

Maintenance Item 0270: Missing transmission selection algorithm configuration management

<https://www.802-1.org/items/385>

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Issue: YANG parameters to determine or configure the transmission selection algorithm of traffic classes in bridge ports are missing (cmp. IEEE Std 802.1Q-2018, table 8-6). As a result, it is not possible to:

- a) Identify the transmission selection algorithms assigned to classes:
 - 1) If recommendations of clause 34 in IEEE Std 802.1Q-2018 are implemented (or not)
 - 2) In presence vendor-specific algorithms
- b) Compute gate event list schedules and similar based on the identified assignments
- c) Change the transmission selection algorithm of a class, if supported via management

Required Changes:

- 1. Add identities and grouping to `ieee802-dot1q-types.yang` (see attached file – based on the published version).
- 2. Add leaf to `ieee802-bridge.yang` (see attached file – based on Qcr version that will get rolled in).
- 3. Update the tree listing in “48.6.2 YANG data scheme definition for the changes from the `ieee802-dot1q-bridge` YANG module” to include the new attribute (see attached file)
- 3. Update Figures 48-5, 48-7, 48-9 and 48-10 UML diagrams to include the new attribute as part of the ‘port’. Just after the `traffic-class-table` include the following:

```
struct transmission-selection-table; // (12.20.2, 8.6.8) r-w
```

- 4. Update the security sections in “48.2.1 Security considerations of the `ieee802-dot1q-bridge` and `ieee802-dot1q-vlan-bridge` YANG modules” to add the following to the unnumbered list just after the `interfaces/interface/bridge-port/priority-regeneration` item.

```
interfaces/interface/bridge-port/transmission-selection-table
```