IEEE P802.11
Wireless LANs

|  |
| --- |
| CIDs 7110 & 7111 Comment Resolution |
| Date: 2024-05-14 |
| Author(s): |
| Name | Company | Address | Phone | email |
| Stephen McCann | Huawei Technologies Co., Ltd | Southampton, UK |  | stephen.mccann@ieee.org  |

Abstract

This submission proposes comment resolutions to GEN CIDs 7110 & 7111 from REVme SA re-circulation Ballot #2. The changes are for D5.0.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 7110 | 369.40 | 5.1.5.3 | 1) The EBCS actions only happen if this is an EBCS enabled AP. 2) This text belongs somewhere else, not in the Role-specific behavior block (which does not contain the EBCS traffic stream mapper). | 1) Add qualification that this action occurs if this is an AP operating EBCS. ("In the context of EBCS…" like in 5.1.5.2, perhaps?) 2) Move this text and the associated NOTE 2 to somewhere appropriate. |
| 7111 | 369.9 | 5.1.5.2 | 1) The Role-specific behavior (which is what is described in this subclause) doesn't include the EBCS filter. This paragraph belongs somewhere else. 2) This sentence talks about actions of the EBCS filter in DL, but the EBCS filter (per Figure 5-1) is an UL behavior. | 1) Move this text, and the associated NOTE 2, somewhere appropriate. 2) Fix this to talk about the EBCS Traffic Mapper, or change "DL" to "UL", or something?? |

Discussion (CID 7110)

This behavior is nothing to do with the DSAF or the AP’s relationship with the DS, which is the scope of this subclause (5.1.5.3). Rather this is stack (upper stack, per Figure 5-1) behavior. It is too detailed for clause 5 and should be part of the EBCS text in subclause 34.2, as part of the discussion about what the EBCS traffic stream mapper does.

There is also a NOTE 2 that needs to go with the moved text.

Resolution (CID 7110)

Revised:

***Editor: Please make the following changes to the clause below.***

**5.1.5.3 Non-GLK AP role**

In a non-GLK AP, the MAC data plane architecture includes distribution system access in its role-specific behavior block, as shown in Figure 5-4 (Role-specific behavior block for a non-GLK AP). This block provides access to the DS for associated non-AP STAs as described in 4.5.2.1 (Distribution).

NOTE 1—This behavior block indicates that there is no access through the Controlled Port to or from the local upper-layers (the LLC sublayer) at an AP. Any such access is logically achieved in the architecture via transition of the DS and Portal to an integrated LAN. In actual implementations, this is likely to be optimized, and Data frames appear to be delivered directly to one or more local LLC sublayer entities on the same physical device as the AP. Such optimization is effectively distributing the functions of the DS and Portal, and it is the responsibility of the implementation to ensure the logical behavior of these entities is maintained.

**34.2 EBCS addressing**

***Editor: Please make the following changes to the 4th paragraph:***

For EBCS Data frames, tas follows:

— octet zz is set by the EBCS traffic stream mapper to the content ID

— octets xx-yy are set by the EBCS traffic stream mapper to the EBCS AP group ID or 00-00 when the EBCS AP does not belong to an EBCS AP group.1

Discussion (CID 7111)

This behavior is nothing to do with the DSAF or the AP’s relationship with the DS, which is the scope of this subclause (5.1.5.2). Rather this is stack (upper stack, per Figure 5-1) behavior. As it is a duplicate of an existing sentence in subclause 34.3.3, it can be deleted.

The existing NOTE 2 should also be moved to subclause 34.3.3 as normative text, as EBCS traffic always passes through the controlled port.

Resolution (CID 7111)

Revised:

***Editor: Please make the following changes to the clause below.***

**5.1.5.2 Non-GLK non-AP STA role**

The MAC data plane architecture of a non-GLK non-AP STA is completed by replacing the role-specific behavior block with the block shown in Figure 5-3 (Role-specific behavior block for a non-GLK non- AP STA). The function of this block in a non-AP STA is to perform destination address filtering as described in 10.2.8 (MAC data service).

NOTE 1—In implementations, the DA address filtering function might be done “lower in the stack.” It is shown in the role-specific behavior block location for simplicity, and any implementation choice needs to provide equivalent behavior.

**34.3.3 EBCS DL procedure at an EBCS receiver**

***Editor: Please add the new paragraph below, after the 5th paragraph:***

An MSDU contained in an authenticated EBCS Data frame shall be forwarded to a higher layer via the EBCS filter. The EBCS filter shall be configured by the SME to filter out the undesired MSDUs if they do not have the corresponding EBCS content MAC address and the corresponding EBCS content ID. An EBCS traffic stream shall pass through the IEEE 802.1X Controlled Port even if the IEEE 802.1X Controlled Port is blocked (e.g., because the STA is not associated), and generate MA-UNITDATA.indication with the SA of the EBCS Data frame as the destination address and the TA of the EBCS Data frame as the source address.