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| IEEE 802.1 REVISION REQUEST 0163 |
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DATE: May 18, 2015
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REQUESTED REVISION:
STANDARD: 802.1AX-2014
CLAUSE NUMBER: 9.3.2
CLAUSE TITLE: Intra-Portal Link

RATIONALE FOR REVISION:

When a DRNI portal is created, it is critical for the LACP partner of the portal to be configured with one and only one aggregator using the same key value as the ports connected to the DRNI portal. Failure to do this will result in a loop if the IPL in the Portal fails. The necessity of this configuration for loop-free fault recovery is not mentioned anywhere in the document.

PROPOSED REVISION TEXT:

Add the following paragraph to the end of 9.3.2 (prior to 9.3.2.1):

The operation of the DR Function state machines and Control Protocol specified in the following sections assures that if a loss of connectivity via the IPL results in a Portal System being unable to communicate with other Portal Systems in the Portal, those Portal Systems will used different key values in LACPDUs exchanged on the Aggregation Links attached to the Portal Systems. This prevents Aggregation Links attached to Portal Systems that cannot communicate via an IPL from being selected for the same LAG. It is possible that these Aggregation Links could become operational in separate LAGs, however, potentially creating a communication loop through the LACP partner of the Portal Systems. To prevent this loop it is essential that the LACP partner of the DRNI Portal be configured such that there is one and only one Aggregator with the same key value as the Aggregation Ports connected to the DRNI Portal.

IMPACT ON EXISTING NETWORKS:

If there is an existing network with the LACP partner of a DRNI Portal that is not already configured in this manner, then a configuration change would be necessary to avoid the possibility of creating a loop upon the failure of an IPL.

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| Please attach supporting material, if any |
| Submit to:- Glenn Parsons, Chair IEEE 802.1 |
| and copy:- John Messenger, Vice-Chair IEEE 802.1 |
| E-Mail: stds-802-1-maint-req@ieee.org |
| |
| +------- For official 802.1 use -----------+ |
| | REV REQ NUMBER: 0163 | |

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|            | DATE RECEIVED: 18 May 2015               |            |
|            | EDITORIAL/TECHNICAL                      |            |
|            | ACCEPTED/DENIED                          |            |
|            | BALLOT REQ'D YES/NO                      |            |
|            | Status: R                                |            |
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