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Ethernet in the First Mile (EFM) Common MIB

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Abstract

This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community. This document proposes an extension to the Ethernet-like Interfaces MIB for the capability to manage Ethernet-in-the-First-Mile (EFM) devices.

1 Introduction

New capabilities have been added to Ethernet like interfaces within the IEEE802.3ah project for Ethernet in the First Mile (EFM). This memo defines a portion of the Management Information Base (MIB) for use with network management protocols in the Internet community to manage the new capabilities of EFM Ethernet interfaces.

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC 2119](#).

2 The Internet-Standard Management Framework

For a detailed overview of the documents that describe the current Internet-Standard Management Framework, please refer to [section 7 of RFC 3410](#) [[RFC3410](#)].

Managed objects are accessed via a virtual information store, termed the Management Information Base or MIB. MIB objects are generally accessed through the Simple Network Management Protocol (SNMP). Objects in the MIB are defined using the mechanisms defined in the Structure of Management Information (SMI). This memo specifies a MIB module that is compliant to the SMIV2, which is described in STD 58, [RFC 2578](#) [[RFC2578](#)], STD 58, [RFC 2579](#) [[RFC2579](#)] and STD 58, [RFC 2580](#) [[RFC2580](#)].

3 Overview

Ethernet networks have evolved over time from an enterprise backbone to a variety of other applications. The IEEE P802.3ah task force has defined extensions to the Ethernet standard for Ethernet deployments in the access space.

The Ethernet-in-the-First-Mile (EFM) task force has focused its efforts into four categories: optics, copper, Ethernet passive optical networks (Ethernet PON, or EPON), and operations, administration, and maintenance (OAM).

Generally, one can categorize the changes developed by IEEE P802.3ah as extending Ethernet with new physical layers (e.g. new optical physical layers, new copper physical layers, EPON), or as adding new common functionality applicable to many Ethernet physical layers (e.g. OAM).

This memo focuses on the management extensions to the MIB for Ethernet-like interfaces to address the new common Ethernet functionality developed in IEEE P802.3ah. Other documents will

focus on detailed MIB extensions for new physical layers where applicable.

[4](#) MIB Structure

The common EFM MIB objects of this memo focus on the OAM capabilities introduced in IEEE P802.3ah. The MIB objects are partitioned into four (4) different MIB groups.

The dot30amTable group manages the primary OAM objects of the Ethernet interface. This group controls the state and status of OAM as well as the mode in which it operates.

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The dot30amStats table maintains statistics on the number and type of Ethernet OAM frames being transmitted and received on the Ethernet interface.

The dot30amPeer table maintains the current information on the status and configuration of the peer OAM entity on the Ethernet interface. Managed information includes the capabilities and function available on the peer OAM entity.

The dot30amEvent table defines the management objects for the event notification capability available in IEEE P802.3ah OAM. With IEEE P802.3ah OAM, one device may send notifications to its peer devices whenever an important event happens on the local device.

[5](#) Definitions

```
EFM-COMMON-MIB DEFINITIONS ::= BEGIN
    IMPORTS
        MODULE-IDENTITY, mib-2, OBJECT-TYPE, Counter32,
        Integer32, Unsigned32
            FROM SNMPv2-SMI
        RowStatus, TruthValue, MacAddress
            FROM SNMPv2-TC
        ifIndex
            FROM IF-MIB
        MODULE-COMPLIANCE, OBJECT-GROUP
            FROM SNMPv2-CONF;
```

efmCommonMIB MODULE-IDENTITY

LAST-UPDATED "200310130000Z" -- October 13, 2003
ORGANIZATION "IETF Ethernet Interfaces and Hub MIB
Working Group"

CONTACT-INFO

"

WG Charter:

<http://www.ietf.org/html.charters/hubmib-charter.html>

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DESCRIPTION

"The MIB module for managing the new common Ethernet features introduced by the Ethernet in the First Mile task force (IEEE P802.3ah). The functionality presented here is based on IEEE P802.3ah/D2.1, released in October 2003.

In particular, this MIB focused on the changes to Clause 30 of the draft that are not specific to any physical layer.

The following reference is used throughout this MIB module:

[802.3ah] refers to:
IEEE P802.3ah/D2.1

Copyright (c) The Internet Society (2003). This version of this MIB module is part of RFC XXXX; See the RFC itself for full legal notices. "

REVISION "200310130000Z" -- October 13, 2003
DESCRIPTION "Initial version, published as RFC XXXX."

::= { mib-2 XXX }
-- EditorsNote: Its unclear where in the existing MIB hierarchy
-- we wish to hang these new capabilities. For now, putting this
-- as separate from dot3, though I question if thatÆs the right
-- thing to do. If this is common Ethernet function, it should
-- probably go into the dot3 MIB.
--

dot30amMIB OBJECT IDENTIFIER ::= { efmCommonMIB 1}

--
-- Ethernet OAM Control group
--

dot30amTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot30amEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "Primary controls and status for the OAM
capabilities of an Ethernet like interface.
There will be one row in this table for each
Ethernet like interface in the system that
Supports the Ethernet OAM functions defined
IEEE 802.3ah."

::= { dot30amMIB 1 }

dot30amEntry OBJECT-TYPE

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SYNTAX Dot30amEntry

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION "An entry in the table, containing
information on the Ethernet OAM function for
a single Ethernet-like interface."

INDEX { ifIndex }

::= { dot30amTable 1 }

Dot30amEntry ::=

```

SEQUENCE {
    dot3OamRowStatus                RowStatus,
    dot3OamAdminState               INTEGER,
    dot3OamMode                     INTEGER,
    dot3OamOperStatus               INTEGER,
    dot3OamUnidirectionalSupport    TruthValue,
    dot3OamLoopbackSupport           TruthValue,
    dot3OamEventSupport              TruthValue,
    dot3OamVariableSupport           TruthValue,
    dot3OamMaxOamPduSize             Unsigned32,
    dot3OamConfigRevision            Unsigned32,
    dot3OamMultiplexorState          INTEGER,
    dot3OamParserState               INTEGER
    -- dot3OamErrSymPeriodWindowConfig Unsigned32,
    -- dot3OamErrSymPeriodThresholdConfig Unsigned32,
    -- dot3OamErrFrameWindowConfig     Unsigned32,
    -- dot3OamErrFrameThresholdConfig   Unsigned32,
    -- dot3OamErrFramePeriodWindowConfig Unsigned32,
    -- dot3OamErrFramePeriodThresholdConfig Unsigned32,
    -- dot3OamErrFrameSecsSummaryWindowConfig Unsigned32,
    -- dot3OamErrFrameSecsSummaryThresholdConfig Unsigned32
}

```

dot3OamRowStatus OBJECT-TYPE

```

SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION "Implementation and activation of OAM is
            optional, therefore creation of the row is
            non-automatic.
            "
REFERENCE   "[802.3ah], 57.1.2 point d.1"
 ::= { dot3OamEntry 1}

```

dot3OamAdminState OBJECT-TYPE

```

SYNTAX      INTEGER {
                disabled(1),
                enabled(2)
            }
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "This object is used to configure the default
            administrative OAM mode for this interface.

```

This object represents the administratively configured OAM state for this interface."
 REFERENCE "[802.3ah], 30.11.1.1.2"
 ::= { dot3OamEntry 2 }

dot3OamMode OBJECT-TYPE
 SYNTAX INTEGER {
 active(1),
 passive(2)
 }
 MAX-ACCESS read-write
 STATUS current
 DESCRIPTION "This object configures the mode of OAM operation for this Ethernet like interface. OAM on Ethernet interfaces may be in active(1) mode or passive(2) mode. These two modes differ in that active mode provides additional capabilities to initiate monitoring activities with the remote OAM peer entity, while passive mode generally waits for the peer to initiate OAM actions with it."
 REFERENCE "[802.3ah], 30.11.1.1.3"
 ::= { dot3OamEntry 3 }

dot3OamOperStatus OBJECT-TYPE
 SYNTAX INTEGER {
 passiveWait(1),
 activeSendLocal(2),
 sendLocalAndRemote1(3),
 sendLocalAndRemote2(4),
 oamPeeringLocallyRejected(5),
 oamPeeringRemotelyRejected(6),
 operational(7)
 }
 MAX-ACCESS read-only
 STATUS current
 DESCRIPTION "At initialization and failure conditions, OAM entities on the same Ethernet link begin
 a
 discovery phase to determine what OAM capabilities maybe used on that link. The progress of the initialization is controlled by the OAM layer. These progress is reflected by the attributes
 NEED TO ADD THINGS TO CLAUSE 30
 "
 REFERENCE "[802.3ah], REFERENCE TBD"
 ::= { dot3OamEntry 4 }
 -- EditorsNote: Need to expose above in C30, not there
 --

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```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "Whether the OAM entity supports
            unidirectional operation."
REFERENCE   "[802.3ah], REFERENCE TBD"
 ::= { dot30amEntry 5 }
-- EditorsNote: Likely not configurable depending
-- on the media type
```

dot30amLoopbackSupport OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "Whether the OAM entity adheres to loopback
            command."
REFERENCE   "[802.3ah], REFERENCE TBD"
 ::= { dot30amEntry 6 }
```

dot30amEventSupport OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "Whether the OAM entity sends and interprets
            link events."
REFERENCE   "[802.3ah], REFERENCE TBD"
 ::= { dot30amEntry 7 }
```

dot30amVariableSupport OBJECT-TYPE

```
SYNTAX      TruthValue
MAX-ACCESS  read-write
STATUS      current
DESCRIPTION "Whether the OAM entity responds to variable
            requests."
REFERENCE   "[802.3ah], REFERENCE TBD"
 ::= { dot30amEntry 8 }
```

dot30amMaxOamPduSize OBJECT-TYPE

```
SYNTAX      Unsigned32
MAX-ACCESS  read-write
STATUS      current
```


DESCRIPTION "The largest OAMPDU that the OAM entity supports."
REFERENCE "[[802.3ah](#)], REFERENCE TBD"
 ::= { dot30amEntry 9 }

dot30amConfigRevision OBJECT-TYPE
SYNTAX Unsigned32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The configuration revision of the OAM entity as reflected in the latest OAMPDU sent by the OAM entity."

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"
REFERENCE "[[802.3ah](#)], REFERENCE TBD"
 ::= { dot30amEntry 10 }

dot30amMultiplexorState OBJECT-TYPE
SYNTAX INTEGER {
 forward(1),
 discard(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The state of the multiplexor function for the OAM entity."
"
REFERENCE "[[802.3ah](#)], REFERENCE TBD"
 ::= { dot30amEntry 11 }

dot30amParserState OBJECT-TYPE
SYNTAX INTEGER {
 forward(1),
 loopback(2),
 discard(3)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The state of the multiplexor function for the OAM entity."
"
REFERENCE "[[802.3ah](#)], REFERENCE TBD"
 ::= { dot30amEntry 12 }

```
--  
-- Ethernet OAM Statistics group  
--
```

```
dot30amStatsTable OBJECT-TYPE  
    SYNTAX      SEQUENCE OF Dot30amStatsEntry  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION "Statistics for the OAM function on a  
                particular Ethernet like interface."  
    ::= { dot30amMIB 2 }
```

```
dot30amStatsEntry OBJECT-TYPE  
    SYNTAX      Dot30amStatsEntry  
    MAX-ACCESS  not-accessible  
    STATUS      current  
    DESCRIPTION "An entry in the table, containing statistics  
                information on the Ethernet OAM function for  
                a single Ethernet-like interface."  
    INDEX       { ifIndex }  
    ::= { dot30amStatsTable 1 }
```

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```
Dot30amStatsEntry ::=  
    SEQUENCE {  
        dot30amPduTx                Counter32,  
        dot30amPduRx                Counter32,  
        dot30amInformationTx        Counter32,  
        dot30amInformationRx        Counter32,  
        dot30amEventNotificationTx  Counter32,  
        dot30amUniqueEventNotificationRx Counter32,  
        dot30amDuplicateEventNotificationRx Counter32,  
        dot30amLoopbackControlTx    Counter32,  
        dot30amLoopbackControlRx    Counter32,  
        dot30amVariableRequestTx    Counter32,  
        dot30amVariableRequestRx    Counter32,  
        dot30amVariableResponseTx   Counter32,  
        dot30amVariableResponseRx   Counter32,  
        dot30amOrgSpecificTx        Counter32,  
        dot30amOrgSpecificRx        Counter32,  
        dot30amUnsupportedCodesRx   Counter32  
    }
```

dot30amPduTx OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Ethernet OAM frames
transmitted on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.14."
::= { dot30amStatsEntry 1 }

dot30amPduRx OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Ethernet OAM frames
received on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.15."
::= { dot30amStatsEntry 2 }

dot30amInformationTx OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Information OAMPDUs
transmitted on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.17."
::= { dot30amStatsEntry 3 }

dot30amInformationRx OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Information OAMPDUs

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received on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.18."
::= { dot30amStatsEntry 4 }

dot30amEventNotificationTx OBJECT-TYPE
SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Event OAMPDUs
transmitted on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.19."

```

 ::= { dot30amStatsEntry 5 }

dot30amUniqueEventNotificationRx OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "A count of the number of unique Event
                OAMPDUs received on this interface."
    REFERENCE   "[802.3ah], 30.11.1.1.20."
 ::= { dot30amStatsEntry 6 }

dot30amDuplicateEventNotificationRx OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "A count of the number of duplicate Event
                OAMPDUs received on this interface."
    REFERENCE   "[802.3ah], 30.11.1.1.21."
 ::= { dot30amStatsEntry 7 }

dot30amLoopbackControlTx OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "A count of the number of Loopback OAMPDUs
                transmitted on this interface."
    REFERENCE   "[802.3ah], 30.11.1.1.22."
 ::= { dot30amStatsEntry 8 }

dot30amLoopbackControlRx OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current
    DESCRIPTION "A count of the number of Loopback OAMPDUs
                received on this interface."
    REFERENCE   "[802.3ah], 30.11.1.1.23."
 ::= { dot30amStatsEntry 9 }

dot30amVariableRequestTx OBJECT-TYPE
    SYNTAX      Counter32
    MAX-ACCESS  read-only
    STATUS      current

```

DESCRIPTION "A count of the number of Variable Request

OAMPDUs transmitted on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.24."
::= { dot30amStatsEntry 10 }

dot30amVariableRequestRx OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Variable Request
OAMPDUs received on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.25."
::= { dot30amStatsEntry 11 }

dot30amVariableResponseTx OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Variable Response
OAMPDUs transmitted on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.26."
::= { dot30amStatsEntry 12 }

dot30amVariableResponseRx OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Variable Response
OAMPDUs received on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.27."
::= { dot30amStatsEntry 13 }

dot30amOrgSpecificTx OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Organizational
Specific OAMPDUs transmitted on this
interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.28."
::= { dot30amStatsEntry 14 }

dot30amOrgSpecificRx OBJECT-TYPE

SYNTAX Counter32
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of Organizational
Specific OAMPDUs received on this interface."
REFERENCE "[[802.3ah](#)], 30.11.1.1.29."
::= { dot30amStatsEntry 15 }

dot30amUnsupportedCodesRx OBJECT-TYPE

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```
MAX-ACCESS read-only
STATUS current
DESCRIPTION "A count of the number of OAMPDU's with an
             unrecognized type received on this
             interface."
REFERENCE "[802.3ah], 30.11.1.1.16."
 ::= { dot30amStatsEntry 16 }
```

```
--
-- Ethernet OAM Peer group
--
```

```
dot30amPeerTable OBJECT-TYPE
    SYNTAX SEQUENCE OF Dot30amPeerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "Information about the OAM peer for a
                particular Ethernet like interface."
    ::= { dot30amMIB 3 }
```

```
dot30amPeerEntry OBJECT-TYPE
    SYNTAX Dot30amPeerEntry
    MAX-ACCESS not-accessible
    STATUS current
    DESCRIPTION "An entry in the table, containing statistics
                information on the Ethernet OAM function for
                a single Ethernet-like interface."
    INDEX { ifIndex }
    ::= { dot30amPeerTable 1 }
```

```
--
-- EditorsNote - Is this defined anywhere else?
Oui ::=
    OCTET STRING(SIZE(3))
```

```
Dot30amPeerEntry ::=
    SEQUENCE {
        dot30amPeerRowStatus RowStatus,
        dot30amPeerMacAddress MacAddress,
        dot30amPeerVendorOui Oui,
        dot30amPeerVendorInfo Unsigned32,
        dot30amPeerMode INTEGER,
```

```

dot30amPeerUnidirectionalSupport    TruthValue,
dot30amPeerLoopbackSupport          TruthValue,
dot30amPeerEventSupport              TruthValue,
dot30amPeerVariableSupport           TruthValue,
dot30amPeerMaxOamPduSize             Integer32,
dot30amPeerConfigRevision            Integer32,
dot30amPeerMultiplexorState          INTEGER,
dot30amPeerParserState               INTEGER
}

```

dot30amPeerRowStatus OBJECT-TYPE

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```

SYNTAX      RowStatus
MAX-ACCESS  read-create
STATUS      current
DESCRIPTION "The peer row is only created when the
            dot30amOperStatus of this particular Ethernet
            interface is not passiveWait or
            activeSendLocal."
REFERENCE   "N/A"
 ::= { dot30amPeerEntry 1}

```

dot30amPeerMacAddress OBJECT-TYPE

```

SYNTAX      MacAddress
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "The MAC address of the remote OAM peer
            entity."
REFERENCE   "[802.3ah], 30.11.1.1.4."
 ::= { dot30amPeerEntry 2 }

```

dot30amPeerVendorOui OBJECT-TYPE

```

SYNTAX      Oui
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "The OUI of the OAM peer as reflected in the
            latest information OAMPDU."
REFERENCE   "[802.3ah], 30.11.1.1.11."
 ::= { dot30amPeerEntry 3 }

```

dot30amPeerVendorInfo OBJECT-TYPE

```

SYNTAX      Unsigned32
MAX-ACCESS  read-only
STATUS      current

```

DESCRIPTION "The Vendor Info of the OAM peer as reflected
in the latest information OAMPDU."
REFERENCE "[[802.3ah](#)], 30.11.1.1.12, 30.11.1.1.13"
::= { dot30amPeerEntry 4 }

dot30amPeerMode OBJECT-TYPE
SYNTAX INTEGER {
 active(1),
 passive(2)
}
MAX-ACCESS read-only
STATUS current
DESCRIPTION "The mode of the OAM peer as reflected in the
latest OAMPDU."
"
REFERENCE "[[802.3ah](#)], 30.11.1.1.5."
::= { dot30amPeerEntry 5 }

dot30amPeerUnidirectionalSupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only

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STATUS current
DESCRIPTION "Whether the OAM peer supports unidirectional
operation as reflected in the latest OAMPDU."
"
REFERENCE "[[802.3ah](#)], 30.11.1.1.5."
::= { dot30amPeerEntry 6 }

dot30amPeerLoopbackSupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Whether the OAM peer supports loopback
operation as reflected in the latest OAMPDU."
"
REFERENCE "[[802.3ah](#)], 30.11.1.1.5."
::= { dot30amPeerEntry 7 }

dot30amPeerEventSupport OBJECT-TYPE
SYNTAX TruthValue
MAX-ACCESS read-only
STATUS current
DESCRIPTION "Whether the OAM peer supports event

notification operation as reflected in the latest OAMPDU.
"

REFERENCE "[[802.3ah](#)], 30.11.1.1.5."
 ::= { dot30amPeerEntry 8 }

dot30amPeerVariableSupport OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION "Whether the OAM peer supports variable request operation as reflected in the latest OAMPDU.
"

REFERENCE "[[802.3ah](#)], 30.11.1.1.5."
 ::= { dot30amPeerEntry 9 }

dot30amPeerMaxOamPduSize OBJECT-TYPE

SYNTAX Integer32

MAX-ACCESS read-only

STATUS current

DESCRIPTION "The maximum size of OAMPDU supported by the peer as reflected in the latest OAMPDU. Ethernet OAM on this interface must not use OAMPDUs that exceed this size.
"

REFERENCE "[[802.3ah](#)], 30.11.1.1.6."
 ::= { dot30amPeerEntry 10 }

dot30amPeerConfigRevision OBJECT-TYPE

SYNTAX Integer32

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MAX-ACCESS read-only

STATUS current

DESCRIPTION "The configuration revision of the OAM peer as reflected in the latest OAMPDU. This attribute is changed by the peer whenever it has a local configuration change for Ethernet OAM this interface.
"

REFERENCE "[[802.3ah](#)], 30.11.1.1.9."
 ::= { dot30amPeerEntry 11 }

dot30amPeerMultiplexorState OBJECT-TYPE

```
SYNTAX      INTEGER {
                forward(1),
                discard(2)
            }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "The state of the multiplexor function in the
            OAM peer as reflected in the latest OAMPDU.
            This value is changed based on loopback
            actions by either the local or remote device.
            The normal value for this attribute is
            forward. When the performing loopback
            operations, the value goes to discard.
            "
REFERENCE   "[802.3ah], 30.11.1.1.10."
 ::= { dot30amPeerEntry 12 }
```

dot30amPeerParserState OBJECT-TYPE

```
SYNTAX      INTEGER {
                forward(1),
                loopback(2),
                discard(3)
            }
MAX-ACCESS  read-only
STATUS      current
DESCRIPTION "The state of the parser function in the
            OAM peer as reflected in the latest OAMPDU.
            This value is changed based on loopback
            actions by either the local or remote
            device. The normal value for this attribute
            is forward.
            When the performing loopback operations, the
            value goes to discard (when traffic is
            looped back at the peer) or loopback (when
            traffic is looped back locally).
            "
REFERENCE   "[802.3ah], 30.11.1.1.10."
 ::= { dot30amPeerEntry 13 }
```

```
--
-- Ethernet OAM Event group
```

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```
--
-- Needs to be filled in TBD TBD !!
```

--
-- Ethernet OAM Compliance group
--
-- Needs to be filled in TBD TBD !!

END

[6](#) Security Considerations

[7](#) References

[8](#) Acknowledgments

[9](#) Author's Addresses

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