### IEEE P802.11 Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 11be D1.0 CR for CID 7448 | | | | |
| Date: 2021-03-28 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yan Li | ZTE Corporation |  |  | li.yan16@zte.com.cn |
| Zhiqiang Han | ZTE Corporation |  |  | han.zhiqiang1@zte.com.cn |

Abstract

This submission proposes resolutions for the following 1 CID:

CIDs:7448

Revisions:

* Rev 0: Initial version of the document.

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 TGbe D1.5 Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGbe D1.5 Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 7448 | Thomas Derham |  | 11 | There are many MLME capabilities which should probably be negotiated between MLDs but this does not seem to be defined, e.g. BTM, SCS and MSCS. | Define MLD behavior for all relevant MLME capabilities | **Revised-**  Since clause 35 defines MLD behavior for SCS  , MSCS and BTM in details(35.2.22, 35.2.23 and 35.2.25),the necessary modifications are needed for clause 6 instead of clause 11  More MLD scenarios are added to relevant MLME description in clause 6  TGbe editor to make the changes shown in 11-21/0546r0 |

## 6.3.82 SCS request and response procedure

### 6.3.82.1 General

Insert the following as the first paragraph

In 6.3.82 (SCS request and response procedure), the reference of a “STA” means the “STA” that is not affiliated with an MLD unless specified otherwise, and the reference of an “AP” means the AP that is not affiliated with an MLD unless specified otherwise. When referring to MLD management, the “SME” is the entity that manages the MLD. The peer MAC entity can be within a STA that is not affiliated with an MLD or an MLD depending on the context. The PeerSTAAddress can be the MAC address of a STA that is not affiliated with an MLD or an MLD MAC address depending on the context.

### 6.3.82.2 MLME-SCS.request

#### 6.3.82.2.1 Function

#### This primitive requests transmission of an SCS Request frame to an AP or to an affiliated AP of the specfied peer MLD with which the MLD is associated.

#### 6.3.82.2.3 When generated

This primitive is generated by the SME to request that a SCS Request frame be sent to the AP with which the STA is associated or be sent to an AP affiliated with the specified peer MLD with which the MLD is associated.

#### 6.3.82.2.4 Effect of receipt

On receipt of this primitive, the MLME constructs a SCS Request frame. The STA then attempts to transmit this frame to the AP with which the STA is associated or a STA affiliated with the MLD attempts to transmit this frame to an AP affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.82.3 MLME-SCS.confirm

#### 6.3.82.3.3 When generated

This primitive is generated when the STA receives a SCS Response frame from the AP or a STA affiliated with the MLD receives a SCS Response frame from an affiliated AP of the specfied peer MLD with which the MLD is associated.

#### 6.3.82.3.4 Effect of receipt

#### On receipt of this primitive, the SME should operate according to the procedure in 11.25.2 and 35.3.22.

### 6.3.82.4 MLME-SCS.indication

#### 6.3.82.4.1 Function

This primitive indicates that an SCS Request frame was received .

#### 6.3.82.4.4 Effect of receipt

On receipt of this primitive, the SME should operate according to the procedure in 11.25.2 and 35.3.22.

### 6.3.82.5 MLME-SCS.response

#### 6.3.82.5.1 Function

This primitive is generated in response to an MLME-SCS.indication primitive requesting an SCS Response frame be sent to a non-AP STA or be sent to an affiliated STA of the specified peer MLD with which the MLD is associated.

#### 6.3.82.5.3 When generated

This primitive is generated by the SME in response to an MLME-SCS.indication primitive requesting an

SCS Response frame be sent to a non-AP STA or be sent to an affiliated STA of the specified peer MLD with which the MLD is associated.

#### 6.3.82.5.4 Effect of receipt

On receipt of this primitive, the MLME constructs a SCS Response frame. The STA then attempts to

transmit this frame to the non-AP STA indicated by the PeerSTAAddress parameter or an AP affiliated with the MLD attempts to transmit this frame to a non-AP STA affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.82.6 MLME-SCS-TERM.request

#### 6.3.82.6.1 Function

This primitive requests the transmission of a SCS Response frame to a non-AP STA or to a non-AP STA affiliated with the peer MLD to terminate an established SCS stream.

#### 6.3.82.6.4 Effect of receipt

On receipt of this primitive, the MLME constructs an SCS Response frame. The STA then attempts to transmit this frame to the non-AP STA indicated by the PeerSTAAddress parameter or an AP affiliated with the MLD attempts to transmit this frame to a non-AP STA affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.82.7 MLME-SCS-TERM.indication

#### 6.3.82.7.3 When generated

This primitive is generated when the STA receives an unsolicited SCS Response frame from the AP or a STA affiliated with the MLD receives an unsolicited SCS Response frame from an AP affiliated with the peer MLD with which the MLD is assoicated on the corresponding link.

#### 6.3.82.7.4 Effect of receipt

On receipt of this primitive, the SME should operate according to the procedure in 11.25.2 and 35.3.22.

## 6.3.116 MSCS request and response procedure

### 6.3.116.1 General

Insert the following as the first paragraph

In 6.3.116 (MSCS request and response procedure), the reference of a “STA” means the “STA” that is not affiliated with an MLD unless specified otherwise, and the reference of an “AP” means the AP that is not affiliated with an MLD unless specified otherwise. When referring to MLD management, the “SME” is the entity that manages the MLD. The peer MAC entity can be within a STA that is not affiliated with an MLD or an MLD depending on the context. The PeerSTAAddress can be the MAC address of a STA that is not affiliated with an MLD or an MLD MAC address depending on the context.

### 6.3.116.2 MLME-MSCS.request

#### 6.3.116.2.1 Function

This primitive requests transmission of an MSCS Request frame to an AP or to an affiliated AP of the specfied peer MLD with which the MLD is associated.

#### 6.3.116.2.3 When generated

This primitive is generated by the SME to request that a MSCS Request frame be sent to the AP with which the STA is associated or be sent to an AP affiliated with the specified peer MLD with which the MLD is associated.

#### 6.3.116.2.4 Effect of receipt

On receipt of this primitive, the MLME constructs a MSCS Request frame. The STA then attempts to transmit this frame to the AP with which the STA is associated or a STA affiliated with the MLD attempts to transmit this frame to an AP affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.116.3 MLME-MSCS.confirm

#### 6.3.116.3.3 When generated

This primitive is generated when the STA receives a MSCS Response frame from the AP or a STA affiliated with the MLD receives a MSCS Response frame from an affiliated AP of the specfied peer MLD with which the MLD is associated.

#### 6.3.116.3.4 Effect of receipt

On receipt of this primitive, the SME should operate according to the procedure in 11.25.3 and 35.3.23.

### 6.3.116.4 MLME-MSCS.indication

#### 6.3.116.4.1 Function

This primitive indicates that an MSCS Request frame was received.

#### 6.3.116.4.4 Effect of receipt

On receipt of this primitive, the SME should operate according to the procedure in 11.25.3 and 35.3.23.

### 6.3.116.5 MLME-MSCS.response

#### 6.3.116.5.1 Function

This primitive is generated in response to an MLME-MSCS.indication primitive requesting an MSCS

Response frame be sent to a non-AP STA or be sent to an affiliated STA of the specified peer MLD with which the MLD is associated.

#### 6.3.116.5.3 When generated

This primitive is generated by the SME in response to an MLME-MSCS.indication primitive requesting an MSCS Response frame be sent to a non-AP STA or be sent to an affiliated STA of the specified peer MLD with which the MLD is associated.

#### 6.3.116.5.4 Effect of receipt

On receipt of this primitive, the MLME constructs a MSCS Response frame. The STA then attempts to transmit this frame to the non-AP STA indicated by the PeerSTAAddress parameter or an AP affiliated with the MLD attempts to transmit this frame to a non-AP STA affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.116.6 MLME-MSCS-TERM.request

#### 6.3.116.6.1 Function

This primitive requests the transmission of an MSCS Response frame to a non-AP STA or to a non-AP STA affiliated with the peer MLD to terminate an active MSCS.

#### 6.3.116.6.4 Effect of receipt

On receipt of this primitive, the MLME constructs an MSCS Response frame. The STA then attempts to transmit this frame to the non-AP STA indicated by the PeerSTAAddress parameter or an AP affiliated with the MLD attempts to transmit this frame to a non-AP STA affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.116.7 MLME-MSCS-TERM.indication

#### 6.3.116.7.3 When generated

This primitive is generated when the STA receives an unsolicited MSCS Response frame from the AP or a STA affiliated with the MLD receives an unsolicited SCS Response frame from an AP affiliated with the peer MLD with which the MLD is assoicated on the corresponding link.

#### 6.3.116.7.4 Effect of receipt

On receipt of this primitive, the SME should operate according to the procedure in 11.25.3 and 35.3.23.

## 6.3.57 BSS transition management

### 6.3.57.1 BSS transition management procedure

Insert the following as the first paragraph

In 6.3.57 (BSS transition management), the reference of a “STA” means the “STA” that is not affiliated with an MLD unless specified otherwise, and the reference of an “AP” means the AP that is not affiliated with an MLD unless specified otherwise. When referring to MLD management, the “SME” is the entity that manages the MLD. The peer MAC entity can be within a STA that is not affiliated with an MLD or an MLD depending on the context. The PeerSTAAddress can be the MAC address of a STA that is not affiliated with an MLD or an MLD MAC address depending on the context.

### 6.3.57.2 MLME-BTMQUERY.request

This set of primitives supports the signaling of BSS Transition Management Query frames between non-AP STAs and an AP or between non-AP MLDs and an AP MLD .

#### 6.3.57.2.1 Function

This primitive requests transmission of a BSS Transition Management Query frame to the AP with which the STA is associated or to an affiliated AP of the specified peer MLD with which the MLD is associated.

#### 6.3.57.2.3 When generated

This primitive is generated by the SME to request that a BSS Transition Management Query frame be sent to the AP with which the STA is associated or be sent to an AP affiliated with the specified peer MLD with which the MLD is associated to initiate a BSS transition management procedure.

#### 6.3.57.2.4 Effect of receipt

On receipt of this primitive, the MLME constructs a BSS Transition Management Query frame. The STA

then attempts to transmit the frame to the AP with which it is associated or a STA affiliated with the MLD attempts to transmit this frame to an AP affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.57.3 MLME-BTMQUERY.indication

#### 6.3.57.3.1 Function

This primitive indicates that a BSS Transition Management Query frame was received.

#### 6.3.57.3.4 Effect of receipt

On receipt of this primitive, the SME shall operate according to the procedure in 11.21.7 and 35.3.25.

### 6.3.57.4 MLME-BTM.request

#### 6.3.57.4.1 Function

This primitive requests transmission of a BSS Transition Management Request frame to a non-AP STA or to an affiliated STA of the specified peer MLD with which the MLD is associated.

#### 6.3.57.4.3 When generated

This primitive is generated by the SME to request that a BSS Transition Management Request frame be sent to an associated non-AP STA or be sent to a STA affiliated with the specified peer MLD with which the MLD is associated. This request is sent either following the reception of an MLMEBTMQUERY.indication primitive or may be sent autonomously.

#### 6.3.57.4.4 Effect of receipt

On receipt of this primitive, the MLME constructs a BSS Transition Management Request frame. The STA then attempts to transmit this frame to the indicated non-AP STA or an AP affiliated with the MLD attempts to transmit this to a non-AP STA affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.57.5 MLME-BTM.indication

#### 6.3.57.5.1 Function

This primitive indicates that a BSS Transition Management Request frame was received.

#### 6.3.57.5.4 Effect of receipt

On receipt of this primitive the SME shall operate according to the procedure in 11.21.7 and 35.3.25.

### 6.3.57.6 MLME-BTM.response

#### 6.3.57.6.1 Function

This primitive requests transmission of a BSS Transition Management Response frame to the AP with which the STA is associated or to an affiliated AP of the specified peer MLD with which the MLD is associated.

#### 6.3.57.6.3 When generated

This primitive is generated by the SME to request that a BSS Transition Management Response frame be

sent to the AP with which the STA is associated or be sent to an affiliated AP of the specified peer MLD with which the MLD is associated.

#### 6.3.57.6.4 Effect of receipt

On receipt of this primitive, the MLME constructs a BSS Transition Management Response frame. The non-AP STA then attempts to transmit this to the AP with which it is associated or a STA affiliated with the MLD attempts to transmit this to an AP affiliated with the peer MLD with which the MLD is associated on the corresponding link.

### 6.3.57.7 MLME-BTM.confirm

#### 6.3.57.7.1 Function

This primitive reports the results of a BSS Transition Management attempt with a specified peer MAC entity that is within an AP or an AP MLD.

#### 6.3.57.7.4 Effect of receipt

On receipt of this primitive, the SME shall operate according to the procedure in 11.21.7 and 35.3.25.