

-----+
| 8802-3/802.3 REVISION REQUEST |
+-----+

DATE: July 12, 2000
NAME: Les Bell
COMPANY/AFFILIATION: 3Com
ADDRESS: 3Com Centre
Boundary Way, Hemel Hempstead
Herts, HP2 7YU, UK
PHONE: +44 1442 438025
FAX: +44 1442 438333
E-MAIL: Les_Bell@3Com.com

REQUESTED REVISION:
STANDARD: IEEE Std 802.3ad-2000
CLAUSE NUMBER: 30C
CLAUSE TITLE: SNMP MIB definitions for Link Aggregation

PROPOSED REVISION TEXT:

In the MIB objects:

dot3adAggPortActorSystemPriority
dot3adAggPortPartnerAdminSystemPriority
dot3adAggPortPartnerOperSystemPriority
dot3adAggPortActorPortPriority
dot3adAggPortPartnerAdminPortPriority
dot3adAggPortPartnerOperPortPriority

the line

SYNTAX INTEGER (0..255)
should be replaced with
SYNTAX INTEGER (0..65535)

RATIONALE FOR REVISION:

Some objects in the 802.3ad MIB, have been defined with an incorrect range of possible values. These changes are required in order to match the definitions in the MIB with the definitions of the managed objects from the referenced subclauses.

IMPACT ON EXISTING NETWORKS:

The full 16-bit priority values are exchanged by LACP, so a system that implements the the MIB with the full range of priority values, (0..65535), will not be able to detect that a Partner system limits it's MIB to the more restricted range, (0..255). Therefore it will not experience any problems.

If a system implements the MIB, as in the published spec., with the syntax for the priority values in the range (0..255), it will still be able to manually assign priority values for the ports, but with less flexibility than originally intended. Such implementations will still interoperate correctly with Partner systems that support the full 16-bit range of priority values, as all state machines use the 16-bit values received in the LACP messages. However, they may incorrectly report the priority values received from the Partner system. If such a system is subsequently upgraded to support the full 16-bit values in the MIB items, there should be no additional

problems experienced, as all values from the more limited range will still be supported.

Please attach supporting material, if any
Submit to:- Geoffrey O. Thompson, Chair IEEE 802.3
Nortel Networks, Inc. M/S SC5-02
4401 Great America Parkway
P. O. Box 58185
Santa Clara, CA 95052-8185 USA
Phone: +1 408 495 1339 FAX: +1 408 495 988 5525
E-Mail: gthomps@nortelnetworks.com

+----- For official 802.3 use -----+

REV REQ NUMBER: 1051
DATE RECEIVED: 12th July 2000
EDITORIAL /TECHNICAL
ACCEPTED/ DENIED
BALLOT REQ'D YES/ NO
COMMENTS: Published IEEE Std 802.3-2002

For information about this Revision Request see -
http://www.ieee802.org/3/maint/requests/revision_history.html#REQ1051