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);

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);

c) VLAN Bridge (5.9);

d) 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 shall comprise a single conformant B-component capable of providing TESIs (25.10) and zero or more conformant T-components (5.15) each coupled to zero or one conformant VLAN aware component.

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

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

a) A leaf Extended Port;
b) A Cascade Port;

c) An Uplink Port.

as specified in Clause 44.

A conformant Port Extender shall:

d) Have a single conformant B-component (5.8) capable of providing TESIs (25.10);

e) Disable learning for a set of B-VIDs allocated to TE-MSTID as specified in 8.4 and in 8.9;

f) Discard frames with unregistered destination addresses for B-VIDs allocated to TE-MSTID (8.8.1);

g) Have a T-component (5.15) for each leaf Extended Port (Clause 44);

h) Support the Port Extender Control and Status Protocol (Clause 45);

i) Support LLDP (IEEE Std. 802.1AB) nearest non-TPMR database including the Port Extension TLV (D.2.1.5);

j) Implement the LLDP Port Extension TLV (IEEE Std 802.1Q subclause D.2.1.5);

k) Use the Nearest non-TPMR Bridge group address to carry all Port Extension TLVs.

A conformant Port Extender may:

l) 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 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) coupled to a single conformant B-component (5.8) capable of providing TESIs (25.10).

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 (5.8) capable of providing TESIs (25.10);

e) Disable learning for a set of B-VIDs allocated to TE-MSTID as specified in 8.4 and in 8.9;

f) Discard frames with unregistered destination addresses for B-VIDs allocated to TE-MSTID (8.8.1);

g) Have a T-component (5.15) for each root Extended Port (clause 44);

h) Support the Bridge Port Extension requirements specified in clause 44;

i) Implement the Port Extender Control and Status Protocol (clause 45);

j) Implement LLDP (IEEE Std. 802.1AB);

k) Implement the LLDP Port Extension TLV (IEEE Std 802.1Q subclause D.2.1.5);

A conformant Controlling Bridge may:

l) Support the Bridge Port Extension Management Objects (12.26);

m) Support the IEEE-PE MIB module (17.2.16, 17.7.16).