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| IEEE 802.1 REVISION REQUEST 0111 |
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DATE: 3 May, 2013
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REQUESTED REVISION:
     STANDARD: IEEE Std 802.1Q, 2012 Edition
     CLAUSE NUMBER: 12.16.3, 12.16.5 (and MIBS)
     CLAUSE TITLE: VIP configuration MO, CBP Configuration MO

RATIONALE FOR REVISION:

This item was triggered by looking into the T and R bits that control multicast transmit and receive for BSI (I-SID) endpoints in SPBM. At first it appeared these were driven from the Ingress and Egress bits found in the management models (12.16.3.2.2:d and ieee8021PbbVipType for VIP and 12.16.5.2.2:f and ieee8021PbbCBPServiceMappingType for CBP). However, the 802.1aq editor indicated these (T/R and Ingress/Egress) are different. That appears to be correct as the Ingress/Egress bits affect all traffic and T/R are intended for multicast control (in SPBM). There does not appear to be any management control for T/R bits in .1aq (this is corrected in 802.1Qbp).

Further discussions indicated that the ingress/egress bits were at one time included in the draft for PBB and later removed; however, they appear to have remained in the managment model and MIB. Since there is no mechnaism specified for ingress/egress controls in 6.10 or 6.11 these configuration objects should be removed or deprecated.

The MIB Textual Convention IEEE8021PbbIngressEgress is used for the objects controlling the (unused) ingress/egress bits in the IEEE8021-PBB-MIB; however, this TC has also been used in the IEEE8021-SPB-MIB for read-only access to the T/R bits in the ISIS-SPB topology database. Therefore, while the MIB objects for ingress/egress should be deprecated, the TC should be kept to avoid disrupting the SPB MIB. Some adjustment to MIB TC and object descriptions is needed to clarify the situation.

PROPOSED REVISION TEXT:

Delete 12.16.3.1.3:f, 12.16.3.2.2:d, 12.16.5.1.3:f, and 12.16.5.2.2:f

In IEEE8021-PBB-MIB deprecate ieee8021PbbVipType and ieee8021PbbCBPServiceMappingType and correct the Conformance sections, if necessary.

Remove references to ieee8021PbbVipType in Clause 17 (Table 17-13, 17.4.8, 17.5.3.5.2, and 17.6.2.2.1)

Remove references to ieee8021PbbCBPServiceMappingType in Clause 17 (Table 17-13)

In Table 17-2 correct the references for IEEE8021PbbIngressEgress

In IEEE8021-TC-MIB change the description for IEEE8021PbbIngressEgress from:

"A 2 bit selector which determines if frames on this VIP may

ingress to the PBBN but not egress the PBBN, egress to the PBBN but not ingress the PBBN, or both ingress and egress the PBBN."

to:
"A pair of {ingress, egress} flags for a Group Address defining transmit, receive, or both at a node in an SPB Region. When set, the ingress flag indicates that frames with the Group Address will be transmitted from the advertising node into the SPB Region. When set, the egress flag indicates frames transmitted with the Group Address must be delivered to the advertising node."

In IEEE-SPB-MIB change the description for ieee8021SpbmTopSrvEntryIsidFlags from:

"A pair of flags defining the attributes of this service. These specify independently whether ingress frames to the SPBM region should be transmitted within it, and whether frames received from the SPBM region are required egress it."

to:

"A pair of flags defining the transmit and receive attributes for the I-SID Group Address of this service. These specify independently whether the advertising node will transmit I-SID group addressed frames into the SPBM region, and whether I-SID group addressed frames must be delivered to the advertising node."

IMPACT ON EXISTING NETWORKS:

Since there is no specification of any PIP or CBP behavior controlled by the ingress/egress bits, removing these from the management model should have no impact on existing networks. Changing descriptions in the TC-MIB and SPB-MIB should not impact existing networks.

Please attach supporting material, if any
Submit to:- Tony Jeffree, Chair IEEE 802.1
and copy:- Paul Congdon, Vice-Chair IEEE 802.1
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