

EVB Reflective Relay Mode Changes Discussion

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6.6.5 Reflective Relay parameters

The Internal Sublayer Service optionally makes available Reflective Relay Abilities and Reflective Relay status parameters of each instance of the service provided.

Reflective Relay Abilities define the role as well as advertised capability of each instance.

The RelayRole parameter defines the role of each instance.

The RelayRole parameter can take one of two values:

- a) User
- b) Provider

The RelayCapabilities parameter defines the announced capabilities of an instance in Provider. This value is not administratively controlled.

RelayCapabilities can take one of two values:

- a) Non-Reflective
- b) Reflective

The RelayRequest parameter defines the desired service of an instance in User.

RelayRequest can take one of two values:

- a) Non-Reflective
- b) Reflective

The operRelayStatus parameter provides result of EVB capabilities exchange. (Need to identify section that documents status transitions)

operRelayStatus for can take one of two values:

- a) Non-Reflective
- b) Reflective

The values of parameters identified above are defined as follows:

- a) **Provider:** Provides the Relay capabilities service
- b) **User:** Uses the Relay capability service
- b) **Reflective:** The service provides or uses reflective relay of received frames, as specified in 8.6.1.
- c) **Non-Reflective.** The service does not support either the provision or the use of reflective relay.

3.14 Uplink edge relay port (URP): A port of an edge relay that supports the reflective relay parameters (6.6.5).

5.20.1 Edge relay requirements

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

- a) Support exactly one URP (Clause 40) supporting the parameters of 6.6.5
- b) Support one or more ERPs each supporting access to VSIs (Clause 40).
- c) Filter the Reserved MAC Addresses specified in Table 8-1.
- d) Support setting the Enable Ingress Filtering parameter (8.6.2) on each ERP.

A conformant implementation of an edge relay may:

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

- f) Support disabling of learning on each ERP (8.6.1).
- g) Support discarding frames with unregistered source addresses at each ERP (8.8.1).
- h) Declare role of the instance by setting RelayRole as User

5.20.1.1 Non-VEPA edge relay requirements

In addition to the requirements of an edge relay, a conformant Non-VEPA edge relay implementation shall:

- a) Set RelayRequest to NonReflective (6.6.5).

Editor's Note:

The EVB Bridge subclause 6.6.5 currently requires an EVB Bridge with RR support to initialize with RR off and to only set RR when requested.

5.20.1.2 VEPA edge relay requirements

In addition to the requirements of an edge relay a conformant VEPA edge relay implementation shall:

- h) Disable learning on the URP (8.6.1).
 - i) Filter frames received at each URP that are destined to an ERP that originated the frame (8.6.1.1).
 - j) Request reflective relay service by setting RelayRequest to Reflective (6.6.5).
 - k) Forward frames as specified in 8.6.3.1.
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5.19 Edge Virtual Bridging Bridge requirements

An EVB Bridge shall comprise a single conformant C-VLAN component (5.5) and zero or more Portmapping S-VLAN components (5.6).

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 aware Bridge Port.
 - b) A Station-facing Bridge Port (SBP).
 - c) An Uplink Access Port (UAP).
- as specified in Clause 40.

A conformant EVB Bridge implementation shall:

- d) Support the functionality of a C-VLAN component (5.5).
 - e) Support at least one SBP on the C-VLAN component (Clause 40).
 - f) Declare role of each SBP by setting RelayRole as Provider (6.6.5).
 - g) Support an LLDP nearest Customer Bridge database including the EVB TLV on each SBP (D.2.13);
 - h) Support ECP on each SBP (Clause 43).
 - i) Support the Bridge role of VDP on each SBP (Clause 42).
 - j) Filter frames destined for SBPs until the reflective relay configuration is valid (6.6.5, 8.6.1.1).
- In addition to the requirements of an EVB Bridge a conformant EVB Bridge with S-channel support shall:
- k) Support at least one Port-mapping S-VLAN component (22.6.4) and associated UAP (42.1.1) configured as specified in 40.2 (a)-(d).
 - l) Support CDCP, as specified in Clause 42, operating in Bridge mode.
 - xx) Declare reflective relay service capability by setting RelayCapabilities to Non-Reflective (6.6.5).

A conformant EVB Bridge implementation may:

- m) Support configuration of reflective relay on each SBP of the C-VLAN component (8.6.1).
 - m.1) Shall declare reflective relay service capability by setting RelayCapabilities to Provider (6.6.5).
- n) Support management for the EVB components (12.4-12.12,12.24).
- o) Support the MIB module defined in 17.7.15.

PICS to be changed accordingly.

TLV to be changed accordingly.