If IEEE P802.11
Wireless LANs

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| Identifier Status Codes |
| Date: 2023-03-14 |
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Abstract

This document proposes changes to IEEE P802.1bh D0.2 to add an Identifier Status field and define its values in order to address CIDs 4, 8, 26 written against 12.2.11. Once these proposed changes are accepted, they will be incorporated into IEEE 802.11-22/1329 and brought for motion to be accepted.

Revisions:

* R1 -- Initial Revisions
* R2 – Edits based on comments from Carol Ansley
* R3 – Add Straw Poll. Updated text per the meeting of 1/17/2023.
* R4 – Update Comment resolution text.
* R5 – Updates per meeting of 02/21/2023
* R6 – Updates and additional CRs added as covered. Additionally modified text to refer to the identity being exchanged as device ID.
* R7 – Updates based on meeting of 03-14-2023

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGbh D0.2 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbh D0.2 Draft. (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGbh Editor: Editing instructions preceded by “TGbh Editor” are instructions to the TGbh editor to modify existing material in the TGbh draft. As a result of adopting the changes, the TGbh editor will execute the instructions rather than copy them to the TGbh Draft.***

| **CID** | **Commenter** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- |
| 4 | Jay Yang | "AP sends a new identifier", before AP send a new one, AP shall verify the old one, need to add verification sucessful and failure case. | as the comment | Revised:TGbh Editor: Incorporate the text changes in 11-22-1329r17, and 11-23-0083-07. |
| 8 | Jay Yang | need to define a reason code in the assocation response frame to cover the verification failure case | as the comment | Revised:TGbh Editor: Incorporate the text changes in 11-22-1329r17, and 11-23-0083-07. |
| 26 | Okan Mutgan | Generally speaking, device ID verification (fail ,success) should be considered in the protocol. | as the comment | Revised:TGbh Editor: Incorporate the text changes in 11-22-1329r17, and 11-23-0083-07. |

# Proposed text(Proposed text modifications are based on IEEE P802.11bh D0.2)

TGbh editor: Make the following changes:

TGbh editor: Modify the first paragraph of 9.4.2.296a Device ID element per the following

The Device ID element contains a device ID. The format of the Device ID element is shown in 9-1002a (Device ID element format).

TGbh editor: ***Replace/Modify Figure 9-1002a with the following:***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Element ID | Length | Element ID Extension | Device IDStatus | Device ID |
| Octets | 1 | 1 | 1 | 1 | variable |

TGbh editor: ***Add the following paragraphs prior to the definition of the ID Blob in 9.4.2.296a -- Device ID element.***

**The Device ID Status field indicates the current status of the device ID.**

**When sent from a non-AP STA to an AP, the Device ID Status field is reserved.**

**When sent from an AP to a Non-AP STA, the Device ID Status field contains one of the following values:**

|  |  |  |
| --- | --- | --- |
| **Device ID Status** | **Name** | **Meaning** |
| **0** | **Recognized** | **Indicates the device ID was recognized by the AP.** |
| **1** | **Not Recognized** | **Indicates the device ID was not recognized by the AP.** |
| **2-255** | **Reserved** |  |

**Device ID Status Values Table <ANA>**

TGbh editor: ***Make the following modification to the text in 9.4.2.296a***

The Device ID field contains a device ID or an opaque identifier (see Annex Z) provided by an AP in the ESS.

***TGbh editor: Replace/Modify Figure 12-48a—Device ID KDE format with the following:***

|  |  |  |
| --- | --- | --- |
|  | Device ID Status | Device ID |
| Octets | 1 | variable |

TGbh editor: Add the following text in 12.7.2 EAPOL-Key frames prior to the description of the ID Blob.
**The Device ID Status field is defined in 9.4.2.296a.**

***TGbh editor: Make the following modifications to Text in 12.7.2 EAPOL-Key frames:***

**The Device ID field contains a device ID or an opaqueidentifier(see Annex Z) provided by an AP in the ESS*.***

***TGbh editor: Make the following modifications to text in 12.7.4 EAPOL-Key frame notation***

**Device ID KDE is a KDE containing a device ID or an opaque identifier (see Annex Z) provided by an AP in the ESS.**

**References:**

**IEEE 802.11-22/2186r1**

**IEEE 802.11-22/1329r17**

**IEEE P802.1bh D0.2**