

IEEE 802.1 Maintenance Request

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| IEEE 802.1 REVISION REQUEST 0045 |
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DATE: July 3, 2012
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REQUESTED REVISION:
STANDARD: 802.1Q-2011
CLAUSE NUMBER: 10.7.5.2
CLAUSE TITLE: Flush!

RATIONALE FOR REVISION:

The current behavior of the Registrar state table (Table 10-4) does not cause a "Lv" (10.7.6.14) to be sent when in the "IN" state and a Flush! event occurs.

This results in the permanent registration of the associated attribute, as the MRP application is never made aware of the Registrar's state change.

PROPOSED REVISION TEXT:

Regarding Table 10-4, state "IN", event "Flush!":
Replace "MT"
with
"
LV
MT
"

IMPACT ON EXISTING NETWORKS:

The intention of the informatively named state names "IN" and "MT" is maintained when a "Lv" is signaled, as this will trigger a MAD_Leave.indication to the MRP application.

The intentions outlined in 10.3.1.1 will similarly be maintained by this change, specifically, quoting from the end of 10.3.1.1:

""

For implementations running over RSTP or MSTP, this gives rise to the risk of information loops when Port roles change; because of the store and forward nature of attribute propagation and the potentially rapid transitions of Port roles (compared to the relatively slow transitions that occurred with STP), these can arise

even when there are no data loops.

To prevent such information loops from occurring, the information held by MAD's Registrars for a Port (i.e., information registered on a Port as a result of protocol activity on the LAN to which that Port is connected) is discarded whenever the Port transitions from an Alternate port or Root Port role to become a Designated Port. No such discard is needed for changes in the other direction, i.e., changes from Designated Port to Root Port or Alternate Port.
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| Please attach supporting material, if any
| Submit to:- Tony Jeffree, Chair IEEE 802.1
| and copy:- Paul Congdon, Vice-Chair IEEE 802.1
| E-Mail: stds-802-1-maint-req@ieee.org
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|           +----- For official 802.1 use -----+
|           | REV REQ NUMBER: 0045
|           | DATE RECEIVED: 09/06/2012
|           | EDITORIAL/TECHNICAL
|           | ACCEPTED/DENIED
|           | BALLOT REQ'D YES/NO
|           | Status: R
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