

INTERNATIONAL STANDARD ISO/IEC/IEEE 8802-1AX:2016 **TECHNICAL CORRIGENDUM 1**

Published 2018-09

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION INTERNATIONAL ELECTROTECHNICAL COMMISSION • MEЖДУНАРОДНАЯ ЭЛЕКТРОТЕХНИЧЕСКАЯ КОМИССИЯ • COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

Information technology — Telecommunications and information exchange between systems — Local and metropolitanarea :CIEEE 8802.1A networks — Specific requirements

Part 1AX:

Link aggregation

TECHNICAL CORRIGENDUM 1

Technologies de l'information — Télécommunications et échange d'information entre systèmes — Réseaux locaux et métropolitains — Exigences spécifiques REFUIL POR OF

Partie 1AX: Agrégation de lien

RECTIFICATIF TECHNIQUE 1

Technical Corrigendum 1 to ISO/IEC/IEEE 8802-1AX:2016/Cor 1 was prepared by the LAN/MAN of the IEEE Computer Society (as IEEE Std 802.1AX-2014/Cor 1-2017) and drafted in accordance with its editorial rules. It was adopted, under the "fast track procedure" defined in the Partner Standards Development Organization cooperation agreement between ISO and IEEE, by Joint Technical Committee ISO/IEC JTC 1, Information technology, Subcommittee SC6, Telecommunications and information exchange between systems.

Ref. No. ISO/IEC/IEEE 8802-1AX:2016/Cor.1:2018(E)

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Approved 14 February 2017
IEEE-SA Standards Board

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Abstract: Technical and editorial corrections are provided in this corrigendum to IEEE Std 802.1AX-2014.

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Electricket Keywords: Aggregated Link, Aggregator, corrigendum, Distributed Resilient Network Interconnect, DRNI, IEEE 802®, IEEE 802.1AX™, interconnect, Link Aggregation, Link Aggregation Group, local area network, management, Network-Network Interface, NNI

The Institute of Electrical and Electronics Engineers, Inc. 3 Park Avenue, New York, NY 10016-5997, USA

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ISBN 978-1-5044-3729-5 ISBN 978-1-5044-3730-1 PDF: STD22417 STDPD22417

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Link Aggregation—Corrigendum 1:
Technical and editorial corrections

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6. Link Aggregation

6.1 Overview

6.1.1 Goals and objectives

Change item o) as follows:

Multipoint Aggregations—The mechanisms specified in this clause do not support aggregations among more than two Systems that forms a Link Aggregation Group with another individual System or with a Portal consisting of up to three Systems. (See Clause 9, Distributed Resilient N Interconnect, for aggregations among two Portals each consisting of up to three mechanisms that support a Portal forming a Link Aggregation group with an individual System or with another Portal.) EE 8802.18

6.4.2 LACPDU structure and encoding

6.4.2.1 Transmission and representation of octets

Change item d) as follows:

When consecutive octets are used to represent a MAC address, the least significant bit of the first octet is assigned the value of the first bit of the MAC address, the next most significant bit the value of the second bit of the MAC address, and so on through the eighth bit. Similarly, the least significant through most significant bits of the second octet are assigned the value of the ninth through seventeenthsixteenth bits of the MAC address, and so on for all the octets of the MAC address.

6.4.2.4 Version 2 TLVs

Change 6.4.2.4.1 as follows:

6.4.2.4.1 Port Algorithm TLV

This TLV is required to support the Conversation-sensitive LACP operation (6.6.2) and shall be present on all Version 2 LACPDU exchanges. The Port Algorithm TLV structure shall be as shown in Figure 6-9 and as further described in the following field definitions:

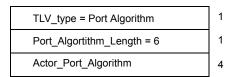


Figure 6-9—Port Algorithm TLV

- TLV type = Port Algorithm. This field indicates the nature of the information carried in this TLVtuple. The Port Algorithm TLV is identified by the integer value 0x04.
- Port Algorithm Length. This field indicates the length (in octets) of this TLV-tuple. The Port Algorithm TLV uses a length value of 6 (0x06).
- Actor Port Algorithm. This field contains the value of the Actor Oper Port Algorithm algorithm used to assign frames to Port Conversation IDs. It consists of the 3-octet organizationally unique identifier (OUI) or Company Identifier (CID) identifying the organization that is responsible for this

algorithm and one following octet used to identify the Port Algorithm by that organization. always set equal to aAggPortAlgorithm (7.3.1.1.33). Table 6-4 provides the IEEE 802.1 OUI (00-80-C2) Port Algorithm encodings.

Table 6-4—IEEE Port Algorithms

Port Algorithm field	Value
Unspecified distribution algorithm	<u>00-80-C2-00</u>
Distribution based on C-VIDs	<u>00-80-C2-01</u> 4
Distribution based on S-VIDs	<u>00-80-C2-02</u> 2
Distribution based on I-SIDs	<u>00-80-C2-03</u> 3
Distribution based on TE-SIDs	<u>00-80-C2-04</u> 4
Distribution based on ECMP Flow Hash	00-80-C2-05
Reserved	00-80-C2-06 through 00-80-C2-FF 6-255

Change 6.4.2.4.2 as follows:

6.4.2.4.2 Port Conversation ID Digest TLV

This TLV is required to support the Conversation sensitive LACP operation (6.6.2) and shall be present on all Version 2 LACPDU exchanges. The Port Conversation ID Digest TLV structure shall be as shown in Figure 6-10 and as further described in the following field definitions:

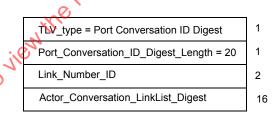


Figure 6-10—Port Conversation ID Digest TLV

- TLV_type = Port Conversation ID Digest. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation ID Digest TLV is identified by the integer value 0x05.
- Port_Conversation_ID_Digest_Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation ID Digest TLV uses a length value of 2 (0x14).
- c) Link_Number_ID. This field contains the operational value of the Link_Number_ID that is assigned to this Aggregation Port in order to identify Link_Number_ID configuration errors.
- d) Actor_Conversation_LinkList_Digest. This field contains the value of the MD5 digest Actor_Conversation_LinkList_Digest () Actor_Oper_Conversation_LinkList_Digest for exchange with the Partner System.

Change 6.4.2.4.3 as follows:

6.4.2.4.3 Port Conversation Mask TLVs

There are four Port Conversation Mask TLVs, as follows:

- a) Port Conversation Mask-1 TLV
- b) Port Conversation Mask-2 TLV
- c) Port Conversation Mask-3 TLV
- d) Port Conversation Mask-4 TLV

If any of the Port Conversation Mask TLVs are to be earried in an LACPDU then When LongLACPDUtransmit is TRUE, all four shall be carried together, and placed in the same order as the preceding list, and include the Port Oper Conversation Mask 1 field in the Port Conversation Mask-1 TLV. When LongLACPDUtransmit is FALSE, only the Port Conversation Mask-1, without the Port Oper Conversation Mask 1 field, shall be present. These TLVs are required to support the Conversation-sensitive LACP operation (6.6.2), and they shall be present on all Long LACPDU exchanges.

The Port Conversation Mask-1 TLV structure shall be as shown in Figure 6-1 and as further described in the following field definitions:

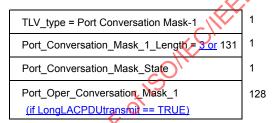


Figure 6-11—Port Conversation Mask-1 TLV

- e) TLV_type = Port Conversation Mask-1. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation Mask-1 TLV is identified by the integer value 0x06.
- f) Port Conversation Mask 1 Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation Mask-1 TLV uses a length value of either 3 (0x03) or 131 (0x83).
- g) Port_Conversation Mask_State. The Port Conversation Mask state variables for the Aggregation Port, encoded as individual bits within a single octet, as follows and as illustrated in Figure 6-12:
 - 1) ActPar Sync is encoded in bit 0. This flag indicates if the Port Conversation Mask used by the Actor's Frame Distributor is the same or not as that used by the Partner's Frame Distributor.

 TRUE (encoded as a 1) if Partner_Oper_Conversation_Mask == Port_Oper_Conversation_Mask. Its value is otherwise FALSE (encoded as a 0);
 - Portal System Isolated (PSI) is encoded in bit 1. This flag is only applicable for Portal Systems (Clause 9) and is used to indicate if the Portal System is isolated from the other Portal Systems within the Portal (). TRUE (encoded as a 1) if DRF_Neighbor_Oper_DRCP_State.IPP_Activity == FALSE on all IPPs on this Portal System. Its value is otherwise FALSE (encoded as a 0);
 - 3) Discard Wrong Conversation (DWC) is encoded in bit 2. This flag is used to indicate if the Aggregator will discard frames with incorrect Port Conversation IDs. When the Aggregation Port is ready to activate the link (i.e., Actor_Oper_Port_State.Synchronization is TRUE), it !* is encoded as a 1 if Discard_Wrong_Conversation == TRUE and as 0 otherwise. When the Aggregation Port is not ready to activate the link (i.e., Actor_Oper_Port_State.Synchronization is FALSE), this bit is transmitted as 0;
 - 4) All other bits in the octet are reserved for future use. They are transmitted as zero and are ignored on receipt.

BIT							
0	1	2	3	4	5	6	7
ActPar_Sync	PSI	DWC	Reserved	Reserved	Reserved	Reserved	Reserved

NOTE—Bit ordering within this field is as specified in 6.4.2.1.

Figure 6-12—Bit encoding of the Conversation Mask State fields

h) Port_Oper_Conversation_Mask_1. This If LongLACPDUtransmit is TRUE, this field contains the Boolean values of the mask for the first 1024 indexed Port Conversation IDs of the Port_Oper_Conversation_Mask Boolean vector encoded in increasing Port Conversation ID order starting from Port Conversation ID 0 up to Port Conversation ID 1023.

The Port Conversation Mask-2 TLV structure shall be as shown in Figure 6-13 and as further described in the following field definitions:

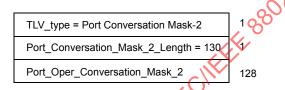


Figure 6-13—Port Conversation Mask-2 TLV

- i) TLV_type = Port Conversation Mask-2. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation Mask-2 TLV is identified by the integer value 0x07.
- j) Port_Conversation_Mask_2_Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation Mask-2 TLV uses a length value of 130 (0x82).
- k) Port_Oper_Conversation_Mask_2. This field contains the Boolean values of the mask for the second 1024 indexed Port Conversation IDs of the Port_Oper_Conversation_Mask Boolean vector encoded in increasing Port Conversation ID order starting from Port Conversation ID 1024 up to Port Conversation ID 2047.

The Port Conversation Mask 3 TLV structure shall be as shown in Figure 6-14 and as further described in the following field definitions:



Figure 6-14—Port Conversation Mask-3 TLV

- 1) TLV_type = Port Conversation Mask-3. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation Mask-3 TLV is identified by the integer value 0x08.
- m) Port_Conversation_Mask_3_Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation Mask-3 TLV uses a length value of 130 (0x82).
- n) Port_Oper_Conversation_Mask_3. This field contains the Boolean values of the mask for the third 1024 indexed Port Conversation IDs of the Port_Oper_Conversation_Mask Boolean vector encoded in increasing Port Conversation ID order starting from Port Conversation ID 2048 up to Port Conversation ID 3071.

The Port Conversation Mask-4 TLV structure shall be as shown in Figure 6-15 and as further described in the following field definitions:



Figure 6-15—Port Conversation Mask-4 TLV

- o) TLV_type = Port Conversation Mask-4. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation Mask-4 TLV is identified by the integer value 0x09.
- p) Port_Conversation_Mask_4_Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation Mask-4 TLV uses a length value of 130 (0x82).
- q) Port_Oper_Conversation_Mask_4. This field contains the Boolean values of the mask for the final 1024 indexed Port Conversation IDs of the Port_Oper_Conversation_Mask Boolean vector encoded in increasing Port Conversation ID order starting from Port Conversation ID 3072 up to Port Conversation ID 4095.

Change 6.4.2.4.4 as follows:

6.4.2.4.4 Port Conversation Service Mapping TLV

This TLV is only required when the Service IDs are different from the Conversation ID. The Port Conversation Service Mapping TLV structure shall be as shown in Figure 6-16 and as further described in the following field definitions:

```
TLV_type = Port Conversation Service Mapping Digest 1

Port_Conversation_Service_Mapping_Digest_Length = 18 1

Actor_Conversation_Service_Mapping_Digest 16
```

Figure 6-16—Port Conversation Service Mapping TLV

- a) TLV_type = Port Conversation Service Mapping Digest. This field indicates the nature of the information carried in this TLV-tuple. The Port Conversation Service Mapping TLV is identified by the integer value 0x0A.
- b) Port_Conversation_Service_Mapping_Digest_Length. This field indicates the length (in octets) of this TLV-tuple. The Port Conversation Service Mapping TLV uses a length value of 18 (0x12).
- c) Actor Conversation_Service_Mapping_Digest. This field contains the value of the MD5 digest computed from aAggAdminServiceConversationMap[] (7.3.1.1.38)

 Actor Oper Conversation Service Mapping Digest for exchange with the Partner System.

6.4.7 Variables associated with each Aggregation Port

Change the name and definition of the variable enable long pdu xmit as follows:

enable_long_pdu_xmit Enable_Long_PDU_Xmit

A variable An administrative control indicating that Long LACPDUs can be transmitted. TRUE when Long LACPDUs can be transmitted, FALSE when only fixed sized LACPDUs (110 octets) can be transmitted. The variable is only applicable to Version 2 or higher implementations of the protocol.

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Value: Boolean

6.4.8 Variables used for managing the operation of the state machines

Change the definition of the variable LACP_Enabled as follows:

LACP Enabled

This variable indicates that the Aggregation Port is operating the LACP. If the link is not a point-to-point link, or the LACP operation is disabled, the value of LACP_Enabled shall be FALSE. Otherwise, the value of LACP_Enabled shall be TRUE. Value: Boolean

tions

description of recordDefault as follows:

6.4.9 Functions

Change the description of recordDefault as follows:

recordDefault

This function records the default parameter values for the Partner carried in the Partner Admin (Partner Admin Port Number, Partner Admin Port Priority, parameters Partner_Admin_System, Partner_Admin_System_Priority, Partner_Admin_Key Partner_Admin_Port_State) as the current Partner_operational parameter Partner_Admin_Key, Partner Oper Port Priority, (Partner Oper Port Number, Partner Oper System, Partner Oper System Priority, Partner Oper Key, and Partner Oper Port State) and sets Actor Oper Port State. Defaulted and Partner Oper Port State. Synchronization to TRUE. It also sets the variables Link Number ID and Partner Link Number ID to the value of Admin Link Number ID.

Change the description of Enable Collecting as follows:

Enable Collecting

This function causes the Aggregator Parser of the Aggregator to which the Aggregation Port is attached to start collecting frames from the Aggregation Port. When Conversation-sensitive distribution is supported, this function also calls collection and updatePartnerDistributionAlgorithm function (6.6.2.4).

Change the description of Enable_Collecting_Distributing as follows:

Enable Collecting Distributing

This function causes the Aggregator Parser of the Aggregator to which the Aggregation Port is attached to start collecting frames from the Aggregation Port, and the Aggregator Multiplexer to start distributing frames to the Aggregation Port. When Conversation-sensitive collection and distribution is supported, this function also calls the updatePartnerDistributionAlgorithm function (6.6.2.4).

Change the description of recordVersionNumber as follows:

recordVersionNumber

This function records the Partner's LACP implementation version as carried in the received LACPDU's Version Number field and updates value the variable Partner LACPDU Version Number received with the value Partner LACPDU Version Number is 1:

The variables Link Number ID and Partner Link Number ID are both set to the value of Admin Link Number ID.

This function is only applicable to Version 2 or higher implementations of this protocol.

6.4.12 Receive machine

Replace Figure 6-18 with the following:

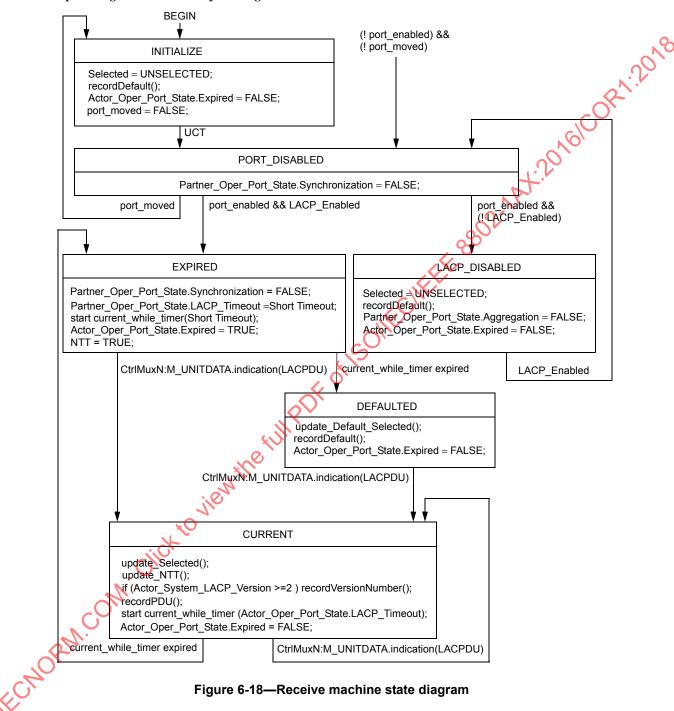


Figure 6-18—Receive machine state diagram

Change 6.4.14.2 as follows:

6.4.14.2 Selection Logic—Recommended default operation

The recommended default behavior provides an element of determinism (i.e., history independence) in the assignment of Aggregation Ports to Aggregators. It also has the characteristic that no additional MAC addresses are needed, over and above those already assigned to the set of underlying MACs.

NOTE—This standard does not specify any alternative selection rules beyond the recommended set. A wide variety of selection rules are possible within the scope of the requirements stated in 6.4.14.1. In particular, it is possible within these requirements to support implementations that provide fewer Aggregators than Aggregation Ports, as well as implementations designed to minimize configuration changes at the expense of less deterministic behavior.

Each Aggregation Port has an Aggregator associated with it, (i.e., the number of Aggregators in the System equals the number of Aggregation Ports supported). Each Aggregation Port/Aggregator pair is assigned the same operational Key and Port Number. When there are multiple Aggregation Ports in an aggregation, the Aggregator that the set of Aggregation Ports selects is the Aggregator with the same Port Number as the lowest-numbered Aggregation Port in the aggregation. Note that this lowest numbered Aggregation Port may not be in a state that allows data transfer across the link; however, it has selected the Aggregator in question. This is illustrated in Figure 6 20. In the default configuration, each Aggregation Port has an Aggregator associated with it (i.e., the number of Aggregators in the System equals the number of Aggregation Ports supported), and each Aggregation Port and each Aggregator is assigned the same operational Key value. This configuration may be altered to assign either of the following:

- a) Different Key values to different sets of Aggregation Ports when it is not possible or not desirable to place Aggregation Ports from the different sets into the same Link Aggregation Group, or
- b) A given Key value to fewer Aggregators than Aggregation Ports (e.g., to support dual-homed configurations described in 6.7.5).

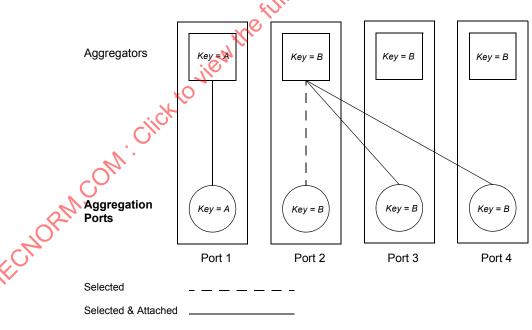


Figure 6-20—Selection of Aggregators

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If the Aggregation Port is Individual, then the Aggregator selected is always the Aggregation Port's own Aggregator. Otherwise, an Aggregator is selected from the set of Aggregators corresponding to the set of Aggregation Ports that will form the aggregation with the same operational Key value as the Aggregation Port. The Aggregator selected is the lowest numbered Aggregator with the same selection parameters as those of the Aggregation Port When multiple Aggregation Ports have the same selection parameters they will (61COR1.2018 <u>select the same Aggregator</u>. These selection parameters are as follows:

- a) Actor's System ID
- b) Actor's operational Key
- Partner's System ID c)
- d) Partner's operational Key
- Individual Aggregator state (which has to be FALSE) e)

Whenever possible, the Aggregator selected is the Aggregator associated with the lower numbered Aggregation Port in the set with the same selection parameters. Note that this lowest Numbered Aggregation Port may not be in a state that allows data transfer across the link; however, it has selected the Aggregator in question. This is illustrated in Figure 6-20. If it is not possible to select the Aggregator associated with the lowest numbered Aggregation Port (e.g., if the lowest numbered Aggregation Port and its associated Aggregator have different operational Key values), then the Aggregator selected can be any Aggregator with a matching Key value that has not been selected by any Aggregation Ports with Port Enabled set to True. If such an Aggregator cannot be found, then the Aggregation Port does not select an Aggregator until the situation changes and an appropriate Aggregator can be found. of 15011EC

Change 6.4.16 as follows:

6.4.16 Transmit machine

When the Transmit machine creates a LACPDU for transmission, it shall fill in the following fields with the corresponding operational values for this Aggregation Port:

- Actor_Port and Actor_Port_Priority a)
- Actor_System and Actor_System_Priority b)
- Actor Key c)
- Actor_State d)
- Partner Port and Partner Port Priority
- f) Partner System and Partner System Priority
- Partner Key g)
- Partner State h)
- CollectorMaxDelay i)

When the Periodic machine is in the NO PERIODIC state, the Transmit machine shall

Not transmit any LACPDUs, and

Set the value of NTT to FALSE.

When the LACP Enabled variable is TRUE and the NTT (6.4.7) variable is TRUE, the Transmit machine ensure that a properly formatted LACPDU (6.4.2) is transmitted [i.e., issue a CtrlMuxN:M UNITDATA.Request(LACPDU) service primitive], subject to the restriction that no more than three LACPDUs may be transmitted in any Fast Periodic Time interval. If NTT is set to TRUE when this limit is in force, the transmission shall be delayed until such a time as the restriction is no longer in force. The NTT variable shall be set to FALSE when the Transmit machine has transmitted a LACPDU.

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If the transmission of a LACPDU is delayed due to the preceding restriction, the information sent in the LACPDU corresponds to the operational values for the Aggregation Port at the time of transmission, not at the time when NTT was first set to TRUE. In other words, the LACPDU transmission model is based upon the transmission of state information that is current at the time an opportunity to transmit occurs, as opposed to queuing messages for transmission.

When the LACP_Enabled variable is FALSE, the Transmit machine shall not transmit any LACPDUs and shall set the value of NTT to FALSE.

In a Version 2 implementation, when enable_long_pdu_xmit and LongLACPDUtransmit are TRUE_the transmitted LACPDU will be a Long LACPDU shall include the Version 2 TLVs, formatted as defined in 6.4.2.4 6.4.2 and including the Port Conversation Mask TLVs (6.4.2.4.3). When LongLACPDUtransmit is TRUE, the LACPDU contains all four Port Oper Conversation Mask TLVs including the Port Oper Conversation Mask 1 field in the Port Conversation Mask-1 TLV. When LongLACPDUtransmit is FALSE, the LACPDU contains the Port Conversation Mask-1 TLV without the Port Oper Conversation Mask 1 field, and does not contain the Port Conversation Mask-2 TLV, Port Conversation Mask-3 TLV, or Port Conversation Mask-4 TLV.

Delete 6.4.18 in its entirety.

6.6 Conversation-sensitive frame collection and distribution

Change item d) as follows:

d) TLVs included in LACPDUs allow the Frame Distributor to specify which Conversation IDs are being transmitted on each Aggregation Port. The Frame Collector stores this information in the Collection Conversation Mask.

6.6.1 Conversation-sensitive collection and distribution state diagrams

6.6.1.1.1 Variables

Insert a new Admin_Discard_Wrong_Conversation variable as follows:

Admin_Discard_Wrong_Conversation

Provides administrative control over the Discard_Wrong_Conversation parameter that determines whether the Frame Collector discards any frame received from an Aggregation Port with a Port Conversation ID not set in Collection_Conversation_Mask. The variable is set equal to aAggAdminDiscardWrongConversation (7.3.1.1.37) and the default value is AUTO. Values:

FORCE_TRUE: The value of Discard_Wrong_Conversation is always TRUE. FORCE_FALSE: The value of Discard_Wrong_Conversation is always FALSE.

AUTO: The value of Discard_Wrong_Conversation is TRUE if all of Differ_Port_Algorithms, Differ_Port_Conversation_Digests, and

Differ Conversation Service Digests are FALSE, and is FALSE otherwise.

Change the description of Discard Wrong Conversation as follows:

Discard_Wrong_Conversation

Discard frames with incorrect Port Conversation IDs flag. If TRUE, the Frame Collector discards any frame received from an Aggregation Port with a Port Conversation ID not set in Collection Conversation Mask, and the Frame Distributor uses only the frame distribution algorithm selected by the aAggPortAlgorithm (7.3.1.1.33). If FALSE, the Frame Collector does not filter frames received from the Aggregation Ports. The variable is set to TRUE if Admin Discard Wrong Conversation FORCE TRUE. is Admin Discard Wrong Conversation is AUTO and all Differ Port Algorithms, Differ Port Conversation Digests Differ Conversation Service Digests are FALSE, and is set to FALSE otherwise aAggAdminDiseardWrongConversation (7.3.1.1.37).

Value: Boolean

6.6.1.5 State diagram

Replace Figure 6-29 with the following:

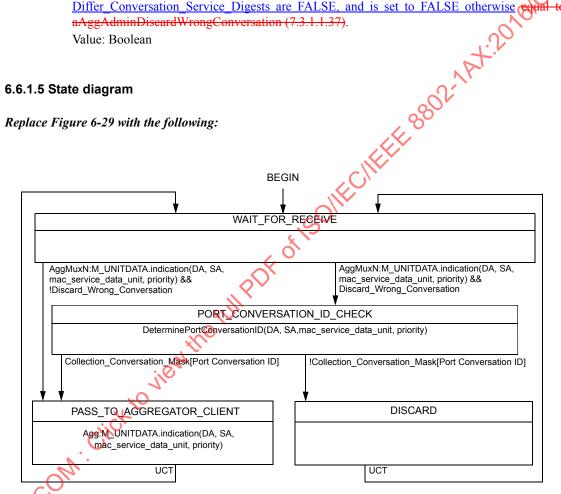


Figure 6-29—Conversation-sensitive collection state diagram

6.6.2 Conversation-sensitive LACP state diagrams

6.6.2.1 Per-Aggregator Variables

Change the description of Conversation_PortList[] as follows:

Conversation PortList[]

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This array holds the mapping of Port Conversation IDs to Aggregation Ports inside the System or Portal, derived from the primary aAggConversationAdminLink[] managed object. An array of 4096 lists, indexed by Conversation ID, that determines which Aggregation Port in this System (or Portal) attached to this Aggregator carries which Conversation ID. Each item in the array is a list of the Port IDs (6.3.4) of the Aggregation Ports in this System (or in this Portal, if this Aggregator is attached to a DR Function [9.3]), in priority order from most desired to least desired, for carrying the indexed Conversation ID. This variable is updated by the

Change the description of Partner Admin Port Algorithm as follows:

Partner_Admin_Port_Algorithm

The value for the algorithm of the Partner System, assigned by administrator or System policy for use when the Partner's information is unknown. Its default value is set to NULL "Unspecified" (Table 6-1).

Value: 4-octet (3-octet OUI or CID identifying the organization that is responsible for defining this algorithm followed by one octet identifying this specific algorithm).

Change the description of Partner Conversation PortList Digest as follows:

Partner_Conversation_PortList_Digest

The last-received digest of the Port assignments -most recently modified Partner Oper Conversation PortList Digest for any Aggregation Port active on this Aggregator.

Value: MD5 digest

Change the description of Partner Conversation Service Mapping Digest as follows:

Partner Conversation Service Mapping Digest

Port Conversation ID-to-Service most recently modified value Partner Oper Conversation Service Mapping Digest for any Aggregation Port active on this Aggregator.

Value: MD5 digest

Change the description of Partner Port Algorithm as follows:

Partner_Port_Algorithm

The last-received value of the algorithm used by the Partner System to assign frames to Port Conversation IDs most recently modified value of Partner Oper Port Algorithm for any Aggregation Port active on this Aggregator.

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Value: 4-octet (3-octet OUI or CID identifying the organization that is responsible for defining this algorithm followed by one octet identifying this specific algorithm).

6.6.2.2 Variables associated with each Aggregation Port

Change the description of ChangeActorOperDist as follows:

ChangeActorOperDist

This variable tracks the variable Actor_Oper_Port_State.Distributing. It sets the WTR_timer_to aAggPortWTRTime and is set to TRUE when the Actor_Oper_Port_State.Distributing changes from FALSE to TRUE and there is at least one Aggregation Port in the same LAG having a non NULL Port_Oper_Conversation_Mask. The variable is set to TRUE when the WTR_timer is not running and the Actor_Oper_Port_State.Distributing changes from TRUE to FALSE or when the WTR_timer expires and Actor_Oper_Port_State.Distributing is TRUE. This variable is also set to TRUE if new values for the aAggConversationAdminLink[] (7.3.1.1.35) or aAggAdminServiceConversationMap[] (7.3.1.1.38) are initiated. When the variable is set to TRUE, updateLocal is set to TRUE on all other Aggregation Ports attached to the same Aggregator. ChangeActorOperDist is set to FALSE by the updateConversationMask function.

Value: Boolean

Delete the variable Partner Admin Link Number ID.

Change the description of Partner DWC as follows.

Partner DWC

The last received most received value of the Partner System's DWC value.

Value: Boolean

Insert the descriptions of the following variables:

Actor Oper Conversation PortList Digest

The prioritized Port Conversation ID-to-Aggregation Port assignments of the Aggregator to which this Aggregation Port was most recently attached. The default value for an Aggregation Port that has not yet been attached to an Aggregator is NULL.

Value: MD5 digest

Actor Oper Conversation Service Mapping Digest

The Port Conversation ID-to-Service ID assignments of the Aggregator to which this Aggregation Port was most recently attached. The default value for an Aggregation Port that has not yet been attached to an Aggregator is NULL.

Value: MD5 digest

Actor Oper Port Algorithm

The algorithm to assign frames to Port Conversation IDs used by the Aggregator to which this Aggregation Port was most recently attached. The default value for an Aggregation Port that has not yet been attached to an Aggregator is "Unspecified" (Table 6-1).

Value: 4-octet (3-octet OUI or CID identifying the organization that is responsible for defining this algorithm followed by one octet identifying this specific algorithm).

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Partner Oper Conversation PortList Digest

The most recently recorded digest of the Partner System's prioritized Port Conversation ID-to-Aggregation Port assignments.

Value: MD5 digest

Partner_Oper_Conversation_Service_Mapping_Digest

The most recently recorded digest of the Partner System's Port Conversation ID-to-Service ID assignments.

Value: MD5 digest

Partner Oper Port Algorithm

The most recently recorded value of the algorithm used by the Partner System to assign frames to Port Conversation IDs.

Value: 4-octet (3-octet OUI or CID identifying the organization that is responsible for defining this algorithm followed by one octet identifying this specific algorithm).

Change the description of recordReceivedConversationMaskTLV as follows:

recordReceivedConversationMaskTLV

This function records the parameter received Port Con-This function records the parameter value for the ActPar Sync, DWC, and PSI carried in a received Port Conversation Mask-1 TLV (6.4.2.4.3) as the current operational parameter values for the Partner ActPar Sync, Partner DWC, and Partner PSI respectively.

> This function also concatenates the cvalue of Port Oper Conversation Mask 1, Port Oper Conversation_Mask_2, Port Oper Conversation Mask 3, Port Oper Conversation Mask 4 carried by the Port Conversation Mask-1 TLV, ..., etc. (6.4.2.4.3), and it records the concatenation as the current value for the Partner Oper Conversation Mask variable. If this function is implemented by a Portal System (Clause 9), it also records the parameter value for the PSI carried in a received Port 4.2.4.3) as the current operational parameter value for the Partner PSI.

> compares Port Oper Conversation Mask It then the variable the Partner Oper Conversation Mask and, if they are different:

It sets ActPar Sync to FALSE;

It sets updateLocal to TRUE;

It sets ActPar Sync to TRUE;

If Partner ActPar Sync is FALSE, sets updateLocal to TRUE.

Change the description of recordConversationPortDigestTLV as follows:

recordConversationPortDigestTLV

This function records the parameter value for the Link Number ID and the Actor_Conversation_LinkList_Digest carried in a received Port Conversation ID Digest TLV (6.4.2.4.2) as the current operational parameter value for the Partner Link Number ID and the Partner Conversation PortList Digest respectively.

It compares the newly updated value of the Partner Link Number Link Number ID and if they are different, then:

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The reportToManagement function is invoked to alert the Manager to the existence of a configuration error in the Aggregation ports selection choices for the Port Conversation IDs between the Systems or Portals at the ends of the LAG. In addition if this System's or Portal's Identifier is numerically larger than the Partner's, then

<u>Link_Number_ID == Partner_Link_Number_ID; and The function updateConversationPortList is invoked.</u>

If this System's or Portal's Identifier is numerically larger than the Partner's, then Link Number ID = Partner Link Number ID; otherwise, Link Number ID = Admin Link Number ID. If this results in a change to the value of Link Number ID while Actor Oper Port State. Distributing is TRUE, then Change Actor Oper Dist is set to TRUE so that the function update Conversation Port List will be invoked.

This function also records the *Actor Conversation LinkList Digest* carried in a received Port Conversation ID Digest TLV (6.4.2.4.2) as the current operational parameter value Partner Oper Conversation PortList Digest. If this results in a change to the value of Partner Oper Conversation PortList Digest and this Aggregation Port is ready to activate the link (i.e., if Actor Oper Port State.Synchronization is TRUE), then the newly recorded value of Partner Oper Conversation PortList Digest is copied to the Aggregator's Partner Conversation PortList Digest variable. The It then compares the newly updated value of the Partner Conversation PortList Digest is then compared to the value of Actor Conversation LinkList Digest and, if they are different.

The variable Differ_Port_Conversation_Digests is set to TRUE.

Otherwise:

The variable Differ_Port_Conversation_Digests is set to FALSE.

Change the description of recordConversationServiceMappingDigestTLV as follows:

recordConversationServiceMappingDigestTLV

This function records the parameter value for the *Actor_Conversation_Service_Mapping_Digest* carried in a received Port Conversation Service Mapping TLV (6.4.2.4.4) as the current operational parameter value for Partner_Conversation_Service_Mapping_Digest.

Partner Oper Conversation Service Mapping Digest.

If this results in a change to the value of Partner Oper Conversation Service Mapping Digest and this Aggregation Port is ready to activate the link (i.e., if Actor Oper Port State.Synchronization is TRUE), then the newly recorded value of Partner Oper Conversation Service Mapping Digest is copied to the Aggregator's Partner Conversation Service Mapping Digest variable. The It then compares the newly updated value of the Partner Conversation Service Mapping Digest and, if they are different:

The variable Differ_Conversation_Service_Digests is set to TRUE.

The variable Differ Conversation Service Digests is set to FALSE.

Change the description of recordDefaultConversationPortDigest as follows:

recordDefaultConversationPortDigest

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This function records the default parameter <u>values</u> <u>value</u> for the Partner <u>as foll ows:provided by the Partner_Admin_Conversation_PortList_Digest as the current Partner operational parameter value for Partner_Conversation_PortList_Digest.</u>

Partner_Admin_Conversation_PortList_Digest

== Partner Admin Conversation PortList Digest;

Partner Link Number ID -- Partner Admin Link Number ID.

It also initializes Link Number ID to its configured value as follows:

Link Number ID == Admin Link Number ID.

It also sets Differ Port Conversation Digests to FALSE.

Change the description of recordDefaultConversationServiceMappingDigest as follows:

record Default Conversation Service Mapping Digest

This function records the default parameter value for the Partner provided by the Partner_Admin_Conversation_Service_Mapping_Digest as the current Partner operational parameter value for Partner_Conversation_Service_Mapping_Digest to FALSE.

Change the description of recordDefaultPortAlgorithm as follows:

recordDefaultPortAlgorithm

This function records the default parameter value for the Partner provided by the Partner_Admin_Port_Algorithm as the current Partner operational parameter value for Partner Port Algorithm.

It also sets Differ Port Algorithms to FALSE.

Change the description of recordPortAlgorithmTLV as follows:

recordPortAlgorithmTLW

<u>This</u> function records the parameter value for the *Actor_Port_Algorithm* carried in a received Port Algorithm TLV (6.4.2.4.1) as the current operational parameter value for <u>Partner_Port_Algorithm</u> Partner_Oper_Port_Algorithm.

If this results in a change to the value of Partner Oper Port Algorithm and this Aggregation Port is ready to activate the link (i.e., if Actor Oper Port State.Synchronization is TRUE), then the newly recorded value of Partner Oper Port Algorithm is copied to the Aggregator's Partner Port Algorithm variable. The It then compares the newly updated value of the Partner Port Algorithm is then compared to the value of Actor Port Algorithm and if they are different or any of them has the value θ "Unspecified" (Table 6-1):

The variable Differ_Port_Algorithms is set to TRUE.

Otherwise:

The variable Differ Port Algorithms is set to FALSE.

Change the description of updateConversationMask as follows:

updateConversationMask

This function computes a new value for the Port_Oper_Conversation_Mask based on the Conversation PortList[].

It first computes a new Boolean vector for the Comp_Oper_Conversation_Mask to be used by this Aggregation Port as follows: For every indexed Port Conversation ID, the selection priority list for all Aggregation Ports in the same LAG, which is provided by Conversation PortList[], is checked to identify and exclude all Aggregation Ports for which the Actor Oper Port State. Distributing = FALSE (condition that covers the cases where the associated Aggregation Ports are either non operable (port enabled = FALSE), or in an I EXPIRED state, or not in the LAG) and all Aggregation Ports for which the WTR timer is running. The new Boolean vector for the Comp Oper Conversation Mask to be used by this Aggregation Port is computed based on this modified priority list by setting TRUE for every indexed Port Conversation ID that has the highest selection priority for this Aggregation Port. If this function is implemented by a Portal System (Clause 9) with its DRF Portal System Number value set to a value that is different than 1, its Portal's System Identifier set to a value that is numerically lower than the Partner's System Identifier, and PSI == Partner PSI == TRUE, then Comp Oper Conversation Mask is set to NULL. Such functionality is set to prohibit network partition when the Portal Systems in both interconnected Portals become isolated.

It then compares the value of Port_Oper_Conversation Mask to the new value of Comp_Oper_Conversation_Mask. If they are different:

It updates Collection Conversation Mask as follows

If ChangeAggregationPorts == TRUE of updateAllLocal == TRUE, or, when the function is implemented by a Portal System, IppAllUpdate == TRUE;

It sets the Collection_Conversation_Mask to the Boolean vector corresponding to the result of the logical AND operation between the Comp_Oper_Conversation_Mask and the current Collection Conversation_Mask;

Otherwise if ChangeAggregationPorts == FALSE and updateAllLocal == TRUE and, when the function is implemented by a Portal System, IppAllUpdate == FALSE; It sets Collection Conversation Mask = Comp Oper Conversation Mask;

It updates the Port_Oper_Conversation_Mask to the new-value-of-Boolean vector corresponding to the result of the logical AND operation between the Comp_Oper_Conversation_Mask and the current Port_Oper_Conversation_Mask, and sets ActPar_Syme to FALSE;

Otherwise:

it leaves Port Oper Conversation Mask and Collection Conversation Mask unmodified.

Finally Cit sets ChangeActorOperDist to FALSE and if enable_long_pdu_xmit If enable_long_pdu_xmit Enable_Long_PDU_Xmit is TRUE, and Partner_LACPDU_Version_Number is greater than or equal to 2, and ActPar_Sync or Partner_ActPar_Sync is FALSE, it starts the current_while_Long_LACP_timer, using Slow_Periodic_Time (6.4.4) as the start value; sets NTT to TRUE; and keeps the variable LongLACPDUtransmit TRUE until the timer's expiration.

Finally, it sets ChangeActorOperDist to FALSE.

Change the name of updateConvesationPortList as follows:

 $updateConve\underline{r} sationPortList$

Insert the following description of updatePartnerDistributionAlgorithm at the end of the subclause:

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updatePartnerDistributionAlgorithm

If Actor_Oper_Port_State.Defaulted is TRUE or if Partner_LACPDU_Version_Number is 1:

The current values of Partner_Admin_Port_Algorithm,

Partner Admin Conversation PortList Digest, and

Partner_Admin_Conversation_Service_Mapping_Digest are copied to the selected Aggregator's Partner_Port_Algorithm, Partner_Conversation_PortList_Digest, and Partner_Conversation_Service_Mapping_Digest variables respectively.

Otherwise, if selected is SELECTED and Partner_Oper_Port_State.Synchronization is TRUE:

The current values of Partner_Oper_Port_Algorithm,

Partner Oper Conversation PortList Digest,

Partner_Oper_Conversation_Service_Mapping_Digest are copied to the selected Aggregator's Partner_Port_Algorithm, Partner_Conversation_PortList_Digest and Partner_Conversation_Service_Mapping_Digest variables respectively.

The value of the Partner_Port_Algorithm is compared to the value of Actor Port_Algorithm and if they are different or any of them has the value "Unspecified" (Table 6-1):

The variable Differ Port Algorithms is set to TRUE.

Otherwise:

The variable Differ Port Algorithms is set to FALSE.

The value of the Partner_Conversation_PortList_Digest is compared to the value of Actor Conversation LinkList Digest and, if they are different:

The variable Differ Port Conversation Digests is set to TRUE.

Otherwise:

The variable Differ Port Conversation Digests is set to FALSE.

The value of the Partner_Conversation_Service_Mapping_Digest is compared to the value of Actor_Conversation_Service_Mapping_Digest and, if they are different:

The variable Differ_Conversation_Service_Digests is set to TRUE.

Otherwise:

The variable Differ Conversation Service Digests is set to FALSE.

6.6.2.5 Timers

Change 6.6.2.5 as follows:

current_while_Long_LACP_timer

This timer is used to indicate the transmission of Long LACPDUs. It is always started with the value Slow Periodic Time (6.4.4).

actor_CDS_churn_timer

This timer is used to detect Actor CDS churn states. It is started using the value Churn_Detection_Time (see 6.4.4).

partner_CDS_churn_timer

This timer is used to detect Partner CDS churn states. It is started using the value Churn_Detection_Time (see 6.4.4).

WTR timer

This timer is used to prevent frequent distribution changes due to an intermittent defect. It allows for a fixed period of time to clapse when the Actor_Oper_Port_State.Distributing changes from FALSE to TRUE before updating the Port_Oper_Conversation_Mask. It is started using the value aAggPortWTRTime (7.3.2.1.29).There is one per Aggregation Port.

The timers specified in this subclause have an implementation tolerance of \pm 250 ms.

6.6.2.7 State diagrams

Replace Figure 6-34 with the following:

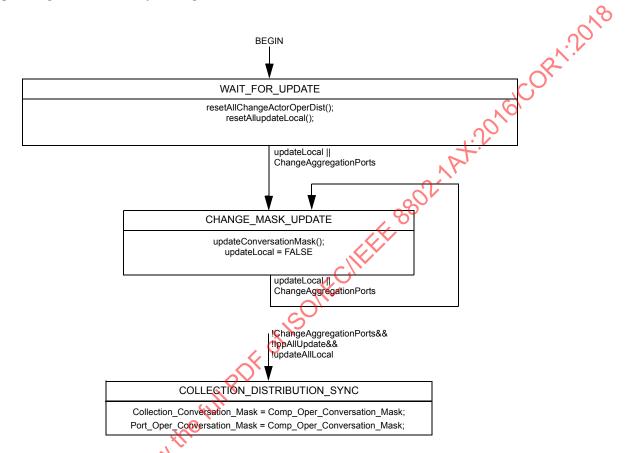


Figure 6-34—Update Mask state diagram

Insert new subclause 6.7.5 as follows:

6.7.5 LACP configuration for dual-homed Systems

A Link Aggregation System is said to be dual-homed (or multi-homed) when it has a set of Aggregation Ports intended to be connected to two (or more) Partner Systems with the restriction that only one LAG is formed from that set of Aggregation Ports. This restriction is achieved by configuring the Administrative Keys, and assigning the Operational Keys, such that:

- All Aggregation Ports in the set are allocated the same Operational Key value, and that value is different than the Operational Key value allocated to any Aggregation Ports that are not in the set;
- b) Only one Aggregator has an Operational Key value that is the same as the Operational Key value of the Aggregation Ports in the set.

The result is that only one Aggregator is available for the set of Aggregation Ports.

Figure 6-37 shows two examples of dual-homed systems. In Figure 6-37(a), the dual-homed System is connected to two different Partner Systems. In this case, the two Aggregation Ports cannot select the same Aggregator, and only one Aggregator is available, so the selection logic causes only one Aggregation Port of the set to be selected. The result is a single Link Aggregation Group that includes only one link and connects to only one of the Partner Systems. The Aggregation Port that is not initially selected is held in reserve. Should the link attached to the initially selected Aggregation Port fail, the other Aggregation Port will be selected for a new Link Aggregation Group that again includes only one link but connects to the other Partner System.

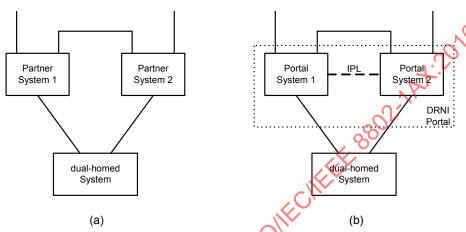


Figure 6-37—Dual-homed System examples

In Figure 6-37(b), the dual-homed System is connected to two different Portal Systems in a DRNI Portal (9.1). The normal DRNI operation allows both Portal Systems to present themselves as a single Partner System with the same Operational Key value on both links, resulting in both links become active in a single LAG. If the Intra-Portal Link (IPL) fails, however, the two Portal Systems will use different Operational Key values, which prevents both links from forming a single LAG. In this case, the restriction that the dual-homed system only has a single Aggregator available for these Aggregation Ports results in one Aggregation Port being SELECTED and the other UNSELECTED.

In both cases, the recommended default configuration of 6.4.14.2 would cause both links to become active in separate LAGs, with the resulting possibility of forming a data loop. Using the restricted configuration for a dual-homed System guarantees that no loop is formed without relying on any external loop prevention protocol.

7. Management

Replace Table 7-1 with the following:

Table 7-1—Link Aggregation capabilities

Г								DT	F				4
	Object name	Object type	Operations supported	Basic package (mandatory)	Mandatory package (mandatory)	Recommended package (optional)	Optional package (optional)		ebug information (optional)	Per-Service Frame Distribution package (optional)	DRNI package (optional)	IPP statistics (optional)	IPP debug information (optional)
οA	ggregator (7.3.1)	of)											
	aAggID	ATTRIBUTE	GET	Х									
	aAggDescription	ATTRIBUTE	GET		X								
Î	aAggName	ATTRIBUTE	GET-SET		Х								
	aAggActorSystemID	ATTRIBUTE	GET-SET		х								
	aAggActorSystemPriority	ATTRIBUTE	GET-SET		х								
	aAggAggregateOrIndividual **	ATTRIBUTE	GET		х								
	aAggActorAdminKey N	ATTRIBUTE	GET-SET		х								
	aAggActorOperKey	ATTRIBUTE	GET		х								
Ī	aAggMACAddress	ATTRIBUTE	GET		х								
	aAggPartnerSystemID	ATTRIBUTE	GET		х								
	aAggPartnerSystemPriority	ATTRIBUTE	GET		X								
	aAggPartnerOperKey	ATTRIBUTE	GET		X								
	aAggAdminState	ATTRIBUTE	GET-SET		X								
	aAggOperState	ATTRIBUTE	GET		X								
	aAggTimeOfLastOperChange	ATTRIBUTE	GET		X								
	aAggDataRate	ATTRIBUTE	GET		X								
S	aAggOctetsTxOK	ATTRIBUTE	GET			Χ							
忆	aAggOctetsRxOK	ATTRIBUTE	GET			Х							
	aAggFramesTxOK	ATTRIBUTE	GET		X								
	aAggFramesRxOK	ATTRIBUTE	GET		X								
	aAggMulticastFramesTxOK	ATTRIBUTE	GET				Χ						
	aAggMulticastFramesRxOK	ATTRIBUTE	GET				X						
	aAggBroadcastFramesTxOK	ATTRIBUTE	GET				X						
	aAggBroadcastFramesRxOK	ATTRIBUTE	GET				X						
	aAggFramesDiscardedOnTx	ATTRIBUTE	GET			Χ							
L	aAggFramesDiscardedOnRx	ATTRIBUTE	GET			X							

Table 7–1—Link Aggregation capabilities (continued)

				DTE								\neg	
	Object name	Object type	Operations supported	Basic package (mandatory)	Mandatory package (mandatory)	Recommended package (optional)	Optional package (optional)	Aggregation Port statistics (optional)	Aggregation Port debug information (optional)	Per-Service Frame Distribution package (optional)	II package	IPP statistics (optional)	IPP debug information (optional)
	aAggFramesWithTxErrors	ATTRIBUTE	GET			Х							
	aAggFramesWithRxErrors	ATTRIBUTE	GET			X							
	aAggUnknownProtocolFrames	ATTRIBUTE	GET			X							
	aAggLinkUpDownNotificationEnable	ATTRIBUTE .	GET-SET		Х								
	nAggLinkUpNotification	NOTIFICATION			Х								
	nAggLinkDownNotification	NOTIFICATION			Х								
	aAggPortList	ATTRIBUTE	GET			X							
	aAggCollectorMaxDelay	ATTRIBUTE	GET-SET		Х								
	aAggPortAlgorithm	ATTRIBUTE	GET-SET							Χ			
	aAggPartnerAdminPortAlgorithm	ATTRIBUTE	GET-SET							Χ			
	aAggConversationAdminLink[]	ATTRIBUTE	GET-SET							X			
	aAggPartnerAdminPortConversationListDigest	ATTRIBUTE	GET-SET							Χ			
	aAggAdminDiscardWrongConversation	ATTRIBUTE	GET-SET							Χ			
	aAggAdminServiceConversationMap[]	ATTRIBUTE	GET-SET							X			
	aAggPartnerAdminConvServiceMappingDigest	ATTRIBUTE	GET-SET							Χ			
	aAggPortEnableLongLACPDUXmit	ATTRIBUTE	GET-SET							Χ			
οA	ggregationPort (7.3.2)												
	aAggPortID	ATTRIBUTE	GET	Х									
	aAggPortActorSystemPriority	ATTRIBUTE	GET-SET		X								
	aAggPortActorSystemID	ATTRIBUTE	GET		X								
	aAggPortActorAdminKey	ATTRIBUTE	GET-SET		X								
	aAggPortActorOperKey	ATTRIBUTE	GET		X								
	aAggPortPartnerAdminSystemPriority	ATTRIBUTE	GET-SET		X								
-	aAggPortPartnerOperSystemPriority	ATTRIBUTE	GET		X								
₹	aAggPortPartnerAdminSystemID	ATTRIBUTE	GET-SET		X								
1	aAggPortPartnerOperSystemID	ATTRIBUTE	GET		X								
	aAggPortPartnerAdminKey	ATTRIBUTE	GET-SET		X								
	aAggPortPartnerOperKey	ATTRIBUTE	GET		X								
	aAggPortSelectedAggID	ATTRIBUTE	GET		X								
	aAggPortAttachedAggID	ATTRIBUTE	GET		X								
	aAggPortActorPort	ATTRIBUTE	GET		X								
	aAggPortActorPortPriority	ATTRIBUTE	GET-SET		X								
	aAggPortPartnerAdminPort	ATTRIBUTE	GET-SET		X								

Table 7–1—Link Aggregation capabilities (continued)

								DΊ	Έ				٦
	Object name	Object type	Operations supported	Basic package (mandatory)	Mandatory package (mandatory)	Recommended package (optional)	Optional package (optional)	Aggregation Port statistics (optional)	Aggregation Port debug information (optional)	Per-Service Frame Distribution package (optional)	DRNI package (optional)	IPP statistics (optional)	IPP debug information (optional)
a	AggPortPartnerOperPort	ATTRIBUTE	GET .	_	x	_	Ŭ	_	_	_	Ħ	₹	╕
a	AggPortPartnerAdminPortPriority	ATTRIBUTE	GET SET		Х							1	
a	AggPortPartnerOperPortPriority	ATTRIBUTE	GET		Х						П	\top	
a	AggPortActorAdminState	ATTRIBUTE	GET-SET		Х							\top	
a	AggPortActorOperState	ATTRIBUTE	GET		Х							\top	
	AggPortPartnerAdminState	ATTRIBUTE	GET-SET		Х							\top	
a	AggPortPartnerOperState	ATTRIBUTE	GET		Х							\top	
a	AggPortAggregateOrIndividual	ATTRIBUTE	GET		Х							\top	
a	AggPortOperConversationPasses	ATTRIBUTE	GET							Х		\top	
a	AggPortOperConversationCollected	ATTRIBUTE	GET							Х		T	
a	AggPortLinkNumberID	ATTRIBUTE	GET-SET							Х		T	
a	AggPortPartnerAdminLinkNumberID	ATTRIBUTE	GET-SET							Х		T	
	AggPortWTRTime	ATTRIBUTE	GET-SET							Х		\top	
a	AggPortProtocolDA	ATTRIBUTES	GET-SET		Х							T	
oAgg	PortStats (7.3.3)		1										٦
a	AggPortStatsID	ATTRIBUTE	GET					X				T	٦
a	AggPortStatsLACPDUsRx O	ATTRIBUTE	GET					X				T	٦
a	AggPortStatsMarkerPDUsRx	ATTRIBUTE	GET					X				T	٦
+ +	AggPortStatsMarkerResponsePDUsRx	ATTRIBUTE	GET					X			П		1
a	AggPortStatsUnknownRx	ATTRIBUTE	GET					Х					٦
a	AggPortStatsIllegalRx	ATTRIBUTE	GET					Х					٦
a	AggPortStatsLACPDUsTx	ATTRIBUTE	GET					X				T	٦
a	AggPortStatsMarkerPDUsTx	ATTRIBUTE	GET					Х					٦
a	AggPortStatsMarkerResponsePDUsTx	ATTRIBUTE	GET					Х					
oAgg	PortDebugInformation (7.3.4)												1
a	AggPortDebugInformationID	ATTRIBUTE	GET						X		П	T	٦
a	AggPortDebugRxState	ATTRIBUTE	GET						Х				٦
a	AggPortDebugLastRxTime	ATTRIBUTE	GET						Х				٦
a	AggPortDebugMuxState	ATTRIBUTE	GET						X			T	1
a	AggPortDebugMuxReason	ATTRIBUTE	GET						X			T	1
a	AggPortDebugActorChurnState	ATTRIBUTE	GET						X			T	٦
	AggPortDebugPartnerChurnState	ATTRIBUTE	GET						Х			\exists	1
a	AggPortDebugActorChurnCount	ATTRIBUTE	GET						Х		П	\exists	٦

Table 7–1—Link Aggregation capabilities (continued)

Γ								DI	Έ				٦
	Object name	Object type	Operations supported	Basic package (mandatory)	Mandatory package (mandatory)	Recommended package (optional)	Optional package (optional)	Aggregation Port statistics (optional)	Aggregation Port debug information (optional)	Per-Service Frame Distribution package (optional)	DRNI package (optional)	IPP statistics (optional)	IPP debug information (optional)
	aAggPortDebugPartnerChurnCount	ATTRIBUTE	GET /						Х		7	T	
	aAggPortDebugActorSyncTransitionCount	ATTRIBUTE	GET						X				
	aAggPortDebugPartnerSyncTransitionCount	ATTRIBUTE	GET						X				
	aAggPortDebugActorChangeCount	ATTRIBUTE	GET						X				
	aAggPortDebugPartnerChangeCount	ATTRIBUTE	GET						X				
	aAggPortDebugActorCDSChurnState	ATTRIBUTE	GET						X				
	aAggPortDebugPartnerCDSChurnState	ATTRIBUTE	GET						X				
	aAggPortDebugActorCDSChurnCount	ATTRIBUTE	GET						X				
	aAggPortDebugPartnerCDSChurnCount	ATTRIBUTE	GET						X				
оΣ	istributedRelay (7.4.1)												
	aDmilD	ATTRIBUTE	GET								X		
	aDrniDescription	ATTRIBUTE	GET								X		
	aDrniName	ATTRIBUTE	GET-SET								X		
	aDrniPortalAddr	ATTRIBUTE	GET-SET								X		
	aDrniPortalPriority	ATTRIBUTE	GET-SET								X		
	aDrniThreePortalSystem 1	ATTRIBUTE	GET-SET								X	_	
1	aDrniPortalSystemNumber O	ATTRIBUTE	GET-SET								X	_	
1	aDrniIntraPortalLinkList	ATTRIBUTE	GET-SET								X	_	
	aDrniAggregator	ATTRIBUTE	GET-SET								X	\perp	
	aDrniConvAdminGateway[]	ATTRIBUTE	GET-SET								X	\perp	
1	aDrniNeighborAdminConvGatewayListDigest	ATTRIBUTE	GET-SET								X	\dashv	_
1	aDrniNeighborAdminConvPortListDigest	ATTRIBUTE	GET-SET								X	4	
-	aDiniGatewayAlgorithm	ATTRIBUTE	GET-SET								X	4	\dashv
5	aDrniNeighborAdminGatewayAlgorithm	ATTRIBUTE	GET-SET								X	4	\dashv
太	aDrniNeighborAdminPortAlgorithm	ATTRIBUTE	GET-SET								Х	_	_
1	aDrniNeighborAdminDRCPState	ATTRIBUTE	GET-SET								X	4	4
-	aDrniEncapsulationMethod	ATTRIBUTE	GET-SET								X	\dashv	_
-	aDrnilPLEncapMap	ATTRIBUTE	GET-SET								X	\dashv	_
-	aDrniNetEncapMap	ATTRIBUTE	GET-SET								X	\dashv	_
-	aDrniDRPortConversationPasses	ATTRIBUTE	GET								X	\dashv	_
-	aDrniDRGatewayConversationPasses	ATTRIBUTE	GET								X	\dashv	_
-	aDmiPSI	ATTRIBUTE	GET								X	4	4
	aDrniPortConversationControl	ATTRIBUTES	GET-SET								Х		

Table 7–1—Link Aggregation capabilities (continued)

				DTE								
	Object name	Object type	Operations supported	Basic package (mandatory)	Mandatory package (mandatory)	Recommended package (optional)	Optional package (optional)	Aggregation Port statistics (optional)		Per-Service Frame Distribution package (optional)	URNI package (optional) IPP statistics (optional)	IPP debug information (optional)
	aDrniIntraPortalPortProtocolDA	ATTRIBUTES	GET-SET								X	
οD	istributedRelayIPP (7.4.2)											
	aIPPID	ATTRIBUTE	GET							7	X	
	aIPPPortConversationPasses	ATTRIBUTE	GET							7	X	
	aIPPGatewayConversationDirection	ATTRIBUTE	GET							7	X	
	aIPPAdminState	ATTRIBUTE	GET-SET								?	
	alPPOperState	ATTRIBUTE	GET								?	
	alPPTimeOfLastOperChange	ATTRIBUTE	GET							⊥'	?	
olF	PStats (7.4.3)),										
	alPPStatsID	ATTRIBUTE	GET								X	
	alPPStatsDRCPDUsRx	ATTRIBUTE	GET								X	
	alPPStatsIllegalRx	ATTRIBUTE	GET								X	
	alPPStatsDRCPDUsTx	ATTRIBUTE	GET							\perp	X	
olF	oIPPDebugInformation (7.4.4)											
	alPPDebugInformationID	ATTRIBUTE	GET						T			Х
	alPPDebugDRCPRxState	ATTRIBUTE	GET									X
	alPPDebugLastRxTime VO	ATTRIBUTE	GET									X
	alPPDebugDifferPortalReason	ATTRIBUTE	GET							Ш	\perp	X
Со	Common Attributes Template											
	aCMCounter	ATTRIBUTE	GET			Х	Χ	Х	Х		Х	Х

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Change 7.3.1.1.34 as follows:

7.3.1.1.34 aAggPartnerAdminPortAlgorithm

ATTRIBUTE

APPROPRIATE SYNTAX

A SEQUENCE OF OCTETS consisting of a 3-octet OUI or CID and one following octet.

ISO/IEC/IEEE 8802-1AX:2016/Cor.1:2018(E)

IEEE Std 802.1AX-2014/Cor 1-2017
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1

BEHAVIOR DEFINED AS

This object identifies the value for the algorithm of the Partner System, assigned by administrator or System policy for use when the Partner's information is unknown. Table 6-1 provides the IEEE 802.1 OUI (00-80-C2) Port Algorithm encodings. Its default value is set to NULL "Unspecified" (Table 6-4).

Change 7.3.1.1.35 as shown:

7.3.1.1.35 aAggConversationAdminLink[]

ATTRIBUTE

APPROPRIATE SYNTAX

An array of SEQUENCE OF INTEGERs that match the syntax of a Link Number ID ().

BEHAVIOR DEFINED AS

There are 4096 aAggConversationAdminLink[] variables, aAggConversationAdminLink[0] through aAggConversationAdminLink[4095], indexed by Port Conversation ID. Each contains administrative values of the link selection priority list for the referenced Port Conversation ID. This selection priority list is a sequence of Link Number IDs for each Port Conversation ID, in the order of preference, highest to lowest, for the corresponding link to carry that Port Conversation ID. A 16-bit zero value is used to indicate that no link is assigned to carry the associated Port Conversation ID.

NOTE 1—This mapping of Port Conversation IDs to Link Number IDs is the fundamental administrative input. An equivalent mapping of Port Conversation IDs to Port IDs [Conversation_PortList[] ()] is derived from this and used internally.

NOTE 2—When a network administrator issues a command for selection rules, provided by aAggConversationAdminLink[], and accompanied with a non-zero value for aAggPortWTRTime (7.3.2.1.29) for all associated Aggregation Ports, the ChangeActorOperDist is set as specified in 6.6.2.2. A value of 100 for the aAggPortWTRTime indicates a non-revertive mode of operation, and the WTR_timer will be kept to the value 100.

Change 7.3.1.1.37 as follows:

7.3.1.1.37 aAggAdminDiscardWrongConversation

ATTRIBUTE

APPROPRIATE SYNTAX

BOOLEANINTEGER {
 FORCE_TRUE (1),
 FORCE_FALSE (2),
 AUTO (3)
}

BEHAVIOR DEFINED AS

The administrative value that determines what whether the Aggregator does with discards a frame that is received from an Aggregation Port with a Port Conversation ID that is not included in the Collection_Conversation_Mask. The value "FORCE_TRUE" indicates that such frames are to be discarded, and the value "FORCE_FALSE" indicates that they such frames are to be forwarded, and the value AUTO indicates that such frames are to be discarded only when the actor and partner agree on the algorithms and

ISO/IEC/IEEE 8802-1AX:2016/Cor.1:2018(E)

IEEE Std 802.1AX-2014/Cor 1-2017 IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1

mapping tables used to map frames to Aggregation Ports. This variable needs to be set to "TRUE," if bidirectional congruity (8.2.1) is required. Its value is set to "TRUEAUTO" by default.

Change 7.3.2.1.28 as follows:

7.3.2.1.28 aAggPortPartnerAdminLinkNumberID

ATTRIBUTE

APPROPRIATE SYNTAX

INTEGER, 0 to 65535

BEHAVIOUR DEFINED AS:

This object has been deprecated. The value for the Link Number ID of the Partner System for this Aggregation Port, assigned by administrator or System policy for use when the Partner's information is unknown. Its default value is set to 0.

MaggPortEnableLongPDUXmit

UTE

RIATE SYNTAX

BOOLEAN

OUR DEFINED AS:

The value "TRUE" allows LACPDUs donoer than 110 coated at the partner's allows Laced the partner's information is unknown. Its default value is set to 0.

Insert a new managed object at the end of 7.3.2.1 as follows:

7.3.2.1.30 aAggPortEnableLongPDUXmit

ATTRIBUTE

APPROPRIATE SYNTAX

BEHAVIOUR DEFINED AS:

ECNORM. Click to view the full poly The value "TRUE" allows LACPDUs donger than 110 octets to be transmitted. The value "FALSE" allows the transmission of only fixed-size 110 octet LACPDUs. The default value

9. Distributed Resilient Network Interconnect

9.2 Distributed Relay

3802-1AT-2016/COR1-2018 Change the number of Figure 9-1—Distributed Relay: as seen by Systems A and B to Figure 9-3 as follows:

Figure 9-3—Distributed Relay: as seen by Systems A and B

9.3 Distributed Relay operation and procedures

9.3.2 Intra-Portal Link

Insert 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 subclauses ensures 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 use different Operational 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 Portative configured such that there is one and only one Aggregator with the same key value as the Aggregation Ports connected to the DRNI Portal (6.7.5).

9.4 Distributed Relay Control Protocol

9.4.3 DRCPDU structure and encoding

9.4.3.1 Transmission and representation of octets

Change item d) as follows:

When consecutive octets are used to represent a MAC address, the least significant bit of the first octet is assigned the value of the first bit of the MAC address, the next most significant bit the value of the second bit of the MAC address, and so on through the eighth bit. Similarly, the least significant through most significant bits of the second octet are assigned the value of the ninth through seventeenth sixteenth bits of the MAC address, and so on for all the octets of the MAC address.

9.4.14 DRCPDU Receive machine

Replace Figure 9-23 with the following:

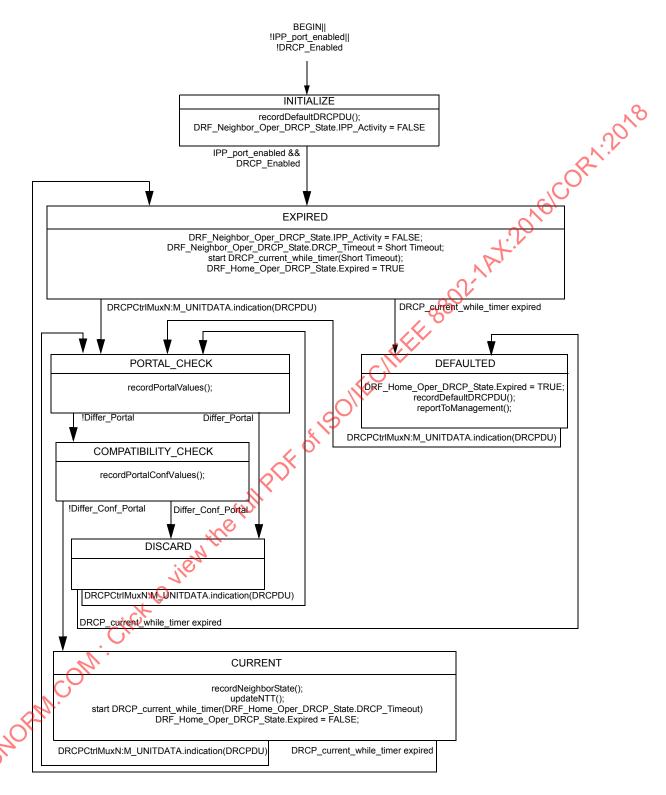


Figure 9-23—DRCPDU Receive machine state diagram

Annex D

(normative)

SMIv2 MIB definitions for Link Aggregation¹

Replace Table D.1 with the following:.

Table D.1—Managed object cross reference table

	+ 1
Definition in Clause 7	MIB object
7.3.1.1.1 aAggID	ifIndex value
7.3.1.1.4 aAggActorSystemID	dot3adAggActorSystemID
7.3.1.1.5 aAggActorSystemPriority	dot3adAggActorSystemPriority
7.3.1.1.6 aAggAggregateOrIndividual	dot3adAggAggregateOrIndividual
7.3.1.1.7 aAggActorAdminKey	dot3adAggActorAdminKey
7.3.1.1.8 aAggActorOperKey	doGadAggActorOperKey
7.3.1.1.10 aAggPartnerSystemID	dot3adAggPartnerSystemID
7.3.1.1.11 aAggPartnerSystemPriority	dot3adAggPartnerSystemPriority
7.3.1.1.12 aAggPartnerOperKey	dot3adAggPartnerOperKey
7.3.1.1.30 aAggPortList	dot3adAggPortListTable
7.3.1.1.32 aAggCollectorMaxDelay	dot3adAggCollectorMaxDelay
7.3.1.1.33 aAggPortAlgorithm	dot3adAggPortAlgorithm
7.3.1.1.34 aAggPartnerAdminPortAlgorithm	dot3adAggPartnerAdminPortAlgorithm
7.3.1.1.35 aAggConversationAdminLink[]	dot3adAggConversationAdminLinkTable
7.3.1.1.36 aAggPartnerAdminPortConversationListDigest	dot3adAggPartnerAdminPortConversationListDigest
7.3.1.1.37 aAggAdminDiscardWrongConversation	dot3adAggAdminDiscardWrongConversation2
7.3.1.1.38 aAggAdminServiceConversationMap[]	dot3adAggAdminServiceConversationMapTable
7.3.17.39 aAggPartnerAdminConvServiceMappingDigest	dot3adAggPartnerAdminConvServiceMappingDigest
332.1.1 aAggPortID	ifIndex value
7.3.2.1.2 aAggPortActorSystemPriority	dot3adAggPortActorSystemPriority
7.3.2.1.3 aAggPortActorSystemID	dot3adAggPortActorSystemID
7.3.2.1.4 aAggPortActorAdminKey	dot3adAggPortActorAdminKey
7.3.2.1.5 aAggPortActorOperKey	dot3adAggPortActorOperKey

¹Copyright release for SMIv2 MIB: Users of this standard may freely reproduce the SMIv2 MIB in this annex so it can be used for its intended purpose

Table D.1—Managed object cross reference table (continued)

Definition in Clause 7	MIB object			
7.3.2.1.6 aAggPortPartnerAdminSystemPriority	dot3adAggPortPartnerAdminSystemPriority			
7.3.2.1.7 aAggPortPartnerOperSystemPriority	dot3adAggPortPartnerOperSystemPriority			
7.3.2.1.8 aAggPortPartnerAdminSystemID	dot3adAggPortPartnerAdminSystemID			
7.3.2.1.9 aAggPortPartnerOperSystemID	dot3adAggPortPartnerOperSystemID			
7.3.2.1.10 aAggPortPartnerAdminKey	dot3adAggPortPartnerAdminKey			
7.3.2.1.11 aAggPortPartnerOperKey	dot3adAggPortPartnerOperKey			
7.3.2.1.12 aAggPortSelectedAggID	dot3adAggPortSelectedAggID			
7.3.2.1.13 aAggPortAttachedAggID	dot3adAggPortAttachedAggID			
7.3.2.1.14 aAggPortActorPort	dot3adAggPortActorPort			
7.3.2.1.15 aAggPortActorPortPriority	dot3adAggPortActorPortPriority			
7.3.2.1.16 aAggPortPartnerAdminPort	dot3adAggPortPartnerAdminPort			
7.3.2.1.17 aAggPortPartnerOperPort	dot3adAggPortPartnerOperPort			
7.3.2.1.18 aAggPortPartnerAdminPortPriority	dot3adAggPortPartnerAdminPortPriority			
7.3.2.1.19 aAggPortPartnerOperPortPriority	dot3adAggPortPartnerOperPortPriority			
7.3.2.1.20 aAggPortActorAdminState	dot3adAggPortActorAdminState			
7.3.2.1.21 aAggPortActorOperState	dot3adAggPortActorOperState			
7.3.2.1.22 aAggPortPartnerAdminState	dot3adAggPortPartnerAdminState			
7.3.2.1.23 aAggPortPartnerOperState	dot3adAggPortPartnerOperState			
7.3.2.1.24 aAggPortAggregateOrIndividua	dot3adAggPortAggregateOrIndividual			
7.3.2.1.25 aAggPortOperConversationPasses	dot3adAggPortOperConversationPasses			
7.3.2.1.26 aAggPortOperConversationCollected	dot3adAggPortOperConversationCollected			
7.3.2.1.27 aAggPortLinkNumberID	dot3adAggPortLinkNumberId			
7.3.2.1.28 aAggPortPartnerAdminLinkNumberID	dot3adAggPortPartnerAdminLinkNumberId			
7.3.2.1.29 aAggPortWTRTime	dot3adAggPortWTRTime			
7.3.2.1.30 aAggPortEnableLongPDUXmit	dot3adAggPortEnableLongPDUXmit			
7.3.2.2 TaAggPortProtocolDA	dot3adAggPortProtocolDA			
7.3.3.1.1 aAggPortStatsID	ifIndex value			
7.3.3.1.2 aAggPortStatsLACPDUsRx	dot3adAggPortStatsLACPDUsRx			
7.3.3.1.3 aAggPortStatsMarkerPDUsRx	dot3adAggPortStatsMarkerPDUsRx			
7.3.3.1.4 aAggPortStatsMarkerResponsePDUsRx	dot3adAggPortStatsMarkerResponsePDUsRx			
7.3.3.1.5 aAggPortStatsUnknownRx	dot3adAggPortStatsUnknownRx			
7.3.3.1.6 aAggPortStatsIllegalRx	dot3adAggPortStatsIllegalRx			

Table D.1—Managed object cross reference table (continued)

Definition in Clause 7	MIB object
7.3.3.1.8 aAggPortStatsMarkerPDUsTx	dot3adAggPortStatsMarkerPDUsTx
7.3.3.1.9 aAggPortStatsMarkerResponsePDUsTx	dot3adAggPortStatsMarkerResponsePDUsTx
7.3.4.1.1 aAggPortDebugInformationID	ifIndex value (see IETF RFC 2863) of the port
7.3.4.1.2 aAggPortDebugRxState	dot3adAggPortDebugRxState
7.3.4.1.3 aAggPortDebugLastRxTime	dot3adAggPortDebugLastRxTime
7.3.4.1.4 aAggPortDebugMuxState	dot3adAggPortDebugMuxState
7.3.4.1.5 aAggPortDebugMuxReason	dot3adAggPortDebugMuxReason
7.3.4.1.6 aAggPortDebugActorChurnState	dot3adAggPortDebugActorChurnState
7.3.4.1.7 aAggPortDebugPartnerChurnState	dot3adAggPortDebugPartnerChurnState
7.3.4.1.8 aAggPortDebugActorChurnCount	dot3adAggPortDebugActorChurnCount
7.3.4.1.9 aAggPortDebugPartnerChurnCount	dot3adAggPortDebugPartnerChurnCount
7.3.4.1.10 aAggPortDebugActorSyncTransitionCount	dot3adAggPortDebugActorSyncTransitionCount
7.3.4.1.11 aAggPortDebugPartnerSyncTransitionCount	dot3adAggPortDebugPartnerSyncTransitionCount
7.3.4.1.12 aAggPortDebugActorChangeCount	dot3adAggPortDebugActorChangeCount
7.3.4.1.13 aAggPortDebugPartnerChangeCount	dot3adAggPortDebugPartnerChangeCount
7.3.4.1.14 aAggPortDebugActorCDSChurnState	dot3adAggPortDebugActorCDSChurnState
7.3.4.1.15 aAggPortDebugPartnerCDSChurnState	dot3adAggPortDebugPartnerCDSChurnState
7.3.4.1.16 aAggPortDebugActorCDSChurnCount	dot3adAggPortDebugActorCDSChurnCount
7.3.4.1.17 aAggPortDebugPartnerCDSChurnCount	dot3adAggPortDebugPartnerCDSChurnCount
7.4.1.1.1 aDmiID	ifIndex value
7.4.1.1.2 aDrniDescription	dot3adDrniDescription
7.4.1.1.3 aDrniName	dot3adDrniName
7.4.1.1.4 aDrniPortalAddr	dot3adDrniPortalAddr
7.4.1.1.5 aDrniPortalPriority	dot3adDrniPortalPriority
7.4.1.1.6 aDmiThreePortalSystem	dot3adDrniThreePortalSystem
7.4.1.17 aDrniPortalSystemNumber	dot3adDrniPortalSystemNumber
7.4.1,1.8 aDrniIntraPortalLinkList	dot3adDrniIntraPortalLinkList
7.4.1.1.9 aDrniAggregator	dot3adDrniAggregator
7.4.1.1.10 aDrniConvAdminGateway[]	dot3adDrniConvAdminGatewayTable
7.4.1.1.11 aDrniNeighborAdminConvGatewayListDigest	dot3adDrniNeighborAdminConvGatewayListDigest
7.4.1.1.12 aDrniNeighborAdminConvPortListDigest	dot3adDrniNeighborAdminConvPortListDigest
7.4.1.1.13 aDrniGatewayAlgorithm	dot3adDrniGatewayAlgorithm
7.4.1.1.14 aDrniNeighborAdminGatewayAlgorithm	dot3adDrniNeighborAdminGatewayAlgorithm

Table D.1—Managed object cross reference table (continued)

Definition in Clause 7	MIB object
7.4.1.1.15 aDrniNeighborAdminPortAlgorithm	dot3adDrniNeighborAdminPortAlgorithm
7.4.1.1.16 aDrniNeighborAdminDRCPState	dot3adDrniNeighborAdminDRCPState
7.4.1.1.17 aDrniEncapsulationMethod	dot3adDrniEncapsulationMethod
7.4.1.1.18 aDrniIPLEncapMap	dot3adDrniIPLEncapMapTable
7.4.1.1.19 aDrniNetEncapMap	dot3adDrniNetEncapMapTable
7.4.1.1.20 aDrniDRPortConversationPasses	dot3adDrniDRPortConversationPasses
7.4.1.1.21 aDrniDRGatewayConversationPasses	dot3adDrniDRGatewayConversationPasses
7.4.1.1.22 aDrniPSI	dot3adDrniPSI
7.4.1.1.23 aDrniPortConversationControl	dot3adDrniPortConversationControl
7.4.1.1.24 aDrniIntraPortalPortProtocolDA	dot3adDrniIntraPortalPortProtocolDA
7.4.2.1.2 aIPPPortConversationPasses	dot3adIPPPortConversationPasses
7.4.2.1.3 aIPPGatewayConversationDirection	dot3adIPPGatewayConversationDirection
7.4.2.1.4 aIPPAdminState	dot3adDrtt1PPAdminState
7.4.2.1.5 aIPPOperState	dot3adQrniIPPOperState
7.4.2.1.6 aIPPTimeOfLastOperChange	dot3adDrniIPPTimeOfLastOperChange
7.4.3.1.1 aIPPStatsID	ifIndex value
7.4.3.1.2 aIPPStatsDRCPDUsRx	dot3adDrniIPPStatsDRCPDUsRx
7.4.3.1.3 aIPPStatsIllegalRx	dot3adDrniIPPStatsIllegalRx
7.4.3.1.4 aIPPStatsDRCPDUsTx	dot3adDrniIPPStatsDRCPDUsTx
7.4.4.1.1 aIPPDebugInformationID	ifIndex value
7.4.4.1.2 aIPPDebugDRCPRxState	dot3adDrniIPPDebugDRCPRxState
7.4.4.1.3 aIPPDebugLastRxTime	dot3adDrniIPPDebugLastRxTime
7.4.4.1.4 aIPPDebugDifferPortalReason	dot3adIPPDebugDifferPortalReason

Definitions for L. Change the MIB as follows: **D.6 Definitions for Link Aggregation MIB**

```
IEEE8023-LAG-MIB DEFINITIONS ::= BEGIN
-- IEEE 802.1AX MIB
                                          ECILEEE 8802-1 AT: 2016 COR1: 201
IMPORTS
   MODULE-IDENTITY, OBJECT-TYPE, Counter32, Counter64, Integer32,
            TimeTicks, NOTIFICATION-TYPE
       FROM SNMPv2-SMI
   DisplayString, MacAddress, TEXTUAL-CONVENTION, TruthValue
       FROM SNMPv2-TC
   MODULE-COMPLIANCE, OBJECT-GROUP, NOTIFICATION-GROUP
       FROM SNMPv2-CONF
    InterfaceIndex
       FROM IF-MIB
    PortList
       FROM Q-BRIDGE-MIB
    SnmpAdminString
       FROM SNMP-FRAMEWORK-MIB
lagMIB MODULE-IDENTITY
   LAST-UPDATED "201412180000Z" "201610120000Z"
    ORGANIZATION "IEEE 802.1 Working Group"
    CONTACT-INFO
          " WG-URL: http://grouper.ieee.org/groups/www.ieee802.org/1/
index.html
         WG-EMail: stds-802-1@ieee.org
          Contact: IEEE 802.1 Working Group Chair
           Postal: C/O TEEE 802.1 Working Group
                   IEEE Standards Association
                   445 Hoes Lane
                   Piscataway
                   NJ 08854<del>5-1331</del>
          E-mail: STDS-802-1-L@LISTSERV.IEEE.ORG"
    DESCRIPTION
        "The Link Aggregation module for managing IEEE 802.1AX-2014 as
      updated by IEEE 802.1AX-2014-Cor1."
    REVISION "201610120000Z"
    DESCRIPTION
        "The Link Aggregation module for managing IEEE 802.1AX-REV."
    REVISION "201412180000Z"
        "The Link Aggregation module for managing IEEE 802.1AX."
   REVISION "201201160000Z"
   DESCRIPTION
        "Updated for IEEE 802.1AXbk"
   REVISION "200706290000Z"
```

```
DESCRIPTION
         "References updated 04 Jun 2007 for IEEE 802.1AX"
    REVISION "200006270000Z"
    DESCRIPTION
        Partner Key value."
...teger32 (0..65535)

::= TEXTUAL-CONVENTION
CTUS current
CRIPTION
"The Actor and Partner State values from the
RENCE
"7.3.2.1.20"
X BITS {
    lacpActivity of lacpTimeout
    aggregat*
    synch
         "Original publication IEEE 802.3ad"
    ::= { iso(1) member-body(2) us(840) ieee802dot3(10006) snmpmibs(300)
43 }
-- -----
-- Textual Conventions
LacpKey ::= TEXTUAL-CONVENTION
    DISPLAY-HINT "d"
    STATUS
    DESCRIPTION
    SYNTAX
LacpState ::= TEXTUAL-CONVENTION
    STATUS
    DESCRIPTION
    REFERENCE
    SYNTAX
                      distributing(5),
                      defaulted(6),
                     expired(7)
DrcpState :: TEXTUAL-CONVENTION
    STATUS (
                 current
    DESCRIPTION
         "Administrative values of DRCP state."
                  BITS {
                      homeGateway(0),
                      neighborGateway(1),
                      otherGateway(2),
                      ippActivity(3),
                      timeout(4),
                      gatewaySync(5),
                      portSync(6),
                      expired(7)
ChurnState ::= TEXTUAL-CONVENTION
```

```
STATUS
                current
    DESCRIPTION
        "The state of the Churn Detection machine."
             INTEGER {
                                              #### 8802.1AT.2016|COR1.2018
| Ter
| Ter
                    noChurn(1),
                    churn(2),
                    churnMonitor(3) -- deprecated
}
AggState ::= TEXTUAL-CONVENTION
    STATUS
              current
    DESCRIPTION
        "The state of the object entry."
    SYNTAX
              INTEGER {
                    up(1),
                    down(2)
                }
DrniConvAdminGatewayList ::= TEXTUAL-CONVENTION
   DISPLAY-HINT "1x,"
   STATUS
             current
   DESCRIPTION
        "The three elements of the octet string represent the
        three portal system numbers in order of priority with
       highest priority first."
             OCTET STRING (SIZE (3)
    SYNTAX
PortalLinkList ::= TEXTUAL-CONVENTION
   DISPLAY-HINT "4d,"
    STATUS current
    DESCRIPTION
        "Each four octets of the octet string represent an
        ifIndex for an Intra-Port Link. The first ifIndex is
        to Portal System 1, the second if Index is to Portal
        System 2 and the third if Index is to portal System 3.
       The ifIndex of the current portal system is set to zero."
               OCTET STRING (SIZE (12))
ServiceIdList := TEXTUAL-CONVENTION
    DISPLAY-HINT "4d,"
    STATUS.
             current
    DESCRIPTION
       "A list which contains, in general, a set of Service IDs
        (8.2.2). If the Service IDs are representing VIDs, only a
        single VID is applicable, while in the case that Service IDs
        are representing I-SIDs, more than one I-SIDs are possible.
        Each four octets represent a Service ID which may either be
        I-SID or VID. An empty set is represented as an octet string
       of size zero."
              OCTET STRING
    SYNTAX
-- subtrees in the LAG MIB
```

```
lagMIBNotifications OBJECT IDENTIFIER ::= { lagMIB 0 }
lagMIBObjects OBJECT IDENTIFIER
                                 ::= { laqMIB 1 }
dot3adAggConformance OBJECT IDENTIFIER ::= { lagMIB 2 }
      dot3adAgg OBJECT IDENTIFIER
dot3adAggPort OBJECT IDENTIFIER
dot3adDrni OBJECT IDENTIFIER
dot3adIPP OBJECT IDENTIFIER
__ ______
-- The Tables Last Changed Object
dot3adTablesLastChanged OBJECT-TYPE
   SYNTAX TimeTicks
   MAX-ACCESS read-only
   STATUS current
   DESCRIPTION
::= { lagMIBObjects 3 }
-- The Aggregator Configuration Table
-- -----
dot3adAggTable OBJECT-TYPE
   SYNTAX SEQUENCE OF Dot3adAggEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
      "A table that contains information about every
      Aggregator that is associated with this System."
   REFERENCE "7.3.1"
   ::= { dot3adAgg 1 }
dot3adAggEntry OBJECT-TYPE
   SYNTAX Dot3adAggEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
      "A list of the Aggregator parameters. This is indexed
      by the ifIndex of the Aggregator."
   INDEX { dot3adAggIndex }
   ::= { dot3adAggTable 1 }
Dot3adAggEntry ::=
   SEQUENCE {
      dot3adAggIndex
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
            InterfaceIndex,
        dot3adAggMACAddress
            MacAddress,
                                     SOILE CHEEFE 8802-1AT-2016 COR1.2018
        dot3adAggActorSystemPriority
            Integer32,
        dot3adAggActorSystemID
            MacAddress,
        dot3adAggAggregateOrIndividual
            TruthValue,
        dot3adAggActorAdminKey
            LacpKey,
        dot3adAggActorOperKey
            LacpKey,
        dot3adAggPartnerSystemID
            MacAddress,
        dot3adAggPartnerSystemPriority
            Integer32,
        dot3adAggPartnerOperKey
            LacpKey,
        dot3adAggCollectorMaxDelay
            Integer32
    }
dot3adAqqIndex OBJECT-TYPE
               InterfaceIndex
   MAX-ACCESS not-accessible
                current
    STATIIS
   DESCRIPTION
        "The unique identifier allocated to this Aggregator by the
        local System. This attribute identifies an Aggregator instance
        among the subordinate managed objects of the containing object.
        This value is read-only. NOTE-The aAggID is represented in the
        SMIv2 MIB as an ifindex-see D.4.1."
    REFERENCE
        "7.3.1.1.1"
    ::= { dot3adAggEntry 1 }
dot3adAggMACAddress OBJECT-TYPE
    SYNTAX ()
               MacAddress
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "A 6-octet read-only value carrying the individual
        MAC address assigned to the Aggregator."
    REFERENCE
        "7.3.1.1.9"
    ::= { dot3adAggEntry 2 }
dot3adAggActorSystemPriority OBJECT-TYPE
                Integer32 (0..65535)
    SYNTAX
   MAX-ACCESS read-write
    STATUS
                current
```

IEEE Std 802.1AX-2014/Cor 1-2017

```
"A 2-octet read-write value indicating the priority value
        associated with the Actor's System ID."
    REFERENCE
       "7.3.1.1.5"
    ::= { dot3adAggEntry 3 }
dot3adAggActorSystemID OBJECT-TYPE
    SYNTAX
               MacAddress
   MAX-ACCESS read-write
    STATUS
               current
    DESCRIPTION
        "A 6-octet read-write MAC address value used as a unique
        identifier for the System that contains this Aggregator
       NOTE-From the perspective of the Link Aggregation
       mechanisms described in Clause 6, only a single
       combination of Actor's System ID and System Priority are
        considered, and no distinction is made between the
       values of these parameters for an Aggregator and the
       port(s) that are associated with it; i.e. the protocol
       is described in terms of the operation of aggregation
       within a single System. However, the managed objects
       provided for the Aggregator and the port both allow
       management of these parameters. The result of this is to
       permit a single piece of equipment to be configured by
       management to contain more than one System from the
        point of view of the operation of Link Aggregation. This
        may be of particular use in the configuration of
        equipment that has limited aggregation capability (see 6.7)."
    REFERENCE
       "7.3.1.1.4"
    ::= { dot3adAggEntry
dot3adAggAggregateOrIndividual OBJECT-TYPE
              FruthValue read-only
   MAX-ACCESS
            ..C
    STATUS
                current
    DESCRIPTION
        "A read-only Boolean value indicating whether the
       Aggregator represents an Aggregate ('TRUE') or
       an Individual link ('FALSE')."
    REFERENCE
        "7.3.1.1.6"
    ::= { dot3adAggEntry 5 }
dot3adAggActorAdminKey OBJECT-TYPE
    SYNTAX
               LacpKey
               read-write
   MAX-ACCESS
    STATUS
                 current
    DESCRIPTION
        "The current administrative value of the Key for the
```

Aggregator. The administrative Key value may differ from the operational Key value for the reasons discussed in 6.7.2. This is a 16-bit read-write value. The meaning of particular Key values is of local significance. For an Aggregator that is 8802.1AT:20161COR1:2018 associated with a Portal, the aAggActorAdminKey has to be different for each Portal System. Specifically the two most significant bits are set to aDrniPortalSystemNumber (7.4.1.1.7). The lower 14 bits may be any value, have to be the same in each Portal System within the same Portal, and have a default of zero." REFERENCE "7.3.1.1.7" ::= { dot3adAqqEntry 6 } dot3adAggActorOperKey OBJECT-TYPE SYNTAX LacpKey MAX-ACCESS read-only STATUS current DESCRIPTION "The current operational value of the Key for the Aggregator. The administrative Key value may differ from the operational Key value for the reasons discussed in 6.7.2. This is a 16-bit read-only value. The meaning of particular Key values is of local significance." REFERENCE "7.3.1.1.8" ::= { dot3adAggEntry 7 } dot3adAggPartnerSystemID OBJECT SYNTAX MacAddress MAX-ACCESS read-only current STATUS DESCRIPTION "A 6-octet read-only MAC address value consisting of the unique identifier for the current protocol Partner of this Aggregator. A value of zero indicates that there is no known Partner. If the aggregation is manually configured, this System ID value will be a value assigned by the local System." REFERENCE **47**.3.1.1.10" dot3adAggEntry 8 } 3adAggPartnerSystemPriority OBJECT-TYPE Integer32 (0..65535) MAX-ACCESS read-only STATUS current DESCRIPTION "A 2-octet read-only value that indicates the priority value associated with the Partner's System ID. If the aggregation is manually configured, this System Priority value

will be a value assigned by the local System."

```
REFERENCE
         "7.3.1.1.11"
    ::= { dot3adAggEntry 9 }
        Aggregator's current protocol Partner. This is a 16-bit read-only value. If the aggregation is manually configured this Key value will be a value assigned by the local System "ERENCE "7.3.1.1.12" { dot3adAggEntry 10 }
dot3adAggPartnerOperKey OBJECT-TYPE
    SYNTAX
    MAX-ACCESS
    STATUS
    DESCRIPTION
    REFERENCE
    ::= { dot3adAggEntry 10 }
dot3adAggCollectorMaxDelay OBJECT-TYPE
    SYNTAX
                 Integer32 (0..65535)
    MAX-ACCESS
                  read-write
    STATUS
                   current
    DESCRIPTION
         "The value of this 16-bit read-write attribute defines
         the maximum delay, in tens of microseconds, that
         may be imposed by the Frame Collector between
         receiving a frame from an Aggregator Parser, and
         either delivering the frame to its Aggregator Client
         or discarding the frame (see 6.2.3.1.1)."
    REFERENCE
         "7.3.1.1.32"
    ::= { dot3adAggEntry
   The Aggregation Port List Table
dot3adAggPortListTable OBJECT-TYPE
    SYNTAX
                  SEQUENCE OF Dot3adAggPortListEntry
    MAX-ACCESS
                 not-accessible
    STATUS
                  current
    DESCRIPTION
         "A table that contains a list of all the ports
         associated with each Aggregator."
         "7.3.1.1.30"
    ::= { dot3adAgg 2 }
dot3adAggPortListEntry OBJECT-TYPE
             Dot3adAggPortListEntry
    MAX-ACCESS not-accessible
```

```
STATUS
               current
    DESCRIPTION
        "A list of the ports associated with a given Aggregator.
        This is indexed by the ifIndex of the Aggregator."
    INDEX { dot3adAggIndex }
    ::= { dot3adAggPortListTable 1 }
Dot3adAggPortListEntry ::=
    SEQUENCE {
       dot3adAggPortListPorts
           PortList
dot3adAqqPortListPorts OBJECT-TYPE
    SYNTAX PortList
   MAX-ACCESS read-only
    STATUS current
    DESCRIPTION
        "The complete set of ports currently associated with
        this Aggregator. Each bit set in this list represents
        an Actor Port member of this Link Aggregation."
    REFERENCE
       "7.3.1.1.30"
    ::= { dot3adAqqPortListEntry 1 }
-- -----
-- The Aggregation Extension Table
__ _____
dot3adAggXTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Dot3adAggXEntry
    MAX-ACCESS not-accessible
    STATUS current
DESCRIPTION
    DESCRIPTION
        "A table that extends dot3adAggTable."
        "7.3.1.1,"
    ::= { dot3adAgg 3 }
dot3adAggXEntry OBJECT-TYPE
    SYNTAX Dot3adAggXEntry
MAX ACCESS not-accessible
             current
    STATUS
    DESCRIPTION
        "A list of extension parameters for the Aggregator
        Configuration Table"
    AUGMENTS { dot3adAggEntry }
    ::= { dot3adAggXTable 1 }
Dot3adAggXEntry ::=
    SEQUENCE {
        dot3adAggDescription
           DisplayString,
        dot3adAggName
```

```
IEEE Std 802.1AX-2014/Cor 1-2017
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
```

```
DisplayString,
        dot3adAggAdminState
            AggState,
                                     SOILE CHEEFE 8802-1AX:2016 COR1:2018
        dot3adAggOperState
            AggState,
        dot3adAggTimeOfLastOperChange
            Integer32,
        dot3adAggDataRate
            Integer32,
        dot3adAggOctetsTxOK
            Counter64,
        dot3adAggOctetsRxOK
            Counter64,
        dot3adAqqFramesTxOK
            Counter64,
        dot3adAggFramesRxOK
            Counter64,
        dot3adAqqMulticastFramesTxOK
            Counter64,
        dot3adAqqMulticastFramesRxOK
            Counter64,
        dot3adAggBroadcastFramesTxOK
            Counter64,
        dot3adAqqBroadcastFramesRxOK
            Counter64,
        dot3adAggFramesDiscardedOnTx
            Counter64,
        dot3adAggFramesDiscardedOnRx
            Counter64,
        dot3adAggFramesWithTxErrors
            Counter64,
        dot3adAggFramesWithRxErrors
            Counter64,
        dot3adAggUnknownProtocolFrames
            Counter64
        dot3adAggLinkUpDownNotificationEnable
            Integer32,
        dot3adAggPortAlgorithm
            OCTET STRING,
        dot3adAggPartnerAdminPortAlgorithm
         • OCTET STRING,
        dot3adAggPartnerAdminPortConversationListDigest
            OCTET STRING,
        dot3adAggAdminDiscardWrongConversation
            TruthValue,
        dot3adAggPartnerAdminConvServiceMappingDigest
            OCTET STRING,
       dot3adAggAdminDiscardWrongConversation2
            INTEGER
dot3adAggDescription OBJECT-TYPE
```

DisplayString

read-only

SYNTAX

MAX-ACCESS

```
STATUS
                 current
   DESCRIPTION
        "A human-readable text string containing information about
        the Aggregator. This string could include information about
                                                            F:2016/COR1:2018
        the distribution algorithm in use on this Aggregator; for
        example, 'Aggregator 1, Dist Alg=Dest MAC address.' This
        string is read-only. The contents are vendor specific."
    REFERENCE
        "7.3.1.1.2"
    ::= { dot3adAqqXEntry 1 }
dot3adAggName OBJECT-TYPE
                DisplayString
   MAX-ACCESS
                read-write
   STATUS
                 current
    DESCRIPTION
        "A human-readable text string containing a locally significant
                                     SOILE CHEEFE 38
       name for the Aggregator. This string is read-write."
    REFERENCE
        "7.3.1.1.3"
    ::= { dot3adAggXEntry 2 }
dot3adAggAdminState OBJECT-TYPE
    SYNTAX
                AggState
   MAX-ACCESS read-write
    STATUS
                 current
   DESCRIPTION
        "This read-write value defines the administrative state of
        the Aggregator. A value of 'up' indicates that the operational
        state of the Aggregator (AAggOperState) is permitted to be
        either up or down. A value of 'down' forces the operational
        state of the Aggregator to be down. Changes to the
       administrative state affect the operational state of the
       Aggregator only, not the operational state of the Aggregation
       Ports that are attached to the Aggregator. A GET operation
        returns the current administrative state. A SET operation
       changes the administrative state to a new value."
    REFERENCE
        "7.3.1.1.13"
    ::= { dot3adAggXEntry 3 }
dot3adAggOperState OBJECT-TYPE
    SYNTAX
                 AggState
    MAX-ACCESS
                 read-only
   STATUS
                 current
    DESCRIPTION
        "This read-only value defines the operational state of the
        Aggregator. An operational state of 'up' indicates that the
       Aggregator is available for use by the Aggregator Client;
        a value of 'down' indicates that the Aggregator is not
       available for use by the Aggregator Client."
    REFERENCE
        "7.3.1.1.14"
    ::= { dot3adAggXEntry 4 }
```

```
dot3adAggTimeOfLastOperChange OBJECT-TYPE
    SYNTAX
                 Integer32
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The time at which the interface entered its current
        operational state, in terms of centiseconds since the
        system was last reset. If the current state was entered
        prior to the last reinitialization of the local network
        management subsystem, then this object contains a value of
        zero. The ifLastChange object in the Interfaces MIB defined
        in IETF RFC 2863 is a suitable object for supplying a value
        for aAggTimeOfLastOperChange. This value is read-only.
            NOTEcte - aAggTimeOfLastOperChange was defined in terms of
        the aTimeSinceSystemReset variable of IEEE Std 802.32008,
        F.2.1, in earlier versions of this standard.
                                      SOILE CHEEFER 88
        aTimeSinceSystemReset and ifLastChange have the same meaning."
    REFERENCE
        "7.3.1.1.15"
    ::= { dot3adAggXEntry 5 }
dot3adAqqDataRate OBJECT-TYPE
    SYNTAX
                 Integer32
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The current data rate, in buts per second, of the aggregate
        link. The value is calculated as the sum of the data rate of
        each link in the aggregation. This attribute is read-only."
    REFERENCE
        "7.3.1.1.16"
    ::= { dot3adAggXEntry 6
dot3adAggOctetsTxOK OBJECT-TYPE
                 Counter64
    SYNTAX
    UNITS
        "octets"
   MAX-ACCESS
                 read-only
    STATUS (
                 current
    DESCRIPTION
        ^{4\lambda} count of the data and padding octets transmitted by this
        Aggregator on all Aggregation Ports that are (or have been)
        members of the aggregation. The count does not include octets
        transmitted by the Aggregator in frames that carry LACPDUs or
        Marker PDUs (7.3.3.1.7, 7.3.3.1.8, 7.3.3.1.9). However, it
        includes frames discarded by the Frame Distribution function of
        the Aggregator (7.3.1.1.25). This value is read-only."
    REFERENCE
        "7.3.1.1.17"
    ::= { dot3adAggXEntry 7 }
dot3adAggOctetsRxOK OBJECT-TYPE
    SYNTAX
                 Counter64
```

```
UNITS
         "octets"
    MAX-ACCESS
                   read-only
    STATUS
                   current
    DESCRIPTION
        count does not include octets

Lames that carry LACP or Marker PDUs (7.3.3.1.2,

7.3.3.1.3, 7.3.3.1.4), or frames discarded by the Frame

Collection function of the Aggregator (7.3.1.1.26). This value
is read-only."

ERENCE

"7.3.1.1.18"

{ dot3adAggXEntre 2.
         "A count of the data and padding octets received by this
                                                    EEEE 8802-1AT-201616
    REFERENCE
    ::= { dot3adAggXEntry 8 }
dot3adAggFramesTxOK OBJECT-TYPE
    SYNTAX
                   Counter64
    UNITS
         "frames"
    MAX-ACCESS read-only
    STATUS
                  current
    DESCRIPTION
         "A count of the data frames transmitted by this Aggregator on
         all Aggregation Ports that are (or have been) members of the
         aggregation. The count does not include frames transmitted by
         the Aggregator that carry LACP or Marker PDUs (7.3.3.1.7,
         7.3.3.1.8, 7.3.3.1.9). However, it includes frames discarded
         by the Frame Distribution function of the Aggregator
         (7.3.1.1.25). This value is read-only."
    REFERENCE
         "7.3.1.1.19"
    ::= { dot3adAggXEntry @
dot3adAggFramesRxOK OBJECT-TYPE
    SYNTAX
                   Counter64
    UNTTS
         "frames"
    MAX-ACCESS
                   read-only
    STATUS (
                   current
    DESCRIPTION
         ^{4\lambda} count of the data frames received by this Aggregator, from
         the Aggregation Ports that are (or have been) members of the
         aggregation. The count does not include frames that carry LACP
         or Marker PDUs (7.3.3.1.2, 7.3.3.1.3, 7.3.3.1.4), or frames
         discarded by the Frame Collection function of the Aggregator
         (7.3.1.1.26). This value is read-only."
    REFERENCE
         "7.3.1.1.20"
    ::= { dot3adAggXEntry 10 }
dot3adAggMulticastFramesTxOK OBJECT-TYPE
    SYNTAX
                  Counter64
    UNITS
```

```
"frames"
   MAX-ACCESS
               read-only
    STATUS
                 current
   DESCRIPTION
                                              ### 8802.1AT:2016|COPA1:2018
        "A count of the data frames transmitted by this Aggregator on
        all Aggregation Ports that are (or have been) members of the
        aggregation, to a group DA other than the broadcast address.
        The count does not include frames transmitted by the
       Aggregator that carry LACP or Marker PDUs (7.3.3.1.7,
        7.3.3.1.8, 7.3.3.1.9). However, it includes frames discarded
       by the Frame Distribution function of the Aggregator
        (7.3.1.1.25). This value is read-only."
    REFERENCE
        "7.3.1.1.21"
    ::= { dot3adAggXEntry 11 }
dot3adAggMulticastFramesRxOK OBJECT-TYPE
    SYNTAX
                 Counter64
    UNITS
        "frames"
   MAX-ACCESS read-only
    STATUS
                 current
   DESCRIPTION
        "A count of the data frames received by this Aggregator, from
        the Aggregation Ports that are (or have been) members of the
        aggregation, that were addressed to an active group address
       other than the broadcast address. The count does not include
        frames that carry LACP or Marker PDUs (7.3.3.1.2, 7.3.3.1.3,
        7.3.3.1.4), or frames discarded by the Frame Collection
        function of the Aggregator (7.3.1.1.26). This value is
        read-only."
   REFERENCE
       "7.3.1.1.22"
    ::= { dot3adAggXEntry 12
dot3adAggBroadcastFramesTxOK OBJECT-TYPE
                 Counter64
    SYNTAX
    UNITS
        "frames
   MAX-ACCESS
                 read-only
    STATUS.
                 current
    DESCRIPTION
        "A count of the broadcast data frames transmitted by this
        Aggregator on all Aggregation Ports that are (or have been)
        members of the aggregation. The count does not include frames
        transmitted by the Aggregator that carry LACP or Marker PDUs
        (7.3.3.1.7, 7.3.3.1.8, 7.3.3.1.9). However, it includes frames
       discarded by the Frame Distribution function of the Aggregator
        (7.3.1.1.25). This value is read-only."
    REFERENCE
        "7.3.1.1.23"
    ::= { dot3adAggXEntry 13 }
```

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dot3adAggBroadcastFramesRxOK OBJECT-TYPE

```
SYNTAX
                Counter64
   UNITS
        "frames"
   MAX-ACCESS
                read-only
                                        STATUS
                current
   DESCRIPTION
        "A count of the broadcast data frames received by this
       Aggregator, from the Aggregation Ports that are (or have been)
       members of the aggregation. The count does not include frames
       that carry LACP or Marker PDUs (7.3.3.1.2, 7.3.3.1.3,
       7.3.3.1.4), illegal or unknown protocol frames (7.3.3.1.5,
       7.3.3.1.6), or frames discarded by the Frame Collection
       function of the Aggregator (7.3.1.1.26). This value is
       read-only."
   REFERENCE
        "7.3.1.1.24"
    ::= { dot3adAggXEntry 14 }
dot3adAggFramesDiscardedOnTx OBJECT-TYPE
   SYNTAX
                Counter64
   UNITS
        "frames"
   MAX-ACCESS read-only
   STATUS
               current
   DESCRIPTION
        "A count of data frames requested to be transmitted by this
       Aggregator that were discarded by the Frame Distribution
        function of the Aggregator, when conversations are reallocated
       to different Aggregation Ports, due to the requirement to
       ensure that the conversations are flushed on the old
       Aggregation Ports in order to maintain proper frame ordering
        (B.3), or discarded as a result of excessive collisions by
       Aggregation Ports that are (or have been) members of the
       aggregation. This value is read-only."
   REFERENCE
       "7.3.1.1.25
    ::= { dot3adAggXEntry 15 }
dot3adAggFramesDiscardedOnRx OBJECT-TYPE
   SYNTAX ()
                Counter64
   UNITS .
       "frames"
   MAX-ACCESS
                read-only
    STATUS
                current
   DESCRIPTION
        "A count of data frames, received on all Aggregation Ports
       that are (or have been) members of the aggregation, that
       were discarded by the Frame Collection function of the
       Aggregator as they were received on Aggregation Ports whose
       Frame Collection function was disabled. This value is
       read-only."
   REFERENCE
       "7.3.1.1.26"
    ::= { dot3adAggXEntry 16 }
```

```
dot3adAggFramesWithTxErrors OBJECT-TYPE
    SYNTAX
                   Counter64
    UNITS
         "frames"
        A count of data frames requested to be transmitted by this
Aggregator that experienced transmission errors on Aggregation
Ports that are (or have been) members of the aggregation. This
count does not include frames discarded due to excess
collisions. This value is read-only."

RENCE
    MAX-ACCESS read-only
    STATUS
    DESCRIPTION
                                                  :CIEEE 8802.1AX:20161
    REFERENCE
         "7.3.1.1.27"
     ::= { dot3adAggXEntry 17 }
dot3adAggFramesWithRxErrors OBJECT-TYPE
    SYNTAX
                   Counter64
    UNITS
         "frames"
    MAX-ACCESS read-only
    STATUS
                  current
    DESCRIPTION
         "A count of data frames discarded on reception by all
         Aggregation Ports that are (or have been) members of the
         aggregation, or that were discarded by the Frame Collection
         function of the Aggregator, or that were discarded by the
         Aggregator due to the detection of an illegal Slow Protocols
         PDU (7.3.3.1.6). This value is read-only."
    REFERENCE
         "7.3.1.1.28"
     ::= { dot3adAggXEntry 18 }
dot3adAggUnknownProtocolFrames OBJECT-TYPE
    SYNTAX
                    Counter64
    UNITS
         "frames"
    MAX-ACCESS
                   read-only
    STATUS (
                    current
    DESCRIPTION
         A count of data frames discarded on reception by all
         Aggregation Ports that are (or have been) members of the
         aggregation, due to the detection of an unknown Slow Protocols
         PDU (7.3.3.1.5). This value is read-only."
     REFERENCE
         "7.3.1.1.29"
     ::= { dot3adAggXEntry 19 }
dot3adAggLinkUpDownNotificationEnable OBJECT-TYPE
    SYNTAX
                    INTEGER {
                       enabled(1),
                       disabled(2)
```

```
MAX-ACCESS
               read-write
    STATUS
                current
    DESCRIPTION
        "When set to 'enabled', Link Up and Link Down notifications are
                                                            t:2016/COR1:2018
        enabled for this Aggregator. When set to 'disabled', Link Up
        and Link Down notifications are disabled for this Aggregator.
       This value is read-write."
    REFERENCE
       "7.3.1.1.31"
    ::= { dot3adAggXEntry 20 }
dot3adAggPortAlgorithm OBJECT-TYPE
              OCTET STRING (SIZE (4))
   MAX-ACCESS read-write
    STATUS
               current
    DESCRIPTION
        "This object identifies the algorithm used by the Aggregator to
        assign frames to a Port Conversation ID. Table 6-4 provides the
        IEEE 802.1 OUI (00-80-C2) Port Algorithm encodings. A SEQUENCE
           OF OCTETS consisting of a 3-octet OUI or CID and one
        following octet."
    REFERENCE
       "7.3.1.1.33"
    ::= { dot3adAqqXEntry 21 }
dot3adAggPartnerAdminPortAlgorithm OBJECT-TYPE
    SYNTAX OCTET STRING (SIZE (4))
   MAX-ACCESS read-write
    STATUS
               current
    DESCRIPTION
        "This object identifies the value for the algorithm of the
        Partner System, assigned by administrator or System policy
        for use when the Partner's information is unknown. Table 6-4
       provides the IEEE 802.1 OUI (00-80-C2) Port Algorithm
        encodings. Its default value is set to NULL the
       'Unspecified value in Table 6-4. A SEQUENCE OF OCTETS consisting
        of a 3-ogtet OUI or CID and one following octet."
    REFERENCE <
    "7.3:101.34"
DEFVAL '0080C200'H }
    ::= { dot3adAggXEntry 22 }
dot3adAggPartnerAdminPortConversationListDigest OBJECT-TYPE
    SYNTAX
                OCTET STRING (SIZE (16))
   MAX-ACCESS read-write
    STATUS
            current
    DESCRIPTION
        "The value for the digest of the prioritized Port Conversation
        ID-to-Link Number ID assignments of the Partner System, assigned
       by administrator or System policy for use when the Partner's
        information is unknown. Its default value is set to NULL."
    REFERENCE
       "7.3.1.1.36"
   DEFVAL { ''H }
```

```
::= { dot3adAqqXEntry 23 }
dot3adAggAdminDiscardWrongConversation OBJECT-TYPE
    SYNTAX
                 TruthValue
    MAX-ACCESS
                 read-write
    STATUS
                 deprecated<del>current</del>
    DESCRIPTION
        "The administrative value that determines what the Aggregator
            does with a frame that is received from an Aggregation Port
            with a Port Conversation ID that is not included in the
        Collection Conversation Mask. The value 'TRUE' indicates that
            such frames are to be discarded, and the value 'FALSE' that
            they are to be forwarded. This variable needs to be set to
            'TRUE', if bidirectional congruity (8.2.1) is required. Its
            value is set to 'TRUE' by default."
                                                 EE 8802:18
            This object has been replaced by
            dot3adAggAdminDiscardWrongConversation2
    REFERENCE
        "7.3.1.1.37"
    ::= { dot3adAggXEntry 24 }
dot3adAggPartnerAdminConvServiceMappingDigest OBJECT-TYPE
                 OCTET STRING (SIZE (16))
    MAX-ACCESS read-write
    STATUS
                 current
    DESCRIPTION
        "The value for the digest of the Port Conversation ID-to-Service
        ID assignments of the Parther System, assigned by administrator
           or System policy for wise when the Partner's information is
unknown.
        Its default value is set to NULL."
    REFERENCE
        "7.3.1.1.39"
    DEFVAL { ''H }
    ::= { dot3adAggXEntry 25 }
dot3adAggAdminDiscardWrongConversation2 OBJECT-TYPE
SYNTAX
                    forceTrue(1),
                    forceFalse(2)
                    auto(3)
    MAX-ACCESS
                 read-write
    STATUS
                 current
DESCRIPTION
        "The administrative value that determines whether an Aggregator
            discards a frame that is received from an Aggregation Port
            with a Port Conversation ID that is not included in the
            Collection Conversation Mask. The value 'forceTrue'
            indicates that such frames are to be discarded, the value
            'forceFalse' indicates that such frames are to be
```

forwarded, and the value 'auto' indicates that such frames are to be forwarded only when the actor and partner agree

```
on the algorithms and mapping tables used to map frames to
             Aggregation Ports. Its value is set to 'auto' by default."
    REFERENCE
        "7.3.<u>1.1.37"</u>
      DEFVAL { auto
                sationAdminLinkTable OBJECT-TYPE

SEQUENCE OF Dot3adAggConversationAdminLinkEntry

not-accessible
current

re 4096 aAggConversationAdminLink[0]
prsationAdminLink[0]
prsationAdminLink[0]
    ::= { dot3adAggXEntry 26 }
-- The Aggregation Conversation Admin Link Table
dot3adAggConversationAdminLinkTable OBJECT-TYPE
    MAX-ACCESS
                not-accessible
    STATUS
    DESCRIPTION
        "There are 4096 aAggConversationAdminPort[] variables,
        aAggConversationAdminLink[0] through
        aAggConversationAdminLink[4095], indexed by Port Conversation
        ID. Each contains administrative values of the link selection
        priority list for the referenced Port Conversation ID. This
        selection priority list is a sequence of Link-Number IDs for
        each Port Conversation ID, in the order of preference, highest
        to lowest, for the corresponding link to carry that Port
        Conversation ID. A 16-bit zero value is used to indicate
        that no link is assigned to carry the associated Port
        Conversation ID. NOTE - This mapping of Port Conversation
        IDs to Link Number IDs is the fundamental administrative input.
        An equivalent mapping of Port Conversation IDs to Port
        IDs [Conversation PortList[]] is derived from this and
        used internally. NOTE - When a network administrator
        issues a command for selection rules, provided by
        aAggConversationAdminLink[], and accompanied with a non-zero
        value for aAggPortWTRTime (7.3.2.1.29) for all associated
        <del>Aggregation\Ports,</del> the ChangeActorOperDist is set as specified
        in 6.6.2.2. A value
                                 100 for the aAggPortWTRTime indicates
                                  operation, and the WTR timer will be
        kept to the value 100."
    REFERENCE
        "7.3.1.1.35"
      _{dot3adAgg 4 }
dot3adAggConversationAdminLinkEntry OBJECT-TYPE
    SYNTAX
            Dot3adAggConversationAdminLinkEntry
    MAX-ACCESS
                 not-accessible
    STATUS
                current
```

"An entry contains administrative values of the link selection priority list for the referenced Port Conversation ID. This selection priority list is a sequence of Link-Number IDs for each Port Conversation ID, in the order of preference, highest to lowest, for the corresponding link to carry that Port Conversation ID. A 16 bit zero value is used to indicate

DESCRIPTION

```
IEEE Std 802.1AX-2014/Cor 1-2017
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
```

```
that no link is assigned to carry the associated Port
       Conversation ID."
   REFERENCE
       "7.3.1.1.35"
                                              :EE 8802.1AT:20161COR1:2018
    INDEX { dot3adAggConversationAdminLinkId, dot3adAggIndex}
    ::= { dot3adAggConversationAdminLinkTable 1 }
Dot3adAggConversationAdminLinkEntry ::=
   SEQUENCE {
       dot3adAggConversationAdminLinkId
           Integer32,
       dot3adAqqConversationAdminLinkList
           OCTET STRING
    }
dot3adAggConversationAdminLinkId OBJECT-TYPE
               Integer32 (0..4095)
   MAX-ACCESS not-accessible
            current
   STATUS
   DESCRIPTION
       "An identifier for Port Conversation.
    ::= { dot3adAggConversationAdminLinkEntry
dot3adAggConversationAdminLinkList OBJECT-TYPE
   SYNTAX OCTET STRING
   MAX-ACCESS read-write
   STATUS current
   DESCRIPTION
        "Each two octets of the octet string represent the agreed
       Link Number ID that is assigned to an Aggregation Port
        (7.3.2.1.27). The dist is in the order of preference,
       highest to lowest, for corresponding preferred link to
       carry that Port Conversation ID."
   REFERENCE
        "7.3.1.1.35"
    ::= { dot3adAggConversationAdminLinkEntry 2 }
  The Aggregation Admin Service Conversation Map Table
dot3adAggAdminServiceConversationMapTable OBJECT-TYPE
   SYNTAX SEQUENCE OF Dot3adAggAdminServiceConversationMapEntry
   MAX-ACCESS
               not-accessible
   STATUS
            current
   DESCRIPTION
        "There are 4096 aAggAdminServiceConversationMap[] variables,
       aAggAdminServiceConversationMap[0] through
       aAggAdminServiceConversationMap[4095], indexed by Port
       Conversation ID. Each contains, in general, a set of Service
       IDs (8.2.2), unique within the array. If the Service IDs are
       representing VIDs, only a single VID is used, while in the case
```

```
IEEE Std 802.1AX-2014/Cor 1-2017
        IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
        that Service IDs are representing I-SIDs, more than one I-SIDs
        are possible. Service IDs not contained in the map are not
        mapped to any Port Conversation ID and will be discarded."
    REFERENCE
        "7.3.1.1.38"
    ::= { dot3adAgg 5 }
dot3adAggAdminServiceConversationMapEntry OBJECT-TYPE
    SYNTAX Dot3adAggAdminServiceConversationMapEntry
    MAX-ACCESS not-accessible
    STATUS
                 current
    DESCRIPTION
        "An entry contains, in general, a set of Service IDs (8.2)
        unique within the array. If the Service IDs are representing
        VIDs, only a single VID is applicable, while in the case that
        Service IDs are representing I-SIDs, more than one SIDs are
        possible."
    REFERENCE
        "7.3.1.1.38"
    INDEX { dot3adAggAdminServiceConversationMapId, dot3adAggIndex }
    ::= { dot3adAggAdminServiceConversationMapTable 1 }
Dot3adAggAdminServiceConversationMapEntry
    SEQUENCE {
        dot3adAggAdminServiceConversationMapId
            Integer32,
        dot3adAggAdminServiceConversationServiceIDList
            ServiceIdList
    }
dot3adAggAdminServiceConversationMapId OBJECT-TYPE
               Integer32 (0..4095)
    SYNTAX
    MAX-ACCESS not-accessible
    STATUS
                current
    DESCRIPTION The Port Conversation ID used to index Conversation Map
        entries."
    ::= { dot3adAggAdminServiceConversationMapEntry 1}
dot3adAqqAdminServiceConversationServiceIDList OBJECT-TYPE
    SYNTAX
                ServiceIdList
    MAX-ACCESS read-write
    STATUS
                current
    DESCRIPTION
        "A list contains, in general, a set of Service IDs (8.2.2),
        unique within the array."
    ::= { dot3adAggAdminServiceConversationMapEntry 2}
```

The Aggregation Port Table

```
dot3adAggPortTable OBJECT-TYPE
   SYNTAX
               SEQUENCE OF Dot3adAggPortEntry
   MAX-ACCESS not-accessible
                                                  8802.1AT:20161COR1:2018
   STATUS
               current
   DESCRIPTION
        "A table that contains Link Aggregation Control
       configuration information about every
       Aggregation Port associated with this device.
       A row appears in this table for each physical port."
   REFERENCE
       "7.3.2"
    ::= { dot3adAqqPort 1 }
dot3adAggPortEntry OBJECT-TYPE
   SYNTAX
            Dot3adAggPortEntry
   MAX-ACCESS not-accessible
   STATUS
           current
   DESCRIPTION
       "A list of Link Aggregation Control configuration
       parameters for each Aggregation Port on this device."
                                K of Isolific
   INDEX { dot3adAggPortIndex }
    ::= { dot3adAqqPortTable 1 }
Dot3adAggPortEntry ::=
   SEQUENCE {
       dot3adAggPortIndex
           InterfaceIndex,
       dot3adAggPortActorSystemPriority
           Integer32,
       dot3adAggPortActorSystemID
           MacAddress,
       dot3adAggPortActorAdminKey
           LacpKey
       dot3adAggPortActorOperKey
           Lacpkey,
       dot3adAggPortPartnerAdminSystemPriority
          Integer32,
       dot3adAggPortPartnerOperSystemPriority
           Integer32,
       dot3adAggPortPartnerAdminSystemID
           MacAddress,
       dot3adAggPortPartnerOperSystemID
           MacAddress,
       dot3adAggPortPartnerAdminKey
           LacpKey,
       dot3adAggPortPartnerOperKey
           LacpKey,
       dot3adAggPortSelectedAggID
           InterfaceIndex,
       dot3adAggPortAttachedAggID
           InterfaceIndex,
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
        dot3adAggPortActorPort
            Integer32,
        dot3adAggPortActorPortPriority
                                  of ISOILECILELE 8802-1AT-2016 CORN-2018
            Integer32,
        dot3adAggPortPartnerAdminPort
            Integer32,
        dot3adAggPortPartnerOperPort
            Integer32,
        dot3adAggPortPartnerAdminPortPriority
            Integer32,
        dot3adAggPortPartnerOperPortPriority
            Integer32,
        dot3adAggPortActorAdminState
            LacpState,
        dot3adAggPortActorOperState
            LacpState,
        dot3adAggPortPartnerAdminState
            LacpState,
        dot3adAggPortPartnerOperState
            LacpState,
        dot3adAggPortAggregateOrIndividual
            TruthValue
    }
dot3adAggPortIndex OBJECT-TYPE
    SYNTAX InterfaceIndex
    MAX-ACCESS not-accessible
    STATUS
                 current
    DESCRIPTION
        "The unique identifier allocated to this Aggregation Port by
        the local System. This attribute identifies an Aggregation
        Port instance among the subordinate managed objects of the
        containing object. This value is read-only. NOTE-The aAggPortID
        is represented in the SMIv2 MIB as an ifIndex-see D.4.1."
    REFERENCE
        "7.3.2.1.<u>1</u>"
    ::= { dot3adAggPortEntry 1 }
dot3adAggPortActorSystemPriority OBJECT-TYPE
                 Integer32 (0...\frac{255}{65535})
    SYNTAX
    MAX-ACCESS
                 read-write
    STATUS
                 current
    DESCRIPTION
        "A 2-octet read-write value used to define the priority
        value associated with the Actor's System ID."
    REFERENCE
        "7.3.2.1.2"
    ::= { dot3adAggPortEntry 2 }
dot3adAqqPortActorSystemID OBJECT-TYPE
    SYNTAX
                 MacAddress
```

IEEE Std 802.1AX-2014/Cor 1-2017

```
MAX-ACCESS
                 read-only
    STATUS
                  current
    DESCRIPTION
         "A 6-octet read-only MAC address value that defines the
                                                             AT:20161COR1:2018
        value of the System ID for the System that contains this
        Aggregation Port."
    REFERENCE
        "7.3.2.1.3"
    ::= { dot3adAggPortEntry 3 }
dot3adAggPortActorAdminKey OBJECT-TYPE
    SYNTAX
                 LacpKey
    MAX-ACCESS
                read-write
    STATUS
                  current
    DESCRIPTION
         "The current administrative value of the Key for the
        Aggregation Port. This is a 16-bit read-write value.
        The meaning of particular Key values is of lecal significance."
dot3adAggPortActorOperKey OBJECT-TYPE
SYNTAX LacpKey
MAX-ACCESS read-only
STATUS current
DESCRIPTION
    REFERENCE
         "The current operational value of the Key for the
        Aggregation Port. This is a 16-bit read-only value.
        The meaning of particular Key values is of local significance."
    REFERENCE
        "7.3.2.1.5"
    ::= { dot3adAggPortEntry 5 }
dot3adAggPortPartnerAdminSystemPriority OBJECT-TYPE
    SYNTAX.
                  Integer32 (0...25565535)
    MAX ACCESS
                  read-write
    STATUS
                  current
    DESCRIPTION
         "A 2-octet read-write value used to define the administrative
        value of priority associated with the Partner's System ID. The
        assigned value is used, along with the value of
        aAggPortPartnerAdminSystemID, aAggPortPartnerAdminKey,
        aAggPortPartnerAdminPort, and aAggPortPartnerAdminPortPriority,
        in order to achieve manually configured aggregation."
    REFERENCE
        "7.3.2.1.6"
    ::= { dot3adAggPortEntry 6 }
```

```
dot3adAggPortPartnerOperSystemPriority OBJECT-TYPE
                                        Integer32 (0..<del>255</del>65535)
          MAX-ACCESS read-only
                  gPortPartnerAdminSystemID OBJECT-TYPE
AX MacAddress
ACCESS read-write
JS current
RIPTION
'A 6-octet read-write MACAddress

Land Associated with the Partner's System ID. The
value of this attribute may contain the manually configured
value carried in aAggPortPartnerAdminSystemPriority if there
value carried in aAggPortPartnerAdminSystemP
          STATUS
          DESCRIPTION
          REFERENCE
           ::= { dot3adAggPortEntry 7 }
dot3adAggPortPartnerAdminSystemID OBJECT-TYPE
          SYNTAX
          MAX-ACCESS
          STATUS
          DESCRIPTION
                    the administrative value of the Aggregation Port's protocol
                    Partner's System ID. The assigned value is used, along with
                    the value of aAggPortPartnerAdminSystemPriority,
                    aAggPortPartnerAdminKey, aAggPortPartnerAdminPort,
                    and aAggPortPartnerAdminPortPriority, in order to
                    achieve manually configured aggregation."
          REFERENCE
                    "7.3.2.1.8"
           ::= { dot3adAggPortEntry 8 }
dot3adAggPortPartnerOperSystemID OBJECT-TYPE
          SYNTAX
                                           MacAddress
                                         read-only
          MAX-ACCESS
          STATUS
                                           current
          DESCRIPTION
                     "A.6-octet read-only MACAddress value representing
                    the current value of the Aggregation Port's protocol Partner's
                    System ID. A value of zero indicates that there is no known
                    protocol Partner. The value of this attribute may contain the
                    manually configured value carried in
                    aAggPortPartnerAdminSystemID if there is no protocol Partner."
          REFERENCE
                     "7.3.2.1.9"
          ::= { dot3adAggPortEntry 9 }
dot3adAggPortPartnerAdminKey OBJECT-TYPE
          SYNTAX
                                         LacpKey
          MAX-ACCESS
                                        read-write
```

```
STATUS
                 current
    DESCRIPTION
        "The current administrative value of the Key for the
        protocol Partner. This is a 16-bit read-write value.
                                                      302-1AT:20161COR1:2018
        The assigned value is used, along with the value of
        aAggPortPartnerAdminSystemPriority,
        aAggPortPartnerAdminSystemID, aAggPortPartnerAdminPort,
        and aAggPortPartnerAdminPortPriority, in order to achieve
       manually configured aggregation."
    REFERENCE
       "7.3.2.1.10"
    ::= { dot3adAggPortEntry 10 }
dot3adAggPortPartnerOperKey OBJECT-TYPE
    SYNTAX
                 LacpKey
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The current operational value of the Key for the
        protocol Partner. The value of this attribute may contain
        the manually configured value carried in
        aAqqPortPartnerAdminKey if there is no protocol Partner.
       This is a 16-bit read-only value."
    REFERENCE
        "7.3.2.1.11"
    ::= { dot3adAggPortEntry 11 }
dot3adAggPortSelectedAggID OBJECT TYPE
    SYNTAX
                 InterfaceIndex
   MAX-ACCESS
                 read-only 🔇
    STATUS
                 current
    DESCRIPTION
        "The identifier value of the Aggregator that this Aggregation
        Port has currently selected. Zero indicates that the
       Aggregation Port has not selected an Aggregator, either because
        it is in the process of detaching from an Aggregator or because
        there is no suitable Aggregator available for it to select.
        This value is read-only."
    REFERENCE
        17.3.2.1.12"
          dot3adAggPortEntry 12 }
   3adAggPortAttachedAggID OBJECT-TYPE
                 InterfaceIndex
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The identifier value of the Aggregator that this Aggregation
        Port is currently attached to. Zero indicates that the
       Aggregation Port is not currently attached to an Aggregator.
       This value is read-only."
```

```
REFERENCE
        "7.3.2.1.13"
    ::= { dot3adAggPortEntry 13 }
                                             C. 61COR1.2018
dot3adAggPortActorPort OBJECT-TYPE
    SYNTAX
               Integer32 (0..65535)
   MAX-ACCESS
               read-only
    STATUS
                current
    DESCRIPTION
        "The port number locally assigned to the Aggregation Port.
        The port number is communicated in LACPDUs as the
       Actor Port. This value is read-only."
    REFERENCE
        "7.3.2.1.14"
    ::= { dot3adAggPortEntry 14 }
dot3adAggPortActorPortPriority OBJECT-TYPE
    SYNTAX
               Integer32 (0..<del>255</del>65535)
               read-write
   MAX-ACCESS
    STATUS
               current
   DESCRIPTION
        "The priority value assigned to this Aggregation Port.
       This 16-bit value is read-write. NOTE-In the case of DRNI
        (Clause 9), the two least significant bits of the priority
        for each Aggregation Port in a Distributed Relay's Aggregator
        Port will be ignored because these bits are used to encode
        the Portal System Number Nitem e) in 9.3.3]."
    REFERENCE
        "7.3.2.1.15"
    ::= { dot3adAggPortEntry 15
dot3adAggPortPartnerAdminPort OBJECT-TYPE
               Integer32 (0..65535)
                read-write
   MAX-ACCESS
    STATUS
                current
   DESCRIPTION
        "The current administrative value of the port number
        for the protocol Partner. This is a 16-bit read-write value.
       The assigned value is used, along with the value of
       aAggPortPartnerAdminSystemPriority,
        aAggPortPartnerAdminSystemID, aAggPortPartnerAdminKey,
        and aAggPortPartnerAdminPortPriority,
        in order to achieve manually configured aggregation."
    REFERENCE
        "7.3.2.1.16"
    ::= { dot3adAggPortEntry 16 }
dot3adAggPortPartnerOperPort OBJECT-TYPE
                Integer32 (0..65535)
    SYNTAX
   MAX-ACCESS
               read-only
```

```
STATUS
                 current
    DESCRIPTION
        "The operational port number assigned to this Aggregation
        Port by the Aggregation Port's protocol Partner. The value
                                                           AT:20161COR1:2018
        of this attribute may contain the manually configured value
        carried in aAggPortPartnerAdminPort if there is no protocol
        Partner. This 16-bit value is read-only."
    REFERENCE
        "7.3.2.1.17"
    ::= { dot3adAggPortEntry 17 }
dot3adAggPortPartnerAdminPortPriority OBJECT-TYPE
                Integer32 (0...25565535)
   MAX-ACCESS
               read-write
   STATIIS
                 current
   DESCRIPTION
        "The current administrative value of the port priority
        for the protocol Partner. This is a 16-bit read-write value.
       The assigned value is used, along with the value of
        aAggPortPartnerAdminSystemPriority,
        aAggPortPartnerAdminSystemID, aAggPortPartnerAdminKey, and
        aAggPortPartnerAdminPort, in order to achieve manually
        configured aggregation."
    REFERENCE
        "7.3.2.1.18"
    ::= { dot3adAggPortEntry 18 }
dot3adAggPortPartnerOperPortPriority OBJECT-TYPE
    SYNTAX
                 Integer32 (0. \frac{255}{65535})
   MAX-ACCESS
                read-only 🔇
    STATUS
                 current
    DESCRIPTION
        "The priority value assigned to this Aggregation Port
       by the Partner. The value of this attribute may contain the
       manually configured value carried in
        aAggPortPartnerAdminPortPriority if there is no
       protocol Partner. This 16-bit value is read-only."
    REFERENCE
        "7.3.2.1.19"
         dot3adAqqPortEntry 19 }
 t3adAggPortActorAdminState OBJECT-TYPE
    SYNTAX
                LacpState
   MAX-ACCESS
               read-write
                 current
    DESCRIPTION
        "A string of 8 bits, corresponding to the administrative
        values of Actor State (5.4.2) as transmitted by the Actor
        in LACPDUs. The first bit corresponds to bit 0 of Actor State
        (LACP Activity), the second bit corresponds to bit 1
        (LACP_Timeout), the third bit corresponds to bit 2
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
        (Aggregation), the fourth bit corresponds to bit 3
        (Synchronization), the fifth bit corresponds to bit 4
        (Collecting), the sixth bit corresponds to bit 5
        (Distributing), the seventh bit corresponds to bit 6
                                                       2.1AT:2016|COR1:2018
        (Defaulted), and the eighth bit corresponds to bit 7
        (Expired). These values allow administrative control over
        the values of LACP Activity, LACP Timeout and Aggregation.
        This attribute value is read-write."
   REFERENCE
        "7.3.2.1.20"
    ::= { dot3adAggPortEntry 20 }
dot3adAggPortActorOperState OBJECT-TYPE
    SYNTAX
                 LacpState
   MAX-ACCESS
                 read-only
   STATUS
                 current
    DESCRIPTION
        "A string of 8 bits, corresponding to the current
        operational values of Actor_State as transmitted by the
        Actor in LACPDUs. The bit allocations are as defined in
        7.3.2.1.20. This attribute value is read-only."
    REFERENCE
        "7.3.2.1.21"
    ::= { dot3adAggPortEntry 21 }
dot3adAggPortPartnerAdminState OBJECT-TYPE
    SYNTAX
              LacpState
   MAX-ACCESS
                read-write
    STATUS
                 current
    DESCRIPTION
        "A string of 8 bits, corresponding to the current
        administrative value of Actor State for the protocol Partner.
        The bit allocations are as defined in 7.3.2.1.20. This
        attribute value is read-write. The assigned value is used in
        order to achieve manually configured aggregation."
    REFERENCE
        "7.3.2.1.22"
    ::= { dot3adAggPortEntry 22 }
dot3adAggPortPartnerOperState OBJECT-TYPE
    SYNTAX
                 LacpState
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "A string of 8 bits, corresponding to the current values of
        Actor State in the most recently received LACPDU transmitted
        by the protocol Partner. The bit allocations are as defined in
        7.3.2.1.20. In the absence of an active protocol Partner, this
        value may reflect the manually configured value
        aAqqPortPartnerAdminState. This attribute value is read-only."
```

REFERENCE

```
"7.3.2.1.23"
    ::= { dot3adAggPortEntry 23 }
dot3adAggPortAggregateOrIndividual OBJECT-TYPE
    SYNTAX
                TruthValue
               read-only
   MAX-ACCESS
    STATUS
                current
   DESCRIPTION
        "A read-only Boolean value indicating whether the
       Aggregation Port is able to Aggregate ('TRUE') or is
       only able to operate as an Individual link ('FALSE')."
    REFERENCE
        "7.3.2.1.24"
    ::= { dot3adAggPortEntry 24 }
-- LACP Statistics Table
dot3adAqqPortStatsTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Dot3adAggPortStatsEntry
   MAX-ACCESS not-accessible
   STATUS
              current
   DESCRIPTION
        "A table that contains Link Aggregation information
        about every port that is associated with this device.
       A row appears in this table for each physical port."
    REFERENCE
       "7.3.3"
    ::= { dot3adAggPort
dot3adAggPortStatsEntry OBJECT-TYPE
               Dot3adAggPortStatsEntry
   MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION
        "A list of Link Aggregation Control Protocol statistics
       for each port on this device."
    INDEX { dot3adAggPortIndex }
     := { dot3adAggPortStatsTable 1 }
Dot3adAggPortStatsEntry ::=
    SEQUENCE {
        dot3adAggPortStatsLACPDUsRx
            Counter32,
        dot3adAggPortStatsMarkerPDUsRx
            Counter32,
        dot3adAqqPortStatsMarkerResponsePDUsRx
            Counter32,
```

```
IEEE Std 802.1AX-2014/Cor 1-2017
         IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
         dot3adAggPortStatsUnknownRx
             Counter32,
         dot3adAggPortStatsIllegalRx
             Counter32,
        read-only
The number of valid LACPDUs received on this Aggregation Port. This value is read-only.

RENCE

'7.3.3.1.2"

dot3adAggPortStatsEntry 1 }

PortStatsMarkerpp**

Const
         dot3adAggPortStatsLACPDUsTx
    }
dot3adAqqPortStatsLACPDUsRx OBJECT-TYPE
    SYNTAX
    MAX-ACCESS
    STATUS
    DESCRIPTION
    REFERENCE
    ::= { dot3adAggPortStatsEntry 1 }
dot3adAggPortStatsMarkerPDUsRx OBJECT-TYPE
    SYNTAX
    MAX-ACCESS read-only
    STATUS
                   current
    DESCRIPTION
         "The number of valid Marker PDUs received on this
        Aggregation Port. This value is read-only."
    REFERENCE
         "7.3.3.1.3"
    ::= { dot3adAggPortStatsEntry 2 }
dot3adAggPortStatsMarkerResponsePDUsRx OBJECT-TYPE
    SYNTAX
                  Counter32
    MAX-ACCESS
                   read-only
    STATUS.
                   current
    DESCRIPTION
        "The number of valid Marker Response PDUs received on this
         Aggregation Port. This value is read-only."
    REFERENCE
         "7.3.3.1.4"
    ::= { dot3adAggPortStatsEntry 3 }
dot3adAggPortStatsUnknownRx OBJECT-TYPE
    SYNTAX
                  Counter32
    MAX-ACCESS
                 read-only
    STATUS
                   current
    DESCRIPTION
```

```
"The number of frames received that either:
        - carry the Slow Protocols Ethernet Type value
          (IEEE Std 802.3-2008, Annex 57A.4), but
         contain an unknown PDU, or:
        - are addressed to the Slow Protocols group MAC
         Address (IEEE Std 802.3-2008, Annex 57A.3),
         but do not carry the Slow Protocols Ethernet
         Type.
       This value is read-only."
    REFERENCE
       "7.3.3.1.5"
    ::= { dot3adAggPortStatsEntry 4 }
dot3adAggPortStatsIllegalRx OBJECT-TYPE
    SYNTAX
                Counter32
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The number of frames received that carry the Slow
        Protocols Ethernet Type value (IEEE Std 802.3-2008,
       Annex 57A.4), but contain a badly formed PDU or an
        illegal value of Protocol Subtype (IEEE Std
        802.3-2008, Annex 57A.3). This value is read-only."
    REFERENCE
        "7.3.3.1.6"
    ::= { dot3adAggPortStatsEntry 5
dot3adAqqPortStatsLACPDUsTx OBJECT-TYPE
    SYNTAX
                Counter32
   MAX-ACCESS
                read-only
                 current
    STATUS
    DESCRIPTION
        "The number of LACPDUs transmitted on this
       Aggregation Port. This value is read-only."
    REFERENCE
        "7.3.3.1.7"
    ::= { dot3adAggPortStatsEntry 6 }
dot3adAggPortStatsMarkerPDUsTx OBJECT-TYPE
                 Counter32
    SYNTAX
    MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "The number of Marker PDUs transmitted on this
       Aggregation Port. This value is read-only."
    REFERENCE
        "7.3.3.1.8"
    ::= { dot3adAggPortStatsEntry 7 }
```

dot3adAggPortStatsMarkerResponsePDUsTx OBJECT-TYPE

```
SYNTAX
               Counter32
   MAX-ACCESS read-only
   STATUS
               current
   DESCRIPTION
                                                  3802-1AT-20161COR1-2018
       "The number of Marker Response PDUs transmitted
       on this Aggregation Port. This value is read-only."
   REFERENCE
       "7.3.3.1.9"
   ::= { dot3adAggPortStatsEntry 8 }
_______
-- LACP Debug Table
dot3adAggPortDebugTable OBJECT-TYPE
   SYNTAX SEQUENCE OF Dot3adAggPortDebugEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
       "A table that contains Link Aggregation debug
       information about every port that is associated with
       this device. A row appears in this table for each
       physical port."
   REFERENCE
       "7.3.4"
   ::= { dot3adAggPort 3 }
dot3adAggPortDebugEntry OBJECT-TXPE
   SYNTAX Dot3adAggPortDebugEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
       "A list of the debug parameters for a port."
   INDEX { dot3adAggPortIndex }
   ::= { dot3adAggPortDebugTable 1 }
Dot3adAggPortDebugEntry ::=
   SEQUENCE)
       dot3adAggPortDebugRxState
           Integer32,
       dot3adAggPortDebugLastRxTime
           TimeTicks,
       dot3adAggPortDebugMuxState
           Integer32,
       dot3adAggPortDebugMuxReason
           DisplayString,
       dot3adAggPortDebugActorChurnState
           ChurnState,
       {\tt dot3adAggPortDebugPartnerChurnState}
           ChurnState,
       dot3adAggPortDebugActorChurnCount
           Counter32,
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
        dot3adAggPortDebugPartnerChurnCount
            Counter32,
        dot3adAggPortDebugActorSyncTransitionCount
                                            ECIFEE 8802.1AT.20161COR1.2018
            Counter32,
        dot3adAggPortDebugPartnerSyncTransitionCount
            Counter32,
        dot3adAggPortDebugActorChangeCount
            Counter32,
        {\tt dot3adAggPortDebugPartnerChangeCount}
            Counter32
    }
dot3adAggPortDebugRxState OBJECT-TYPE
    SYNTAX
                  INTEGER {
                     currentRx(1),
                     expired(2),
                     defaulted(3),
                     initialize(4),
                     lacpDisabled(5),
                     portDisabled(6)
    MAX-ACCESS
                  read-only
    STATUS
                  current
    DESCRIPTION
        "This attribute holds the value currentRx' if the Receive
        state machine for the Aggregation Port is in the
        CURRENT state, 'expired' if the Receive state machine is in the EXPIRED state, 'defaulted' if the Receive state
        machine is in the DEFAULTED state, 'initialize' if the
        Receive state machine is in the INITIALIZE state,
        'lacpDisabled' if the Receive state machine is in the
        LACP_DISABLED state, or 'portDisabled' if the Receive
        state machine is in the PORT DISABLED state.
        This value is read-only."
    REFERENCE
        "7.3.4.1.2"
    ::= { dot3adAggPortDebugEntry 1 }
dot3adAggPortDebugLastRxTime OBJECT-TYPE
    SYNTAX
                  TimeTicks
    MAX-ACCESS
                  read-only
    STATUS
                  current
    DESCRIPTION
        "The time at which the last LACPDU was received by this
        Aggregation Port, in terms of centiseconds since the system
        was last reset. The ifLastChange object in the Interfaces MIB
        defined in IETF RFC 2863 is a suitable object for supplying a
        value for aAggPortDebugLastRxTime. This value is read-only.
        NOTE - aAggPortDebugLastRxTime was defined in terms of the
        aTimeSinceSystemReset variable of IEEE Std 802.3-2008,
        Annex F, F.2.1, in earlier versions of this standard.
```

aTimeSinceSystemReset and ifLastChange have the same meaning."

```
REFERENCE
        "7.3.4.1.3"
    ::= { dot3adAggPortDebugEntry 2 }
                                                          AT:20161COR1:2018
dot3adAggPortDebugMuxState OBJECT-TYPE
                 INTEGER {
                    detached(1),
                    waiting (2),
                    attached(3),
                    collecting(4),
                    distributing(5),
                    collectingDistributing(6)
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "This attribute holds the value 'detached' if the Mux
        state machine (5.4.14) for the Aggregation Port is
        in the DETACHED state, 'waiting' if the Mux state machine
       is in the waiting state, 'attached' if the Mux state
       machine for the Aggregation Port is in the ATTACHED
        state, 'collecting' if the Mux state machine for the
       Aggregation Port is in the COLLECTING state, 'distributing'
       if the Mux state machine for the Aggregation Port is
        in the DISTRIBUTING state, and Collecting Distributing'
        if the Mux state machine for the Aggregation Port is in
        the COLLECTING DISTRIBUTING State.
       This value is read-only.
    REFERENCE
        "7.3.4.1.4"
    ::= { dot3adAggPortDebugEntry 3 }
dot3adAggPortDebugMuxReason OBJECT-TYPE
               DisplayString
                read-only
   MAX-ACCESS
    STATUS
                 current
    DESCRIPTION
        "A human-readable text string indicating the reason
        for the most recent change of Mux machine state.
       This value is read-only."
    REFERENCE
        "7.3.4.1.5"
        { dot3adAggPortDebugEntry 4 }
dot3adAggPortDebugActorChurnState OBJECT-TYPE
                ChurnState
    SYNTAX
   MAX-ACCESS
                read-only
    STATUS
                 current
   DESCRIPTION
        "The state of the Actor Churn Detection machine
        (6.4.17) for the Aggregation Port. A value of 'noChurn'
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
        indicates that the state machine is in either the
       NO ACTOR CHURN or the ACTOR CHURN MONITOR
        state, and 'churn' indicates that the state machine is in the
       ACTOR CHURN state. This value is read-only."
                                                             :20161COR1:2018
    REFERENCE
       "7.3.4.1.6"
    ::= { dot3adAggPortDebugEntry 5 }
dot3adAggPortDebugPartnerChurnState OBJECT-TYPE
            ChurnState
    SYNTAX
   MAX-ACCESS read-only
    STATUS
                current
    DESCRIPTION
        "The state of the Partner Churn Detection machine
        (6.4.17) for the Aggregation Port. A value of 'noChurn
        indicates that the state machine is in either the
       NO PARTNER CHURN or the PARTNER CHURN MONITOR
        state, and 'churn' indicates that the state machine is
       in the PARTNER_CHURN state.
       This value is read-only."
    REFERENCE
       "7.3.4.1.7"
    ::= { dot3adAggPortDebugEntry 6 }
dot3adAggPortDebugActorChurnCount OBJECT-TYPE
    SYNTAX Counter32
   MAX-ACCESS
               read-only
    STATUS
                current
    DESCRIPTION
        "Count of the number of times the Actor Churn state
       machine has entered the ACTOR CHURN state.
       This value is read-only."
    REFERENCE
        "7.3.4.1.8"
    ::= { dot3adAggPortDebugEntry 7 }
dot3adAggPortDebugPartnerChurnCount OBJECT-TYPE
    SYNTAX.
               Counter32
   MAX ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "Count of the number of times the Partner Churn
        state machine has entered the PARTNER CHURN state.
       This value is read-only."
    REFERENCE
        "7.3.4.1.9"
    ::= { dot3adAggPortDebugEntry 8 }
dot3adAggPortDebugActorSyncTransitionCount OBJECT-TYPE
```

SYNTAX

Counter32

```
MAX-ACCESS
                read-only
   STATUS
                 current
   DESCRIPTION
        "Count of the number of times the Actor's Mux state
                                                         1210161COR1:2018
        machine (6.4.15) has entered the IN SYNC state.
        This value is read-only."
    REFERENCE
        "7.3.4.1.10"
    ::= { dot3adAggPortDebugEntry 9 }
dot3adAggPortDebugPartnerSyncTransitionCount OBJECT-TYPE
                Counter32
   MAX-ACCESS
               read-only
   STATUS
                current
   DESCRIPTION
        "Count of the number of times the Partner's Mux
        state machine (6.4.15) has entered the IN_SYNC state.
This value is read-only "
        This value is read-only."
   REFERENCE
        "7.3.4.1.11"
    ::= { dot3adAggPortDebugEntry 10 }
dot3adAggPortDebugActorChangeCount OBJECT
               Counter32
    SYNTAX
   MAX-ACCESS read-only
   STATUS
                 current
   DESCRIPTION
        "Count of the number of times the Actor's perception of
        the LAG ID for this Aggregation Port has changed.
        This value is read-only."
    REFERENCE
        "7.3.4.1.12"
    ::= { dot3adAggPortDebugEntry 11 }
dot3adAggPortDebugPartnerChangeCount OBJECT-TYPE
    SYNTAX
                Counter32
   MAX-ACCESS
                 read-only
    STATUS.
                 current
    DESCRIPTION
        "Count of the number of times the Partner's perception of
        the LAG ID (see 6.3.6.1) for this Aggregation Port has changed.
        This value is read-only."
    REFERENCE
        "7.3.4.1.13"
    ::= { dot3adAggPortDebugEntry 12 }
-- Extension of the Aggregation Port Table
```

```
dot3adAggPortXTable OBJECT-TYPE
                       SEQUENCE OF Dot3adAggPortXEntry
         MAX-ACCESS not-accessible
         STATUS
                       current
Dot3adAggPortXEntry
not-accessible
current
DESCRIPTION
"A list of extension parameters for Aggregation Port."
AUGMENTS { dot3adAggPortEntry }
::= { dot3adAggPortXTable 1 }

Dot3adAggPortXEntry ::=
SEQUENCE {
   dot3adAggPortProtocolDA
        MacAddress
}

dot3adAggPortProtocolDA OBJECT-TYPE
SYNTAX MacAddress
MAX-ACCESS read-write
STATUS current
DESCRIPTION
"A 6-octe"
DA '
         DESCRIPTION
              DA to be used when sending Link Aggregation Control
              and Marker PDUs on this Aggregation Port, corresponding
              to the value of Protocol DA in 6.2.8.1.2, 6.2.10.1.3 and
              6.5.4.2.1 The default value shall be the IEEE 802.3
              Slow Protocols Multicast address."
         REFERENCE C
              "7.3,2.2.1"
         DEFVAL { '0180C2000002'H }
          ::=\ dot3adAggPortXEntry 1 }
                       ______
        Second extension of the Aggregation Port Table
              -----
     dot3adAggPortSecondXTable OBJECT-TYPE
                    SEQUENCE OF Dot3adAggPortSecondXEntry
         MAX-ACCESS not-accessible
         STATUS
                  current
         DESCRIPTION
              "A table that extends dot3adAggPortTable."
         REFERENCE
              "7.3.2"
```

```
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
    ::= { dot3adAggPort 5 }
                                       dot3adAggPortSecondXEntry OBJECT-TYPE
    SYNTAX
                    Dot3adAggPortSecondXEntry
   MAX-ACCESS
                    not-accessible
    STATUS
                    current
    DESCRIPTION
        "A list of extension parameters for Aggregation Port."
   AUGMENTS { dot3adAggPortEntry }
    ::= { dot3adAggPortSecondXTable 1 }
Dot3adAggPortSecondXEntry ::=
    SEQUENCE {
        dot3adAggPortOperConversationPasses
            OCTET STRING,
        dot3adAggPortOperConversationCollected
            OCTET STRING,
        dot3adAggPortLinkNumberId
            Integer32,
        dot3adAggPortPartnerAdminLinkNumberId
                Integer32,
        dot3adAggPortWTRTime
            Integer32,
        dot3adAggPortEnableLongPDUXmit
            TruthValue
dot3adAggPortOperConversationPasses OBJECT-TYPE
               OCTET STRING (SIZE (512))
   MAX-ACCESS
                read-only
    STATUS
                 current
   DESCRIPTION
        "A read-only current operational vector of Boolean
        values, with one value for each possible Port
        Conversation ID. A 1 indicates that the Port
        Conversation ID is distributed through this Aggregation
        Port, and a 0 indicates that it cannot.
        aAggPortOperConversationPasses is referencing the
        current value of Port Oper Conversation Mask (6.6.2.2)."
    REFERENCE
        7.3.2.1.25
          dot3adAggPortSecondXEntry 1 }
   3adAggPortOperConversationCollected OBJECT-TYPE
    SYNTAX
                OCTET STRING (SIZE (512))
   MAX-ACCESS
                 read-only
    STATUS
                 current
    DESCRIPTION
        "A read-only current operational vector of Boolean values,
        with one value for each possible Port Conversation ID. A 1
        indicates that the Port Conversation ID is collected through
        this Aggregation Port, and a 0 indicates that it cannot.
```

aAggPortOperConversationPasses is referencing the current

```
value of Collection Conversation Mask (6.6.1.1.2)."
    REFERENCE
        "7.3.2.1.26"
    ::= { dot3adAggPortSecondXEntry 2 }
dot3adAggPortLinkNumberId OBJECT-TYPE
    SYNTAX
                Integer32 (0..65535)
   MAX-ACCESS
                read-write
    STATUS
                current
    DESCRIPTION
        "The Link Number ID value configured for this Aggregation
        Port by the System's administrator. When the Link Number
        ID value matches one of the non zero values in the selection
       prioritized lists in aAggConversationAdminLink[] (7.3.11.35),
       then this Aggregation Port must be configured to have an
        aAggPortActorAdminKey value that matches the aAggActorAdminKey
       of the Aggregator used by the LAG of the links specified
        in aAggConversationAdminLink[]. Its default value is set to
            aAggPortActorPort (7.3.2.1.14). NOTE - In the case of DRNI,
        the match of the aAggActorAdminKey to aAggPortActorAdminKey
        values excludes the first two bits identifying the individual
        Portal System in the Portal. If the network administrator fails
        to configure the proper values for the aAqqPortActorAdminKey
       variables in all of the Aggregators Ports attached to a Portal,
        the DRCP (9.4) and the variable Port Oper Conversation Mask
        (6.6.2.2) prevent looping and/or duplicate delivery, if
       necessary, by discarding frames belonging to misconfigured
        Conversations."
    REFERENCE
        "7.3.2.1.27"
    ::= { dot3adAggPortSecondXEntry 3 }
dot3adAggPortPartnerAdminIdnkNumberId OBJECT-TYPE
    SYNTAX
               Integer32 (0..65535)
   MAX-ACCESS
               read-write
                deprecated<del>current</del>
    STATUS
    DESCRIPTION _O
        "The value for the Link Number ID of the Partner System for
        this Aggregation Port, assigned by administrator or System
       policy for use when the Partner's information is unknown. Its
       default value is set to 0."
    REFERENCE
      7.3.2.1.28
    DEFVAL { 0 }
    ::= { dot3adAggPortSecondXEntry 4 }
dot3adAggPortWTRTime OBJECT-TYPE
                Integer32 (0 | 5..12 | 100)
                read-write
   MAX-ACCESS
    STATUS
                 current
   DESCRIPTION
        "The wait-to-restore (WTR) period accompanying selection
            rules set by aAqqConversationAdminLink[] in a command issued
            by a network administrator. It may be configured in steps of
```

```
1 min between 5 min and 12 min, while two additional special
           values are also used. The value 0 indicates revertive and is
           the default value. The value 100 indicates non-revertive
mode
                                                        AT:20161COR1:2018
           of operation, and the WTR timer will be kept to the value
100."
    REFERENCE
       "7.3.2.1.29"
    DEFVAL { 0 }
    ::= { dot3adAggPortSecondXEntry 5 }
dot3adAggPortEnableLongPDUXmit OBJECT-TYPE
    SYNTAX TruthValue
    MAX-ACCESS read-write
    STATUS
                current
    DESCRIPTION
        "A read-write Boolean value indicating whether the
            Aggregation Port is able to transmit LACPDUS longer than
            100 octets ('TRUE') or is only able to transmit fixed
            size 110 octet LACPDUs ('FALSE'). Its default value is
            'TRUE'."
    REFERENCE
        "7.3.2.1.30"
      DEFVAL { true }
    ::= { dot3adAggPortSecondXEntry 6
-- Extension of the LACP Debug Table
__ _____
dot3adAggPortDebugXTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Dot3adAggPortDebugXEntry
    MAX-ACCESS not-accessible
    STATUS
               current
    DESCRIPTION
       "A table that extends dot3adAggPortDebugTable."
    REFERENCE
        "7.3.4"
    ::= { dot3adAggPort 6 }
dot3adAggPortDebugXEntry OBJECT-TYPE
    SYNTAX.
             Dot3adAggPortDebugXEntry
    MAX ACCESS not-accessible
    STATUS
               current
    DESCRIPTION
        "A list of extension parameters for the LACP Port Debug table."
    AUGMENTS { dot3adAggPortDebugEntry }
    ::= { dot3adAggPortDebugXTable 1 }
Dot3adAggPortDebugXEntry ::=
    SEQUENCE {
       dot3adAggPortDebugActorCDSChurnState
           ChurnState,
        dot3adAggPortDebugPartnerCDSChurnState
```

```
IEEE Std 802.1AX-2014/Cor 1-2017
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
```

```
ChurnState,
        {\tt dot3adAggPortDebugActorCDSChurnCount}
            Counter64,
        dot3adAggPortDebugPartnerCDSChurnCount
            Counter64
                                                                161COR1:2018
    }
dot3adAggPortDebugActorCDSChurnState OBJECT-TYPE
    SYNTAX
            ChurnState
   MAX-ACCESS
               read-only
    STATUS
                current
    DESCRIPTION
        "This managed object is applicable only when
        Conversation-sensitive frame collection and distribution
        as specified in 6.6 is supported. The state of the Actor
       CDS Churn Detection machine (6.6.2.7) for the Aggregation
        Port. A value of 'noChurn' indicates that the state machine
        is in either the NO ACTOR CDS CHURN or the
       ACTOR_CHURN_CDS_MONITOR state, and 'churn' indicates that
       the state machine is in the ACTOR_CDS_CHURN state. This value
        is read-only."
    REFERENCE
       "7.3.4.1.14"
    ::= { dot3adAggPortDebugXEntry 1 }
dot3adAggPortDebugPartnerCDSChurnState OBJECT-TYPE
               ChurnState
    SYNTAX
   MAX-ACCESS
               read-only
    STATUS
                 current
    DESCRIPTION
        "This managed object is applicable only when
        Conversation-sensitive frame collection and distribution
        as specified in 6.6 is supported. The state of the Partner
       CDS Churn Detection machine (6.6.2.7) for the Aggregation
        Port. A value of 'noChurn' indicates that the state machine
        is in either the NO PARTNER CDS CHURN or the
        PARTNER_CDS_CHURN_MONITOR state, and 'churn' indicates that
        the state machine is in the PARTNER CDSCHURN state. This value
        is read-only."
    REFERENCE
        "7.3.4.1.15"
       dot3adAggPortDebugXEntry 2 }
dot3adAggPortDebugActorCDSChurnCount OBJECT-TYPE
    SYNTAX
               Counter64
    UNITS
        "times entered ACTOR CDS CHURN"
   MAX-ACCESS read-only
    STATUS
                current
    DESCRIPTION
        "This managed object is applicable only when
        Conversation-sensitive frame collection and distribution
        as specified in 6.6 is supported. Count of the number of
        times the Actor CDS Churn state machine has entered the
```

```
IEEE Std 802.1AX-2014/Cor 1-2017
IEEE Standard for Local and Metropolitan Area Networks—Link Aggregation—Corrigendum 1
```

```
ACTOR CDS CHURN state. This value is read-only."
   REFERENCE
        "7.3.4.1.16"
    ::= { dot3adAggPortDebugXEntry 3 }
                                                                16/COR1.2018
dot3adAggPortDebugPartnerCDSChurnCount OBJECT-TYPE
    SYNTAX
               Counter64
   UNITS
        "times entered PARTNER CDS CHURN"
   MAX-ACCESS read-only
    STATUS
                current
    DESCRIPTION
        "This managed object is applicable only when
        Conversation-sensitive frame collection and distribution
        as specified in 6.6 is supported. Count of the number of
       times the Partner CDS Churn state machine has entered the
       PARTNER_CDS_CHURN state. This value is read-only
    REFERENCE
        "7.3.4.1.7"
    ::= { dot3adAggPortDebuqXEntry 4 }
-- ------
-- The DRNI Configuration Table
dot3adDrniTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Dot3adDrniEntry
   MAX-ACCESS not-accessible
   STATUS current
   DESCRIPTION
        "A table that contains information about every
       DRNI that is associated with this System."
    REFERENCE
       "7.4.1"
    ::= { dot3adDrni 1 }
dot3adDrniEntry OBJECT-TYPE
   SYNTAX Dot3adDrniEntry MAX-ACCESS not-accessible
             current
    STATUS.
    DESCRIPTION

ightarrow "A list of the DRNI parameters. This is indexed
       by the DRNI Portal ID."
    INDEX { dot3adDrniIndex }
    ::= { dot3adDrniTable 1 }
Dot3adDrniEntry ::=
    SEQUENCE {
       dot3adDrniIndex
            InterfaceIndex,
        dot3adDrniDescription
            SnmpAdminString,
       dot3adDrniName
```

SnmpAdminString,

```
dot3adDrniPortalAddr
           MacAddress,
       dot3adDrniPortalPriority
                                           Integer32,
            dot3adDrniThreePortalSystem
               TruthValue,
       dot3adDrniPortalSystemNumber
           Integer32,
       dot3adDrniIntraPortalLinkList
           PortalLinkList,
       dot3adDrniAggregator
           InterfaceIndex,
       dot3adDrniNeighborAdminConvGatewayListDigest
           OCTET STRING,
       dot3adDrniNeighborAdminConvPortListDigest
           OCTET STRING,
       dot3adDrniGatewayAlgorithm
           OCTET STRING,
       dot3adDrniNeighborAdminGatewayAlgorithm
           OCTET STRING,
       dot3adDrniNeighborAdminPortAlgorithm
           OCTET STRING,
       dot3adDrniNeighborAdminDRCPState
           DrcpState,
       dot3adDrniEncapsulationMethod
           OCTET STRING,
       dot3adDrniDRPortConversationPasses
           OCTET STRING,
       dot3adDrniDRGatewayConversationPasses
           OCTET STRING,
       dot3adDrniPSI
           TruthValue,
       dot3adDrniPortConversationControl
           TruthValue
       dot3adDrniIntraPortalPortProtocolDA
           MacAddress
    }
dot3adDrniIndex OBJECT-TYPE
   SYNTAX.
                InterfaceIndex
   MAX ACCESS
                not-accessible
   STATUS
                current
   DESCRIPTION
        "The unique identifier allocated to this Distributed Relay by
        the local System. This attribute identifies a Distributed Relay
       instance among the subordinate managed objects of the
       containing object. This value is read-only. NOTE - The aDrniID
       is represented in the SMIv2 MIB as an ifIndex-see D.5."
   REFERENCE
        "7.4.1.1.1"
    ::= { dot3adDrniEntry 1 }
dot3adDrniDescription OBJECT-TYPE
```

```
SYNTAX
                SnmpAdminString
               read-only
   MAX-ACCESS
   STATUS
                current
   DESCRIPTION
        "A human-readable text string containing information about the
                                                            1.20161COR1.2018
       Distribute Relay. This string is read-only. The contents are
       vendor specific."
    REFERENCE
       "7.4.1.1.2"
    ::= { dot3adDrniEntry 2 }
dot3adDrniName OBJECT-TYPE
                SnmpAdminString
   MAX-ACCESS
               read-write
   STATUS
                current
   DESCRIPTION
        "A human-readable text string containing a locally significant
                                       30 IECHEELE 88
       name for the Distributed Relay. This string is read-write."
    REFERENCE
        "7.4.1.1.3"
    ::= { dot3adDrniEntry 3 }
dot3adDrniPortalAddr OBJECT-TYPE
    SYNTAX
               MacAddress
   MAX-ACCESS read-write
   STATUS
                current
   DESCRIPTION
        "A read-write identifier of a particular Portal.
        aDrniPortalAddr has to be unique among at least all of the
        potential Portal Systems to which a given Portal System might
       be attached via an IPD Intra-Portal Link. Also used as the
       Actor's System ID (63.2) for the emulated system."
   REFERENCE
       "7.4.1.1.4"
    ::= { dot3adDrniEntry 4 }
dot3adDrniPortalPriority OBJECT-TYPE
    SYNTAX
                Integer32
   MAX-ACCESS
                 read-write
                 current
    STATUS.
    DESCRIPTION
       "A 2-octet read-write value indicating the priority value
        associated with the Portal's System ID. Also used as the
       Actor's System Priority (6.3.2) for the emulated system."
    REFERENCE
        "7.4.1.1.5"
    ::= { dot3adDrniEntry 5 }
dot3adDrniThreePortalSystem OBJECT-TYPE
               TruthValue
    SYNTAX
   MAX-ACCESS
               read-write
    STATUS
                current
   DESCRIPTION
```