Extension proposal for P802.1CBdb chapter “Stream identification”

Questions related to
IEEE802.1Q chapter “Flow classification and metering”

extension proposal for

P802.1CBdb chapter “Stream identification”

Requirements from IEC/IEEE 60802 use case document

http://www.ieee802.org/1/files/public/docs2018/60802-industrial-use-cases-0918-v13.pdf

Günter Steindl

Siemens AG

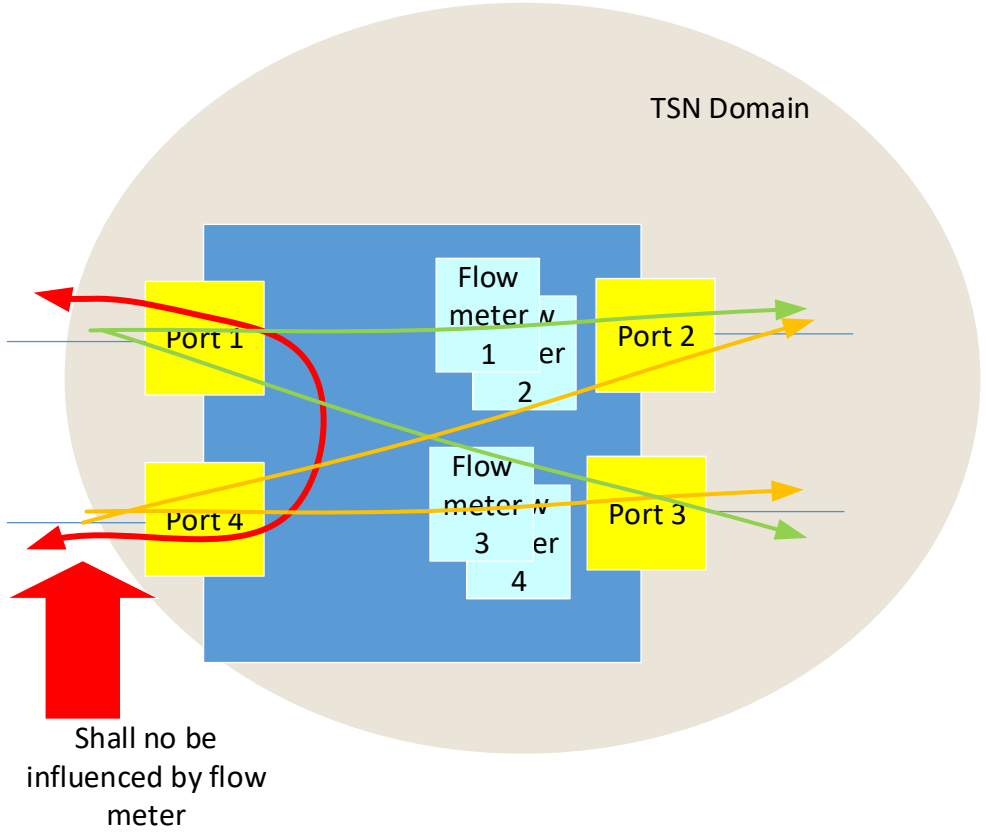
What's the assumption?

- **Flow meter 1** (green arrow) only measures the frames from port 1 to port 2 and **flow meter 3** (green arrow) only measures the frames from port 1 to port 3

- **Flow meter 2** (orange arrow) only measures the frames from port 4 to port 2 and **flow meter 4** (green arrow) only measures the frames from port 4 to port 3

- Frames from port 1 to port 4 (red arrow) **shall not be** influenced by flow meters

-> **How can this be solved?**



Proposal for P802.1CBdb extension…

Flow metering for TSN domain protection (TSN domain boundary port feature)

Comment:

Add another line to P802.1CBdb Table 6-1 for TSN domain protection

Name: <Port number-based stream identification>

Active/Passive: Seems not applicable (pure identification for metering)

Examines: Reception port number, {group address, unicast address}, transmission port number

Overwrites: None

Reference: 6.9, 9.1.8 – needs to be written

Examples:

Meter for Unicast

- Any unicast Destination MAC address for non-stream VLANs
- Committed information rate (CIR)
- Committed burst size (CBS)
- MarkAllFramesRed = TRUE

Meter for Multicast

- Any multicast Destination MAC address for non-stream VLANs
- Committed information rate (CIR)
- Committed burst size (CBS)
- MarkAllFramesRed = TRUE

Questions?