IEEE P802.11
Wireless LANs

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| CC40 CR for MLME – Part 2 |
| Date: 2022-10-xx |
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**Abstract**

This document proposes comment resolutions for the following CIDs:

* 55, 56, 57, 58, 59, 105, 113, 251, 252, 253, 457 (Group 1)
* 112, 114, 115, 116, 328, 390, 678, 823, 833 (Group 2)

R0: Initial version.

R1: Modified parameters in MLME-SENSTBMSMTRQ.request, MLME-SENSTBREPORT.indication primitives, and also modified primitive parameters based on the new Sensing Measurement Report frame proposed in 1579r3.

R2: Only made changes to CID Group 1, including editorial changes, and parameter modifications in

* MLME-SENSTBMSMTRQ.request: PeerSTAAddress -> PeerSTAAddressList
* MLME-SENSTBMSMTRQ.confirm: Extract specific parameters from Sensing Measurement Report frame
* MLME-SENSTBREPORT.indication: Remove PeerSTAAddress and setup ID and instance ID
* MLME-SENSTBREPORTRQ.confirm: Keep only PeerSTAAddress, setup ID and instance ID
* Same changes applied to both TB and NTB

# CID 55, 56, 57, 58, 59, 105, 113, 251, 252, 253, 457

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 55 | 6.3.134.2.2 | 20.50 | TBD text | Fill text to replace the TBD |
| 56 | 6.3.134.3.2 | 21.15 | TBD text | Fill text to replace the TBD |
| 57 | 6.3.134.4.2 | 21.44 | TBD text | Fill text to replace the TBD |
| 58 | 6.3.134.5.2 | 22.06 | TBD text | Fill text to replace the TBD |
| 59 | 6.3.134.6.2 | 22.35 | TBD text | Fill text to replace the TBD. More sections have TBDs. |
| 105 | 6.3.134.2.2 | 20.49 | The "TBD" should be removed or replaced with text | There appear to be 93 occurrences of "TBD" in this draft. These should either be all removed or replaced with text. |
| 113 | 6.3.134.2.2 | 20.49 | MLME-SENSMSMTSETUP.request input parameters are undefined (as are the input parameters of all other primitives) | Provide input parameters for the primitives (throughout clause 6.3.134) |
| 251 | 6.3.134.2.2 | 20.48 | In the clause 9.6.7.49 the measurement setup request frame inculdes the MSID field and DMG sensing measurement setup element and sensing measurement parameters element field , so in the primitive of the sensing measurement setup request we should change TBD as "dialog token and MSID and DMG sensing measurement setup or sensing measurement parameters element " . | as in comment |
| 252 | 6.3.134.3.2 | 21.15 | In the clause 9.6.7.49 the measurement setup request frame inculdes the MSID field and DMG sensing measurement setup element and sensing measurement parameters element field , so in the primitive of the sensing measurement setup request we should change TBD as "dialog token and MSID and DMG sensing measurement setup or sensing measurement parameters element " . | as in comment |
| 253 | 6.3.134.4.2 | 21.42 | In the clause 9.6.7.49 the measurement setup request frame inculdes the MSID field and DMG sensing measurement setup element and sensing measurement parameters element field , so in the primitive of the sensing measurement setup request we should change TBD as "dialog token and MSID and DMG sensing measurement setup or sensing measurement parameters element " . | as in comment |
| 457 | 6.3.134.2 | 20.48 | The primitive parameters of MLME-SENSMSMTSETUP.request are TBD. | The primitive parameters of MLME-SENSMSMTSETUP.request must be defined and reflect parameters already defined in Sensing Measurement Request frame. Contribution will be provided. |

**Proposed resolution**: REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CIDs 55, 56, 57, 58, 59, 105, 113, 251, 252, 253, 457.

**Discussions**:

All TBDs mentioned in these comments refer to the primitive parameters in subclause 6.3.134. I agree with the commenters that these TBDs shall be replaced with the corresponding parameters.

NOTE 1: DMG sensing measurement setup element is removed from the Sensing Measurement Setup Request/Response frame and included in the DMG Sensing Measurement Setup Request/Response frame. So, this CR will not consider DMG sensing measurement setup element.

NOTE 2: The TBDs in MLME-SENSMSMTTERMINATION.request, MLME-SENSMSMTTERMINATION.indication and MLME-SENSMSMTTERMINATION.confirm primitives were resolved in document 11-22/1172r3, and are already included in D0.3.

**Modifications (#55, #56, #57, #58, #59, #105, #113, #251, #252, #253, #457):**

## 6.3.134.2 MLME-SENSMSMTSETUP.request

**6.3.134.2.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253, #457)**

***To TGbf Editor: Please modify text in 6.3.134.2.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSMSMTSETUP.request(

~~TBD~~

PeerSTAAddress,

DialogToken,

MeasurementSetupID,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.2.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder with which to perform the sensing measurement setup. |
| DialogToken | Integer | 0-255 | Identifies the sensing measurement setup request/response transaction.  |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Specifies the Measurement Setup ID assigned to the sensing measurement setup. |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | Specifies the parameters within the Sensing Measurement Parameters element for the sensing measurement setup.  |

## 6.3.134.3 MLME-SENSMSMTSETUP.indication

**6.3.134.3.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.3.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSMSMTSETUP.indication (

~~TBD~~

PeerSTAAddress,

DialogToken,

MeasurementSetupID,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.3.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator from which the Sensing Measurement Setup Request frame was received. |
| DialogToken | Integer | 0-255 | Identifies the sensing measurement setup request/response transaction.  |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Specifies the Measurement Setup ID assigned for the sensing measurement setup. |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | Specifies the parameters within the Sensing Measurement Parameters element for the sensing measurement setup. |

## 6.3.134.4 MLME-SENSMSMTSETUP.response

**6.3.134.4.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.4.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSMSMTSETUP.response(

~~TBD~~

PeerSTAAddress,

DialogToken,

StatusCode,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.4.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator with which to perform the sensing measurement setup.  |
| DialogToken | Integer | 0-255 | Identifies the sensing measurement setup request/response transaction. |
| StatusCode | Enumeratedvalue | As defined in 9.4.1.9 (Status Code field) | Indicates the result response to a sensing measurement setup request. |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | Specifies the parameters within the Sensing Measurement Parameters element for the sensing measurement setup. The parameter is present if the Status Code field is set to PREFERRED\_MEASUREMENT\_SETUP\_PARAMETERS\_SUGGESTED; otherwise, this parameter is not present. |

## 6.3.134.5 MLME-SENSMSMTSETUP.confirm

**6.3.134.5.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.5.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSMSMTSETUP.confirm(

~~TBD~~

PeerSTAAddress,

DialogToken,

StatusCode,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.5.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder from which the Sensing Measurement Setup Response frame was received. This value matches the PeerSTAAddress parameter specified in the MLME-SENSMSMTSETUP.request primitive. |
| DialogToken | Integer | 0-255 | Identifies the sensing measurement setup request/response transaction. |
| StatusCode | Enumeratedvalue | As defined in 9.4.1.9 (Status Code field) | Indicates the result response to a sensing measurement setup request. |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | Specifies the parameters within the Sensing Measurement Parameters element for the sensing measurement setup. The parameter is present if the Status Code field is set to PREFERRED\_MEASUREMENT\_SETUP\_PARAMETERS\_SUGGESTED; otherwise, this parameter is not present. |

## 6.3.134.9 MLME-SENSTBMSMTRQ.request

**6.3.134.9.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.9.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSTBMSMTRQ.request(

~~TBD~~

PeerSTAAddressList,

MeasurementSetupID,

MeasurementInstanceID,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.9.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddressList | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder(s) with which to perform a TB sensing measurement instance. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the sensing measurement instance. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the sensing measurement instance.  |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) |

## 6.3.134.10 MLME-SENSTBMSMTRQ.confirm

**6.3.134.10.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.10.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSTBMSMTRQ.confirm(

~~TBD~~

PeerSTAAddress,

SensingMeasurementReportType,

MeasurementSetupID,

MeasurementInstanceID,

SensingTransmitterSTAID,

SensingReceiverSTAID,

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.10.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder from which the Sensing Measurement Report frame was received. |
| SensingMeasurementReportType | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | Identifies the type of sensing measurement report. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |
| SensingTransmitterSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing transmitter. |
| SensingReceiverSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing receiver. |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.11 MLME-SENSTBREPORT.indication

**6.3.134.11.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.11.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSTBREPORT.indication(

~~TBD~~

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.11.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.12 MLME-SENSTBREPORTRQ.request

**6.3.134.12.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.12.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSTBREPORTRQ.request(

~~TBD~~

PeerSTAAddress,

SensingMeasurementReportType,

MeasurementSetupID,

MeasurementInstanceID,

SensingTransmitterSTAID,

SensingReceiverSTAID,

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.12.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator to which the Sensing Measurement Report frame is sent. |
| SensingMeasurementReportType | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | Identifies the type of sensing measurement report. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |
| SensingTransmitterSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing transmitter. |
| SensingReceiverSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing receiver. |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.13 MLME- SENSTBREPORTRQ.confirm

**6.3.134.13.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.13.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSTBREPORTRQ.confirm(

~~TBD~~

PeerSTAAddress,

MeasurementSetupID,

MeasurementInstanceID

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.13.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator to which the Sensing Measurement Report frame was sent. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |

## 6.3.134.14 MLME-SENSNTBMSMTRQ.request

**6.3.134.14.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.14.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSNTBMSMTRQ.request(

~~TBD~~

PeerSTAAddress,

MeasurementSetupID,

MeasurementInstanceID,

SensingMeasurementParameters

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.14.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder with which to perform a non-TB sensing measurement instance. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the sensing measurement instance. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the sensing measurement instance.  |
| SensingMeasurementParameters | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) | As defined in 9.4.2.317 (Sensing Measurement Parameters element) |

## 6.3.134.15 MLME-SENSNTBMSMTRQ.confirm

**6.3.134.15.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.15.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSNTBMSMTRQ.confirm(

~~TBD~~

PeerSTAAddress,

SensingMeasurementReportType,

MeasurementSetupID,

MeasurementInstanceID,

SensingTransmitterSTAID,

SensingReceiverSTAID,

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.15.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing responder from which the Sensing Measurement Report frame was received. |
| SensingMeasurementReportType | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | Identifies the type of sensing measurement report. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the non-TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |
| SensingTransmitterSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing transmitter. |
| SensingReceiverSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing receiver. |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.16 MLME-SENSNTBREPORT.indication

**6.3.134.16.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.16.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSNTBREPORT.indication(

~~TBD~~

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.16.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.17 MLME-SENSNTBREPORTRQ.request

**6.3.134.17.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.17.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSNTBREPORTRQ.request(

~~TBD~~

PeerSTAAddress,

SensingMeasurementReportType,

MeasurementSetupID,

MeasurementInstanceID,

SensingTransmitterSTAID,

SensingReceiverSTAID,

CSI\_ESTIMATE

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.17.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator to which the Sensing Measurement Report frame is sent. |
| SensingMeasurementReportType | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | As defined in Table 9-401r (Sensing Measurement Report Type field definition) | Identifies the type of sensing measurement report. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the non-TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |
| SensingTransmitterSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing transmitter. |
| SensingReceiverSTAID | Integer | As defined in 11.21.18.1 (Overview). | Specifies the AID/USID of the sensing receiver. |
| CSI\_ESTIMATE | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  | As defined in the RXVECTOR. See 27.2.2 (TXVECTOR and RXVECTOR parameters).  |

## 6.3.134.18 MLME-SENSNTBREPORTRQ.confirm

**6.3.134.18.2 Semantics of the service primitive (#55, #56, #57, #59, #105, #113, #251, #252, #253)**

***To TGbf Editor: Please modify text in 6.3.134.18.2 in D0.3 as follows.***

The primitive parameters are as follows:

MLME-SENSNTBREPORTRQ.confirm(

~~TBD~~

PeerSTAAddress,

MeasurementSetupID,

MeasurementInstanceID

)

***To TGbf Editor: Please insert the following table after the text in 6.3.134.18.2 in D0.3.***

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Type** | **Valid range** | **Description** |
| PeerSTAAddress | MAC address | Any valid individual MAC address | Specifies the MAC address of the sensing initiator to which the Sensing Measurement Report frame was sent. |
| MeasurementSetupID | Integer | As defined in Figure 9-1138b(Measurement Setup ID field format(#76, #261, #518)) | Identifies the sensing measurement setup for the received Sensing Measurement Report frame. |
| MeasurementInstanceID | Integer | As defined in 11.21.18.5 (Sensing measurement instance: General). | Identifies the TB sensing measurement instance whose sensing measurement result is contained in the received Sensing Measurement Report frame.  |

# CID 112

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 112 | 6.3.134.1 | 18.15 | "The following set of MLME primitives" is not clear: no set of primitives is provided. The paragraph that follows talks about sensing procedures instead. | List the MLME primitives or provide a reference. |

**Proposed resolution:** REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CID 112.

**Discussion:**



I agree with the commenter that it is not very obvious to identify which set of MLME primitives are referred to. In the baseline document (REVme D1.3), the sentence (“The following set of …”) is followed immediately by the figure(s) which shows all primitives. Instead of separating this sentence from the figure by skipping a line, the proposed modification is to remove Line 17 and combine two paragraphs into one.

**Modifications (#112):**

## 6.3.134.1 General

***To TGbf Editor: Please remove Line 17 and modify the text in 6.3.134.1 in D0.3 as follows.***

The following set of MLME primitives supports the WLAN sensing procedure described in 11.21.18 (WLAN sensing procedure). (#112) Figure 6-28a (WLAN sensing procedure, TB sensing measurement instance(#819, #828)) depicts … These figures are examples of basic procedures and are not meant to be exhaustive of all possible uses of the protocol.

# CID 114

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 114 | 6.3.134.4.4 | 21.57 | "the peer MAC address" is not clear. Presumably the MAC address from which MLME-SENSMSMTSETUP.request was received. | Clarify |

**Proposed resolution:** REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CID 114.

**Discussion:**



This “peer MAC address” is mentioned in the subclause for MLME-SENSMSMTSETUP.response primitive, which is specified in the PeerSTAAddress parameter in the inserted table in the CR for e.g., CIDs 55. To avoid repeated description, the proposed modification is to refer to the PeerSTAAddress parameter.

**Modifications(#114):**

## 6.3.134.4.4 Effect of receipt

***To TGbf Editor: Please modify the text in 6.3.134.4.4 in D0.3 as follows.***

On receipt of this primitive, the MLME constructs a Sensing Measurement Setup Response frame and causes it to be transmitted to the peer MAC address indicated by the PeerSTAAddress parameter.

# CID 115, 116, 328

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 115 | 6.3.134.8.1 | 19.19 | "confirms that a Sensing Measurement Setup Termination frame has been received by the peer STA". Better to say it was "ackowledged" - that's the only verifiable action. | See comment |
| 116 | 6.3.134.8.4 | 23.40 | "On receipt of this primitive, the SME uses the information contained within the notification.". That's pretty vague. If no normative behavior is defined, just state it. | Replace with e.g. "Use of this information is out of scope of this standard "See also page 24, line 35 |
| 328 | 6.3.134.7.3 | 23.05 | 6.3.132.7 MLME-SENSMSMTTERMINATION.indication. An expiration of the TO associated with the lack of the activity of the MS may require transmission of the frame. This condition shall be added to "6.3.134.7.3 When generated". | add at the end of the sentence "or the TO associated with the MS, expires." |

**Proposed resolution:** REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CIDs 115, 116 and 328.

**Discussion on #115:**



This primitive is issued at the sender of the termination frame. “Acknowledged” is more suitable when the reception of the termination frame is indeed “acknowledged” – Ack is received at the sender. The termination frame can also be sent as an Action No Ack frame, in which case this primitive is issued at the sender after sending the termination frame. Considering both cases, I think “confirms” is OK to use. And, we need to include the no-Ack case in 6.3.134.8.

**Modifications (#115):**

**6.3.134.8 MLME-SENSMSMTTERMINATION.confirm**

## 6.3.134.8.1 Function

***To TGbf Editor: Please modify the text in 6.3.134.8.1 in D0.3 as follows.***

This primitive confirms that the sensing measurement setup(s) are terminated explicitly when the Sensing Measurement Setup Termination frame has been sent or has been received by the peer STA to which it was sent, or that the sensing measurement setup(s) are terminated implicitly as the result of the measurement setup expiry timer expired(#51, #175, #568, #569, #115).

## 6.3.134.8.3 When generated

***To TGbf Editor: Please modify the text in 6.3.134.8.3 in D0.3 as follows.***

This primitive is generated by the MLME that the sensing measurement setup(s) are terminated explicitly when the Sensing Measurement Setup Termination frame is sent to the peer STA or when an Ack frame corresponding to the Sensing Measurement Setup Termination frame is received from the peer STA, or that the sensing measurement setup(s) are terminated implicitly as the result of the measurement setup expiry timer expired(#51, #175, #568, #569, #115).

**6.3.134.7 MLME-SENSMSMTTERMINATION.indication**

## 6.3.134.7.1 Function

***To TGbf Editor: Please modify the text in 6.3.134.7.1 in D0.3 as follows.***

This primitive indicates that a Sensing Measurement Setup Termination frame has been received requesting the termination of sensing measurement setup(s)~~, and the corresponding Ack frame has been transmitted~~ (#51, #175, #568, #569, #115).

**Discussion on #116:**



I agree with the commenter in principle that the current text is kind of vague. It could be helpful to descirbe the possible bahavior after receiving the MLME-SENSMSMTTERMINATION.confirm primitive – at the STA that sent the termination frame. In 6.3.134.10.4 Effect of receipt for the MLME-SENSTBMSMTRQ.confirm and MLME-SENSNTBMSMTRQ.confirm primitives, similar texts appear.



**Modifications (#116):**

**6.3.134.8 MLME- SENSMSMTTERMINATION.confirm**

## 6.3.134.8.4 Effect of receipt

***To TGbf Editor: Please modify the text in 6.3.134.8.4 in D0.3 as follows.***

On receipt of this primitive, the SME ~~uses the information contained within the notification~~ may release the resources associated with the sensing measurement setup(s) that were terminated (#116).

**6.3.134.10 MLME-SENSTBMSMTRQ.confirm**

## 6.3.134.10.4 Effect of receipt

***To TGbf Editor: Please modify the text in 6.3.134.10.4 in D0.3 as follows.***

On receipt of this primitive, the SME ~~uses the information contained within the notification~~ is notified of the measurement results of a TB sensing measurement instance (#116).

**6.3.134.15 MLME-SENSNTBMSMTRQ.confirm**

## 6.3.134.15.4 Effect of receipt

***To TGbf Editor: Please modify the text in 6.3.134.10.4 in D0.3 as follows.***

On receipt of this primitive, the SME ~~uses the information contained within the notification~~ is notified of the measurement results of a non-TB sensing measurement instance (#116).

**Discussion on #328:**

The commenter suggests add the timeout condition when issuing the MLME-SENSMSMTTERMINATION.indication primitive. This condition is already captured in the function of the MLME-SENSMSMTTERMINATION.confirm primitive. So, if the sensing measurement setup is terminated implicitly as a result of the expiry time, the MLME will issue an MLME-SENSMSMTTERMINATION.confirm primitive to SME to terminate the setup. So, in the “When generated” subclause for MLME-SENSMSMTTERMINATION.indication, we can keep the current text as it is for now:



**Modifications (#328):**

## 6.3.134.8.3 When generated

***To TGbf Editor: Please add “#328” to the end of the following text in 6.3.134.8.3 in D0.3 as follows.***

…, or that the sensing measurement setup(s) are terminated implicitly as the result of the measurement setup expiry timer expired(#51, #175, #568, #569, #328).

# CID 390

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 390 | 6.3.134.14.4 | 26.19 | In a non-TB sensing measurement instance, it is not necessary that an I2R NDP is transmitted by a sesnig initiator, e.g., when a sensing intiator is only a sensing reciever, as indicated in Figure 6-28c | Modify the effect-of-receipt of an MLME-SENSNTBMSMTRQ.request primitive (Subclause 6.3.134.14.4) or modify Figure 6-28c. |

**Proposed resolution:** REJECTED.

**Discussion:**

For the case when the sensing initiator is only a sensing receiver, the SI2SR NDP is still necessary to be sent. Nonetheless, the SI2SR NDP is not shown in the figure, for which, we’ve agreed to add explanations in the text. So, we can keep the text in 6.3.134.14.4 for now.

# CID 678

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 678 | 6.3.134.4.1 | 21.35 | "The primitive is generated in response..." to should be moved to sub section "when generated" | As a general comment, I don't think the paraghraph titles "When generated" and "Effect of receipt" are good.I Realize this is the structure used throughout the spec for a long time so of course a proposed change of this will be rejected. Therefore I will not make this comment in every place where these titles are used. Anyway, one reason why it is not suitable is evident from that the sentence in the comment. Apparently this answers the question "when genererated", which is the title of 6.3.134.4.3, so my proposal is to move this sentence here. |

**Proposed resolution:** REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CID 678

**Modifications (#678):**

**6.3.134.4 MLME-SENSMSMTSETUP.response**

## 6.3.134.4.1 Function

***To TGbf Editor: Please modify the text in 6.3.134.4.1 in D0.3 as follows.***

This primitive ~~is generated in response to a MLME-SENSMSMTSETUP.indication and~~ requests the transmission of a Sensing Measurement Setup Response frame (#678).

## 6.3.134.4.3 When generated

***To TGbf Editor: Please modify the text in 6.3.134.4.3 in D0.3 as follows.***

This primitive is generated by the SME in response to a MLME-SENSMSMTSETUP.indication primitive to request that a Sensing Measurement Setup Response frame be sent to a peer STA to either accept or reject a sensing measurement setup request (#678).

# CID 823

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 823 | 6.3.134.1 | 18.24 | Repetitive wording | Change text to: "... depict non-TB sensing measurement procedures (see 11.21.18.7 (Non-TB sensing measurement instance)). "remove: "that consiste of uplink sounding, downlink sounding, and both uplink and downlink sounding respectively" |

**Proposed resolution:** REVISED. Please incorporate the changes in 11/22-1772r2 under “Modifications” for CID 823

**Discussion:**

In the original text, the wording in the figure caption and the wording after “depicts” were identical. The text was revised in the CR document 1365r5, the SP for which was supported unanimously. The revised text is as follows:

**Modifications (#823):**

## 6.3.134.1 General

***To TGbf Editor: Please add “#823” to the end of the following text in 6.3.134.4.1 in D0.3 as follows.***

Figure 6-28b (WLAN sensing procedure with a non-TB sensing measurement instance(#819, #828, #389, #825, #212, #371, #731, #35, #822, #826, #827, #828) depicts a non-TB sensing measurement procedure that consists of NDPA sounding with SI2SR NDP or SR2SI NDP or both SI2SR NDP and SR2SI NDP (see 11.21.18.7 (Non-TB sensing measurement instance)) (#822, #826, #827, #829, #389, #823).

# CID 833

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| **CID** | **Subclause** | **Page** | **Comment** | **Proposed Change** |
| 833 | 6.3.134.5.3 | 22.12 | Missing classification of STA as "peer STA" | Change text to:"This primitive is generated by the MLME when the peer STA receives a Sensing Measurement Setup Response frame." |

**Proposed resolution:** REJECTED.

**Discussion:**



This primitive is MLME-SENSMSMTSETUP.confirm. This primitive is generated at the STA when this STA receives the Sensing Measurement Setup Response frame, not when the peer STA receives the response frame.

**SP**

Do you support the proposed modifications to the following CIDs in document 11-22/1772r0 and incorporate the changes into the latest TGbf draft:

55, 56, 57, 58, 59, 105, 113, 251, 252, 253, 457, 112, 114, 115, 116, 328, 390, 678, 823, 833

Y/N/A