5. Conformance

5.20.1 Edge relay requirements

~~An edge relay comprises a single C-VLAN component~~. A conformant implementation of an edge relay shall:

    a) Conform to the relevant standard for the Media Access Control technology implemented at each Port in support of the MAC ISS, as specified in 6.6 and 6.7;

    b) Support the MAC Enhanced Internal Sublayer Service at each Port, as specified in 6.8 and 6.9;

    c) Relay and filter frames as described in 8.1 and specified in 8.5, 8.6, 8.7, and 8.8;

    d) Support the following on each Port that supports untagged and priority-tagged frames:
        1) A Port VLAN Identifier (PVID) value (6.9);
        2) Configuration of at least one VID whose untagged set includes that Port (8.8.2);

    e) Allow tag headers to be inserted, modified, and removed from relayed frames, as specified in 8.1 and Clause 9, as required by the value(s) of the Acceptable Frame Types parameter supported on each Port, and by the ability of each Port to transmit VLAN-tagged and/or untagged frames;

    f) Support at least one Filtering Identifier (FID) (6.6, 8.8.3, 8.8.8, and 8.8.9);

    g) Allow allocation of at least one VID to each FID that is supported (6.6, 8.8.3, 8.8.8, and 8.8.9).

    h) Support exactly one URP (Clause 40) supporting the parameters of 6.6.5 for EVBMode = EVB station.

    i) Support one or more ERPs each supporting access to VSIs (Clause 40).

    j) Filter the Reserved MAC Addresses specified in Table 8-1.

    k) Support setting the Enable Ingress Filtering parameter (8.6.2) on each ERP.

    l) Support the requirements of either a VEB edge relay (5.20.1.1), or a VEPA edge relay (5.20.1.2).

A conformant implementation of an edge relay may:

    m) Comprise a single conformant C-VLAN component (5.4).

    n) Support setting the Acceptable Frame Types parameter (6.9) to *Admit Only VLAN Tagged Frames* on the URP.

    o) Support disabling of learning on each ERP (8.6.1).

    p) Support discarding frames with unregistered source addresses at each ERP (8.8.1).