IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolution to CID 5597 | | | | |
| Date: 2017-09-10 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Guido R. Hiertz | Ericsson | Ericsson Allee 1 52134 Herzogenrath Germany | +49-2407-575-5575 | hiertz@ieee.org |
|  |  |  |  |  |

Abstract

This document resolves CID 5597. The submission allows HE STAs to optionally implement QMF reconfiguration.

In IEEE Std 802.11-2016 modify 11.26.2.2 as follows:

**11.26.2.2 QMF policy change in an infrastructure BSS or in an MBSS**

[…]

An HE non-AP STA, a QMF mesh STA or a QMF AP may set dot11QMFReconfigurationActivated to true or false. A non-HE non-AP QMF STA in an infrastructure BSS shall set dot11QMFReconfigurationActivated to true. A non-AP QMF STA that has dot11QMFReconfigurationActivated equal to true shall set the QMFReconfigurationActivated subfield to 1 in transmitted (re)association requests. A non-AP QMF STA with dot11QMFReconfigurationActivated equal to true shall accept any received QMF Policy frame from its associated AP. A QMF STA with dot11QMFReconfigurationActivated equal to false shall respond with a QMF Policy frame, with the current QMF Policy element and Status Code set to REQUEST\_DECLINED. The QMFReconfigurationActivated subfield shall be set to one in the Extended Capabilities element when dot11QMFReconfigurationActivated is true. The QMFReconfigurationActivated subfield shall be set to 0 in the Extended Capabilities element when dot11QMFReconfigurationActivated is false.

In IEEE P802.11ax/D1.3 modify to the end of clause 4.3.14a as follows:

An HE AP uses the Trigger frame to initiate MU OFDMA or MU-MIMO transmissions in the UL direction.

The Trigger frame identifies non-AP STAs participating in the MU UL transmissions and assigns transmission resources. Multi-STA BlockAck frames are used by the AP to acknowledge the transmissions from multiple non-AP STAs. Scheduled Trigger frames are sent by the AP to allow for non-AP STA power save. The Trigger frames schedule may be set between the non-AP STA and the AP using TWT operation. An HE STA is also a QMF STA.

In IEEE P802.11ax/D1.3 modify clause 27.16 as follows:

**27.16 HE BSS operation  
27.16.1 Basic HE BSS functionality**An HE STA shall set dot11HEOptionImplemented and dot11QMFActivated equal to true.

In IEEE P802.11ax/D1.3 add the following to the end of B.4.3:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| \*CFQMF | QoS management frame (QMF) policy | 11.26 | O CFHEW:M | Yes □ No □ N/A □ |

In IEEE P802.11ax/D1.3 add the following to the end of clause B.4.27.1:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HEWM11 | QMF operation | 11.26 | CFHEW:M | Yes □ No □ N/A □ |

In IEEE Std 802.11-2016 add the following to the end of clause B.10:

Change B.4.22 as follows:

**B.4.22 QMF extensions**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| QMF1 | Extended Capabilities element | 9.4.2.27 | CFQMF:M | Yes □ No □ N/A □ |
| QMF2 | Channel access procedures for QMFs | 10.2.4.2 | CFQMF:M | Yes □ No □ N/A □ |
| QMF3 | Duplicate detection and recovery for QMFs | 10.3.2.11 | CFQMF:M | Yes □ No □ N/A □ |
| QMF4 | QMF policy Configuration | 11.26.2 | CFQMF:M CFHEW:O | Yes □ No □ N/A □ |
| QMF5 | Interpreting QMF priority | 11.26.3 | CFQMF:M | Yes □ No □ N/A □ |
| QMF6 | CCMP cryptographic encapsulation for QMFs | 12.5.3.3 | (CFQMF AND  PC34.1.10):M | Yes □ No □ N/A □ |