

5. Conformance

Change subclause 5.2 as shown:

5.2 Conformant components and equipment

This subclause specifies requirements and options for the following core components:

- a) VLAN-aware Bridge component (5.4);
- b) VLAN-unaware Bridge component (5.14);

for the following components that use that core functionality:

- c) C-VLAN component (5.5);
- d) S-VLAN component (5.6);
- e) I-component (5.7);
- f) B-component (5.8);
- g) TPMR component (5.15);
- h) T-component (5.17);
- i) Edge relay (5.20.1);

and for the following systems that include instances of the above components:

- j) VLAN Bridge (5.9);
- k) S-VLAN Bridge (5.11.1);
- l) Provider Edge Bridge (5.11.2);
- m) Backbone Edge Bridge (5.12);
- n) TPMR (5.16);
- o) Edge Virtual Bridging Bridge (5.19);
- p) Edge Virtual Bridging Station (5.20);
- q) [Port Extender \(5.21\)](#);
- r) [Controlling Bridge \(5.22\)](#).

NOTE-A VLAN Bridge can also be referred to as a Customer Bridge or a C-VLAN Bridge. Both S-VLAN Bridges and Provider Edge Bridges are examples of Provider Bridges.

Insert new subclauses 5.21 and 5.22, renumbering existing subclauses as necessary, as shown:

5.21 Port Extender requirements

A Port Extender system shall comprise one conformant B-component capable of providing TESIs (5.8.2) and one or more conformant T-components each coupled to zero or one conformant C-VLAN aware component.

Each C-VLAN component shall comprise exactly two Ports a single Extended Port and a single C-VLAN Bridge Port coupled as specified in clause 44 to a T-component.

Each externally accessible port shall be designated as one of, and may be capable of being configured as any of the following:

- a) An Extended Port;

- b) A Cascade Port;
- c) An Uplink Port.

A conformant Port Extender shall:

- a) Have a single conformant B-component (clause 44) capable of providing TESIs (5.8.2);
- b) Have a T-component attached to an internal B-component Port for each leaf Extended Port (clause 44);
- c) Implement the Port Extender Control and Status Protocol (clause 45);
- d) Implement LLDP (IEEE Std. 802.1AB);
- e) Implement the LLDP Port Extension TLV (IEEE Std 802.1Q subclause D.2.1.5);
- f) Use the Nearest non-TPMR Bridge group address to carry all Port Extension TLVs;

A conformant Port Extender may:

- g) Have a 2-Port C-VLAN aware component attached to each Extended Port (clause 44).

5.22 Controlling Bridge requirements

A Controlling Bridge shall comprise a single conformant, primary, C-VLAN (5.5) or S-VLAN (5.6) aware component supporting the requirements of Bridge Port Extension specified in clause 44 and one or more conformant T-components (5.15) all coupled to a conformant, secondary, B-component (5.8) capable of providing TESIs (5.8.2).

Each externally accessible Port shall be capable of being configured as one of, and may be capable of being configured as any of:

- a) A C-VLAN Bridge Port;
- b) A Provider Network Port;
- c) A Cascade Port.

A conformant Controlling Bridge shall:

- d) Have a single conformant B-component (clause 44) capable of providing TESIs (5.8.2);
- e) Have a T-component attached to an internal B-component Port for each root Extended Port (clause 44);
- f) Support the Bridge Port Extension requirements specified in clause 44 on the primary component;
- g) Implement the Port Extender Control and Status Protocol (clause 45);
- h) Implement LLDP (IEEE Std. 802.1AB);
- i) Implement the LLDP Port Extension TLV (IEEE Std 802.1Q subclause D.2.1.5);

A conformant Controlling Bridge may:

- j) Support the Bridge Port Extension Management Objects (12.26);
- k) Support the IEEE-PE MIB module (17.2.16, 17.7.16).