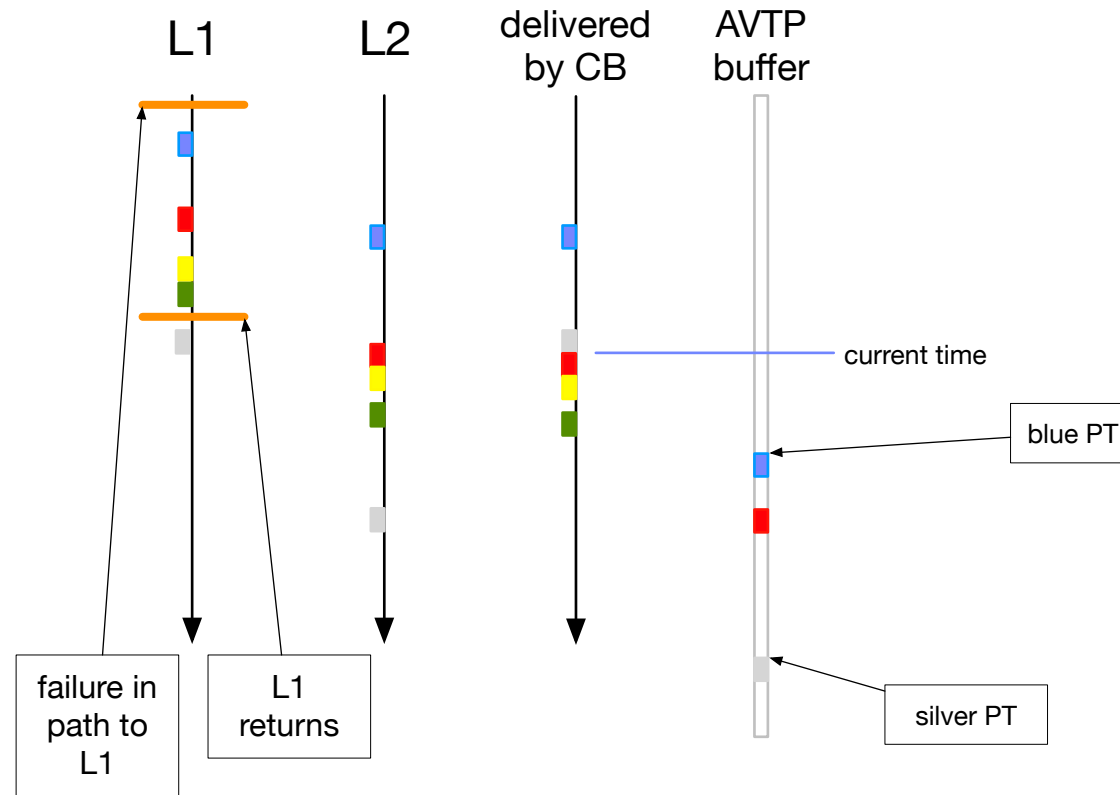
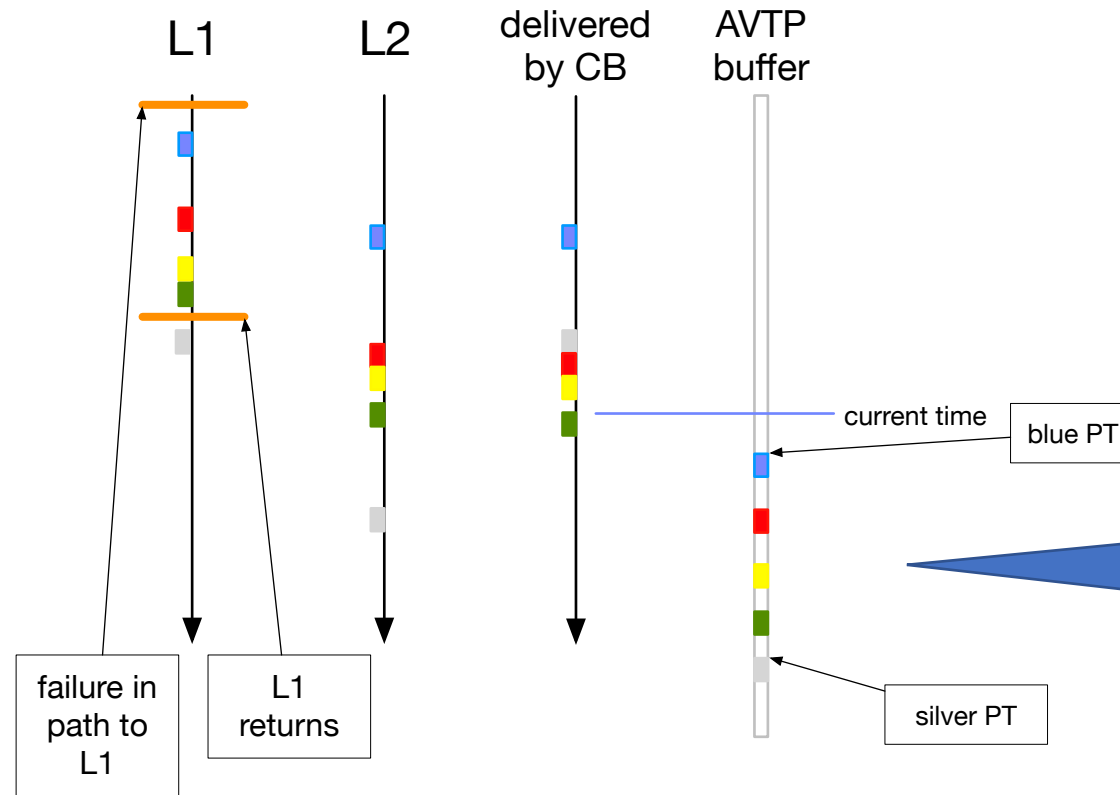# ...And Yellow

…And Finally Green

The PDUs are back in order and on-time for distribution to the listener application.