

IEEE 802.1 Maintenance Request

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| IEEE 802.1 REVISION REQUEST 0047 |  
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DATE: July 6, 2012
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REQUESTED REVISION:
STANDARD: 802.1Q-2011
CLAUSE NUMBER: 10.7.2, 11.2.1.3
CLAUSE TITLE: Registrar Administrative Controls, Use of the PVID and VID Set

RATIONALE FOR REVISION:

The propagation of statically set VLANs is implied, but no mechanism is defined to actually propagate such information.

Specifically, simply being in the "IN" state of the Registrar state machine does not trigger an indication to the MVRP Application.

Clause 11.2.1.3 states:

The initial state of the Permanent Database contains a Static VLAN Registration Entry for the Default PVID, in which the Port Map indicates Registration Fixed on all Ports. This ensures that in the default state, where the value of every PVID of each Port is the Default PVID and where the VID Set of each Port is empty, membership of the Default PVID is propagated across the Bridged Local Area Network to all other MVRPaware devices.

Clause 10.7.2 first paragraph states:

Associated with each instance of the Registrar state machines are Registrar Administrative Control parameters. These parameters allow administrative control to be exercised over the registration state of each Attribute value, and hence, via the propagation mechanism provided by MAP, allow control to be exercised over the propagation of declarations.

Clause 10.7.2 third paragraph states:

If the value of this parameter is Registration Fixed or Registration Forbidden, In and JoinIn messages are sent rather than Empty or JoinEmpty messages.

The Registrar state machine (Table 10-4) does not trigger an

indication to the MRP Application simply by the state of the attribute, but rather through the MAD_Join.indication and MAD_Leave.indications, which occurs only when 'New', 'Join' or 'Lv' protocol actions occur (10.7.6.12-14 respectively)

PROPOSED REVISION TEXT:

(text surrounded by '' marks denotes italics)
Replace the last paragraph of 10.7.2 which was:

If the value of this parameter is 'Registration Fixed' or 'Registration Forbidden', In and JoinIn messages are sent rather than Empty or JoinEmpty messages.

Replace with:

When an Attribute value is first set to 'Registration Fixed', a MAD_Join.indication primitive is issued to the MAD Service User, indicating the Attribute instance. When an Attribute value is first set to 'Registration Forbidden', a MAD_Leave.indication primitive is issued to the MAD Service User, indicating the Attribute instance. When an Attribute value is set back to 'Normal Registration', the associated Registrar and Applicant state machines act as though a rLv! (10.7.5.17) occurred.

If the value of this parameter is 'Registration Fixed' or 'Registration Forbidden', In and JoinIn messages are sent rather than Empty or JoinEmpty messages.

(OR ? Replace this last paragraph with the following?
If the value of this parameter is 'Registration Fixed', In and JoinIn messages are sent. If the value of this parameter is 'Registration Forbidden', Empty or JoinEmpty messages are sent.
)

IMPACT ON EXISTING NETWORKS:

Current behavior for Registration Fixed or Registration Forbidden is not completely specified, hence some existing implementations may not propagate information that is statically sent, and others may not rapidly indicate MAD_Join or MAD_Leave as proposed in this remedy.

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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
|
|           +----- For official 802.1 use -----+
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