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| Proposed spec texts for AID-List handling upon non-AP MLD Sleep | | | | |
| Date: 2025-01-16 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Federico Lovison | Cisco Systems |  |  | flovison@cisco.com |
| Domenico Ficara | Cisco Systems |  |  | dficara@cisco.com |
| Ugo Campiglio | Cisco Systems |  |  | ucampigl@cisco.com |
| Jerome Henry | Cisco Systems |  |  | jerhenry@cisco.com |
| Javier Contreras | Cisco Systems |  |  | jacontre@cisco.com |

Abstract

This submission proposes spec text to address the need for handling the scenario where a non-AP MLD returns from Sleep State and has to use the AID provided by the AP MLD

Revision History:

* Rev 0: Initial version of the document

***Discussion:***

***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).***

***TGbi editor: Please modify the subclause 9.4.1.83 as follows:***

* EDP Epoch Settings field (#1070, #Ed)

The EDP Epoch Settings field includes the information regarding the parameters of an Epoch.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | EDP Epoch Settings Control | Group ID | AID-List sleep epoch counter | Epoch Interval | First Epoch Start Time | Time Range | Epochs Remaining | Minimum Epoch Pacing Parameters | Number Of Participating Affiliated STAs | AID Storage Size |
| Bits: | 16 | 0 or 8 | 0 or 16 | 16 | 0 or 64 | 0 or 16 | 0 or 16 | 0 or 16 | 0 or 8 or 16 or 24 | 0 or 16 |

* EDP Epoch Settings field format(#Ed)

The EDP Epoch Settings field contains the EDP epoch parameters of an EDP epoch sequence for the non-AP MLD.

The Group ID field signals an identifier of the EDP group. Value 0 indicates the default group. Value 255 is reserved.

The AID-List sleep epoch counter field signals the EDP AP policy for handling AID-List of non-AP MLD in Sleep state. The value indicates the number of epochs the AID list is stored by the AP MLD while the non-AP MLD is in doze state. The AID list is flushed by the AP MLD at the end of the last retained epoch.

The EDP Epoch Settings Control is defined as follows:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Group ID Present | First Epoch Start Time  Present | Time Range  Present | Epochs Remaining  Present | Participating Affiliated STAs Count Present(#Ed) | Participating Affiliated STAs Percentage Present(#Ed) | Minimum Epoch Pacing Parameters  Present | AID Storage Size Present | AID-List Sleep Epoch Counter Present | Reserved |
| Bits: | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 7 |

1. **EDP Epoch Settings Control field format**(#Ed)

***…Rest of clause stays as is.***

***TGbi editor: Please add clause 10.71.7.1 as follows:***

**10.71.7.1 AID Operations for Sleep Mode**

Upon advertisement of EDP groups (as defined in 10.71.2.2(EDP Group Operations)), the CPE AP MLD shall advertise its policy for AID-List handling during non-AP MLD Sleep State via the AID-List sleep epoch counter field.

The AID-List sleep epoch counter shall be set to 0 to indicate that the EDP AP MLD preserves only the assigned AID for the present epoch, flushing the AIDs defined in the already shared AID List for any non-AP MLD that goes into Sleep State.   
If the AID-List sleep epoch counter is non-zero, the EDP AP MLD preserves the assigned AIDs for the number of epochs indicated by the counter value.  
The EDP AP may reallocate the AIDs in the AID List Value that it has transmitted to the sleeping non-AP MLD to any other non-AP MLD during the subsequent epochs.

As a CPE non-AP MLD returns from Sleep State, it shall use the AID defined in the AID List for the current Epoch, as per clause 10.71.7.

If a CPE non-AP MLD, returning from Sleep State that last more than the remaining epochs in the AID-List it received, has no available AID during current epoch, the CPE non-AP MLD shall send an AID Assignment Response frame with Status Code set to NO\_ASSIGNED\_AID to request AP to new AID value assignment. If the CPE AP MLD receives such a frame, the AP MLD shall send an AID Assignment frame to the non-AP MLD and assign AIDs for the coming epochs.

If a CPE non-AP MLD has no available AID during an epoch, due to failures in AID assignment operations, the AP MLD shall disassociate the CPE non-AP MLD with Status Code set to NO\_ASSIGNED\_AID.