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| Proposed spec texts for EDP Group Epoch Feature Activation | | | | |
| Date: 2025-01-12 | | | | |
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Abstract

This submission proposes changes to the MIB entries to track the activation of Group Epoch features.

Revision History:

* Rev 0: Initial version of the document

***Discussion:***

During discussions of other EDP mechanisms, it was pointed out that there isn’t a MIB to determine if EDP epoch operation is currently active for an AP MLD or for a non-AP MLD.

There is an existing MIB that indicates group epoch operation is enabled for a station. There are also additional MIBs in the STA config table related to epoch operation.

Because we only allow epoch operation by MLDs, this MIB organization is potentially confusing. If one affiliated non-AP STA has the MIB enabled for epoch operation but another non-AP STA affiliated with the same MLD does not, then the behavior of the MLD is unclear.

This submission proposes to delete the current station-level MIBs and move them to the EHT station config table. It also proposes to add 1 additional MIB with the current epoch group assignment for an MLD.

***Editing instructions formatted like this are intended to be copied into the TGbi Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

**C.3 MIB detail**

***Remove the following entries from “Dot11StationConfigEntry”.***

~~dot11GroupEpochActivated TruthValue,~~

~~dot11EpochStartTimeMargin Unsigned32,~~

~~dot11EpochTransitionTime Unsigned32,~~

***Remove the MIBs for dot11GroupEpochActivated, dot11EpochStartTimeMargin, and dot11EpochTransitionTime from the Dot11StationConfigEntry table.***

***Insert new entries in the “Dot11EHTStationConfigEntry” as follows (not all lines shown).***

dot11EHTGroupEpochActivated TruthValue,

dot11EHTEpochStartTimeMargin Unsigned32,

dot11EHTEpochTransitionTime Unsigned32,

dot11EHTGroupEpochCurrentGroup Unsigned32,

***Insert the following new MIBs in the “Dot11EHTStationConfigEntry”.***

dot11EHTGroupEpochActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity.

This attribute, when true, indicates that the capability of group epoch is enabled for the MLD. False indicates that the capability is present but is disabled.”

DEFVAL { false }

::= { dot11EHTStationConfigEntry #ANA }

dot11EHTEpochStartTimeMargin OBJECT-TYPE

SYNTAX Unsigned32 (1..100)

UNITS "0.1 milliseconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity.

This attribute indicates the duration when any STA affiliated with the MLD receives individually addressed frames that use next epoch anonymization parameters before an epoch boundary.”

DEFVAL { 100 }

::= { dot11EHTStationConfigEntry #ANA}

dot11EHTEpochTransitionTime OBJECT-TYPE

SYNTAX Unsigned32 (1..1000)

UNITS "TUs"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity.

This attribute indicates the duration when any STA affiliated with the MLD receives individually addressed frames that use previous epoch anonymization parameters after an epoch boundary.”

DEFVAL { 300 }

::= { dot11EHTStationConfigEntry #ANA}

dot11EHTGroupEpochCurrentGroup OBJECT-TYPE

SYNTAX Unsigned32 (0..255)

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity.

This attribute indicates the current EDP epoch group to which the non-AP MLD is assigned. A value of zero (0) indicates the non-AP MLD is assigned to the default group. A null value indicates that the non-AP MLD is not currently assigned to an epoch group."

DEFVAL { NULL }

::= { dot11EHTStationConfigEntry #ANA }