aMACMergeIdExpress

ATTRIBUTE

APPROPRIATE SYNTAX:

INTEGER

BEHAVIOUR DEFINED AS:

The value of aMACID for the express oMACEntity is assigned so as to uniquely identify an oMACMerge entity among the subordinate managed objects of the containing object.;

aMACMergeIdPreemptable

ATTRIBUTE

APPROPRIATE SYNTAX:

INTEGER

BEHAVIOUR DEFINED AS:

The value of aMACID for the preemptable oMACEntity is assigned so as to uniquely identify an oMACMerge entity among the subordinate managed objects of the containing object.;

aMACMergeSupport

ATTRIBUTE

APPROPRIATE SYNTAX:

An ENUMERATED VALUE that has one of the following entries:

supported MAC Merge function is supported on the device

not supported MAC Merge function is not supported on the device

BEHAVIOUR DEFINED AS:

This attribute indicates (when accessed via a GET operation) whether the given device supports a MAC Merge function. The SET operation shall have no effect on a device.;

aMACMergeStatusVerify

ATTRIBUTE

APPROPRIATE SYNTAX:

An ENUMERATED VALUE that has one of the following entries:

unknown verification of preemption operation with the link partner has not been initiated

verifying verification has been initiated and has not completed

succeeded preemption operation has been verified

failed verification of preemption operation failed

BEHAVIOUR DEFINED AS:

This attribute indicates (when accessed via a GET operation) the status of the MAC Merge verification process on the given device. The SET operation shall have no effect on a device.;

aMACMergeStatusEnable

ATTRIBUTE

APPROPRIATE SYNTAX:

An ENUMERATED VALUE that has one of the following entries:

unknown transmit preemption status is unknown

disabled transmit preemption is disabled

enabled transmit preemption is enabled

BEHAVIOUR DEFINED AS:

This attribute indicates (when accessed via a GET operation) the status of the MAC Merge function on the given device in the transmit direction. The status of the MAC Merge function may be modified to the indicated value via a SET operation.;

aMACMergeStatusTx

ATTRIBUTE

APPROPRIATE SYNTAX:

An ENUMERATED VALUE that has one of the following entries:

unknown transmit preemption status is unknown

inactive transmit preemption is inactive

verifying transmit preemption has been enabled and is waiting for verification to succeed before being activated

active verification succeeded and transmit preemption is active.

BEHAVIOUR DEFINED AS:

This attribute indicates (when accessed via a GET operation) the status of the MAC Merge function on the given device in the transmit direction. The SET operation shall have no effect on a device.;

aMACMergeFrameAssErrorCount

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of MAC frames with reassembly errors caused by any of the conditions listed in TBD {link to Clause 99, where reassembly process is described}.;

aMACMergeFrameSmdErrorCount

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of received MAC frames / MAC frame fragments rejected due to unknown SMD value. All valid SMD values are defined in TBD {link to Clause 99, where SMD values are described}.;

aMACMergeFrameAssOkCount

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of MAC frames that were successfully reassembled and delivered to MAC. The sum of aMACMergeFrameAssOkCount and aMACMergeFrameAssErrorCount attributes indicates the total number of received fragmented MAC frames.;

aMACMergeFragCountRx

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of received MAC frame fragments (mFrame count).;

[pat] I don’t understand what you intend to count here. Is it received mFrames, received non-express mframes or continuation mframes or non-final mframes (i.e. mframes where the last 4 bytes match the mCRC). . Note that everything received by MAC Merge is an mFrame. Fragments aren’t formally defined but could refer to an mFrame that holds less than a whole frame. I’d prefer that we count continuation mFrames because that indicates how often transmission is preempted and because that added to the number of frames sent by the MACs will indicate the total number of mframes.

aMACMergeFragCountTx

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of transmitted MAC frame fragments (mFrame count).;

[pat]Same issue as for FragCountRx

aMACMergeHoldCount

ATTRIBUTE

APPROPRIATE SYNTAX:

Generalized nonresettable counter.

This counter has a maximum increment rate of 16 000 counts per second at 10 Mb/s

BEHAVIOUR DEFINED AS:

A count of times the assertion of the MM\_CTL.request(HOLD) primitive caused the preemption of a preemptable MAC frame.;