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 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) capapable 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) capapable 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).