P802.1AX-REV/D4.3 2ND SPONSOR RECIRCULATION BALLOT

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BALLOT STATISTICS

P802.1AX-REV/D4.3 Sponsor Recirculation Ballot results

Ballot Open Date:	22-Jul-2014
Ballot Close Date:	06-Aug-2014
Type:	Revision
Draft #:	P802.1AX-REV/D4.3
Ballots Received:	4
Vote Changes:	1
Comments:	16
Must Be Satisfied Comments:	1

RESPONSE RATE

This ballot has met the 75% returned ballot requirement.

87 eligible people in this ballot group.

71 affirmative votes
0 total negative votes with comments
0 negative votes with new comments
0 negative votes without comments
2 abstention votes: (Lack of expertise: 1, Lack of time: 1)

73 votes received = 83% returned
2% abstention

APPROVAL RATE

The 75% affirmation requirement is being met.

71 affirmative votes
0 negative votes with comments

71 votes = 100% affirmative

COMMENT R02-8

- The currently specified operation does not match the quoted description and drops all the received DRCPDUs when the digests of the configured Conversation ID to Portal System selection rules are configured differently on the Neighbor Portal Systems.

DIGESTS

- Details on the digests calculations need to be provided. In particular the DRF_Home_Conversation_GatewayList_Digest in 9.4.8 should be provided at the same level of detail as that given for Actor_Conversation_LinkList_Digest. See updated text.
- Other digest calculations in 9.4.9 (DRF_Home_Network/IPL_IPLEncap_Digest and DRF_Home_Network/IPL_NetEncap_Digest) will give reference to the calculation for the DRF_Home_Conversation_GatewayList_Digest).

CONVERSATION ID TLVS

- In order to enable operation of the Portal under misconfiguration of some Conversation IDs, digest comparison is not sufficient but the exchange of the operational vectors listing how each Gateway or Port
- Conversation ID distribution across the Portal is required. Two new Conversation vector TLVs will be introduced. One Gateway and one Port Conversation Vector TLV, as specified in the new 9.4.3.3 subclause, each one carrying a 512 octet long field (for a Portal of 2 Portal Systems) or a 1024 octet long field (for a Portal of 3 Portal Systems).

LENGTH ISSUES

- In order to enable a carrying a 1024 field by DRCPDU the length values in the case of the DRCPDU TLVs will be modified to only refer to the Value fields.
- A NOTE will be inserted in 9.4.3.2 to state
- "NOTE 7—The DRCP TLV Length fields provide the length of the TLV Value fields in contrast to the LACP TLV Length fields which provide the length of the total TLV (including the 2 octets for the TLV Type and TLV Length field). This enables the use of TLVs carrying a TLV Value field of a length up to 1024 octets.“
- All the DRCPDU TLV length fields will be updated accordingly and similar change will be done for the MAC Address Synchronization TLVs.

NEW MANAGED OBJECT

- The reduced size of the Conversation Vector TLVs for a Portal consisting of 2 Portal Systems and the associated different processing of the received information will require consistent configuration of such setting across the Portal.
- This will be achieved by introducing a new configuration flag, aDrniThreePortalSystem, in 7.4.1.1.6 and the introduction of the this flag in an unused bit within the Portal Configuration Information TLV.

NEW VARIABLES

- The introduction of new managed object would require the two new operational variables Drni_Three_System_Portal, in 9.4.7 and Drni_Neighbor_Three_System_Portal in 9.4.9 to describe the associated processing.
- Furthermore two new variables, the Drni_Neighbor_Gateway_Conversation and the Drni_Neighbor_Port_Conversation will be introduced to describe the processing related to the conversation vectors.

TRANSMIT

- Two new variables, the GatewayConversationTransmit and the PortConversationTransmit, will be introduced to indicate to the DTX state machine that the associated conversation vector TLV need to be included in a DRCPDU.
- Text describing which TLVs are prepared for DRCPDU transmission is provided in 9.4.19.

recordPortalConfValues()

- The recordPortalConfValues() function will be modified. The updated description will enable further DRCPDU processing even if configuration value differences are reported.
- The updated text describing the recordPortalConfValues() will be as described in 9.4.11 of the attached document.
- There will be some minor changes in DRCPDU Receive state machine description in Figure 9-19.
- The reportToManagement function will be incorporated within the recordPortalConfValues() and the recordPortalValues() and the state will change name do DISCARD.
- In addition when the timer expires the state will transit to the DEFAULTED state.

DRNI_COMMON_METHODS

- The Boolean variable, Drni_Common_Methods, will be introduced
- This is a flag indicating whether the Gateway and the Port Algorithms use the same methods for frame distribution across the Portal Systems within a Portal. Always set equal to aDrniPortConversationControl (7.4.1.1.22). This will be transmitted in
- DRCPDUs as a bit in the Topology State field within the Portal Configuration Information TLV. Associated Drni_Neighbor_Common_Methods fields will be introduced for each Neighbor Portal System to record the received information.

recordNeighborState()

- The part of the recordNeighborState function which is responsible for setting the GatewayConversationUpdate flag will be modified as specified in 802.1AX-REV/D4.4b
- A similar update will be inserted for the operations related to setting the PortConversationUpdate flag.

setIPPGatewayConversation()

- Regularly, the Neighbor Portal System's Gateway Conversation is calculated from the operational state of every Portal System as reported by the last DRCPDU received from that Neighbor Portal System.
- Nevertheless, when the Neighbor Portal Systems do not agree on the distribution methods they are using, setIPPGatewayConversation() needs to be modified either to assign all the Conversation to the Neighbor Portal System or to extract the value from Conversation Vector field if the associated TLV is present and is applicable
- Similar change needs to applied to the setIPPPortConversation()

updatePortalSystemGatewayConversation()

- Similar updates as those discussed in the previous page need to be applied in the updatePortalSystemGatewayConversation() and the updatePortalSystemPortConversation() functions.

ROGUE COMMENT

- In 7.3.1.1.38 aAggAdminServiceConversationMap[] since we extended the Service ID to a 32 bit quantity, the Null value should be 0xFFFFFFFF, instead of the currently specified 0xFFFF. Alternatively we could just delete the sentence. Such NULL value was the result of a comment early in the process, but when we added the Port Conversation ID itself into the calculation of the digest it became unnecessary to have an explicit value indicating that no Service ID maps to a particular Port Conversation ID.

ERICSSON