IEEE P802.11
Wireless LANs

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| Comment Resolutions for D4.0 MLME CIDs |
| Date: 2019-10-29 |
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Abstract

This submission proposes resolutions of comments received from TGba comment collection (TGba Draft 3.0).

* CIDs: 4142, 4143, 4144, 4145 (4 CIDs)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Made some changes based on comments received over email from Yunsong.
1. **Introduction**

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 TGba Draft. The introduction and the explanation of the proposed changes are not part of the adopted material.

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

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| CID | Commenter | Clause  | Page | Line | Comment | Proposed Change | Resolution |
| 4142 | Yunsong Yang | 6.3.7.4.2 | 35 | 21 | The presence statement (i.e. the second sentence in Description column) for WUR Mode parameter in .indication is currently written in the same way as in .request, which is incorrect. Instead, the condition of presence should be based on if the WUR Mode element is present in the Associated Request frame received. | Replace the cited sentence with "The parameter is present if it is present in the Association Request frame received from the STA; otherwise, this parameter is not present." | **Revised.**Agree with the commenter that the presence condition should be based on the presence of the WUR Mode element in the received Association Request frame. TGba editor to make the changes shown in 11-19/1798r1 under all headings that include CID 4142. |
| 4143 | Yunsong Yang | 6.3.7.3.2 | 34 | 21 | The presence statement (i.e. the second sentence in Description column) for WUR Capabilities parameter in .confirm is currently written in the same way as in .request, which is incorrect. Instead, the condition of presence should be based on if the WUR Capabilities element is present in the Association Response frame received from the AP. The same issue exists for the presence statements of WUROperation parameter on L30 and WUR Mode parameter on L38. | Replace each of the three cited sentences with "The parameter is present if it is present in the Association Response frame received from the AP; otherwise, this parameter is not present." | **Revised.**Agree with the commenter that the presence condition for WUR Mode should be based on the presence of the WUR Mode element in the received Association Response frame since it is an optional field. However WUR Capabilities element and WUR Operation element are always present when dot11WUROptionImplemented is true and further conditions are not necessary. TGba editor to make the changes shown in 11-19/1798r1 under all headings that include CID 4143. |
| 4144 | Yunsong Yang | 6.3.8.3.2 | 37 | 22 | The presence statement (i.e. the second sentence in Description column) for WUR Capabilities parameter in .confirm is currently written in the same way as in .request, which is incorrect. Instead, the condition of presence should be based on if the WUR Capabilities element is present in the Reassociation Response frame received from the AP. The same issue exists for the presence statements of WUROperation parameter on L32 and WUR Mode parameter on L40. | Replace each of the three cited sentences with "The parameter is present if it is present in the Reassociation Response frame received from the AP; otherwise, this parameter is not present." | **Revised.**Agree with the commenter that the presence condition for WUR Mode should be based on the presence of the WUR Mode element in the received Reassociation Response frame since it is an optional field. However WUR Capabilities element and WUR Operation element are always present when dot11WUROptionImplemented is true and further conditions are not necessary. TGba editor to make the changes shown in 11-19/1798r1 under all headings that include CID 4144. |
| 4145 | Yunsong Yang | 6.3.8.4.2 | 38 | 21 | The presence statement (i.e. the second sentence in Description column) for WUR Mode parameter in .indication is currently written in the same way as in .request, which is incorrect. Instead, the condition of presence should be based on if the WUR Mode element is present in the Reassociation Request frame received. | Replace the cited sentence with "The parameter is present if it is present in the Reassociation Request frame received from the STA; otherwise, this parameter is not present." | **Revised.**Agree with the commenter that the presence condition should be based on the presence of the WUR Mode element in the received Reassociation Request frame. TGba editor to make the changes shown in 11-19/1798r1 under all headings that include CID 4145. |

**Discussion:** None

**Propose:**

Revised for CIDs 4142, 4143, 4144, 4145 as per discussion and editing instructions in 11-19/1798r1. In addition, changes have also been made in 6.3.94 (PN event report) and 6.3.94.3 (MLME-PN-WARNING.indication) to fix bugs in the Valid range of Key ID.

* MLME-ASSOCIATE.indication (CIDs 4142)
* Semantics of the service primitive

***TGba editor: Modify the section as the following (Track Changes ON):***

Change the primitive parameters as follows (not all existing parameters in the baseline are shown):

The primitive parameters are as follows:

MLME-ASSOCIATE.indication(

...,

WUR Capabilities,

WUR Mode,

VendorSpecificInfo

)

Insert the following entry into the unnumbered table in this subclause maintaining the primitive order above:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| WUR Capabilities | As defined in WUR Capabilities element | As defined in 9.4.2.297 (WUR Capabilities element) | Specifies the parameters within the WUR Capabilities element that are supported by the peer STA. The parameter is present if it is present in the Association Request frame received from the STA; otherwise, this parameter is not present. |
| WUR Mode | As defined in WUR Mode element | As defined in 9.4.2.299 (WUR Mode element) | Specifies the proposedservice parameters for theWUR Mode Setup request. The parameter is present if dot11WUROptionImplemented is true and the WUR Mode element is present in the Association Request frame received from the STA; otherwise, this parameter is not present. |

* MLME-ASSOCIATE.confirm (CIDs 4143)
* Semantics of the service primitive

***TGba editor: Modify the section as the following (Track Changes ON):***

Change the primitive parameters as follows (not all parameters are shown):

The primitive parameters are as follows:

MLME-ASSOCIATE.confirm(

...,

WUR Capabilities,

WUR Operation,

WUR Mode,(#3166)

VendorSpecificInfo

)

***Insert the following entries into the unnumbered table in this subclause maintaining the primitive order above:***

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| WUR Capabilities | As defined in WUR Capabilities element | As defined in 9.4.2.297 (WUR Capabilities element) | Specifies the parameters within the WUR Capabilities element that are supported by the WUR AP. The parameter is present if dot11WUROptionImplemented is true; otherwise, this parameter is not present. |
| WUR Operation | As defined in WUR Operation element | As defined in 9.4.2.298 (WUR Operation element) | Provides additional information for WUR operation. The parameter is present if dot11WUROptionImplemented is true; otherwise not present. |
| WUR Mode | As defined in WUR Mode element | As defined in 9.4.2.299 (WUR Mode element) | Specifies the proposedservice parameters for theWUR Mode Setup request. The parameter is present if dot11WUROptionImplemented is true and the WUR Mode element is present in the Association Response frame received from the AP; otherwise, this parameter is not present. |

* MLME-REASSOCIATE.confirm (CIDs 4144)
* Semantics of the service primitive

TGba editor: Modify the section as the following (Track Changes ON):

Change the primitive parameters as follows (not all existing parameters in the baseline are shown):

The primitive parameters are as follows:

MLME-REASSOCIATE.confirm(

...,

WUR Capabilities,

WUR Operation,

WUR Mode,

VendorSpecificInfo

)

***Insert the following entries into the unnumbered table in this subclause maintaining the primitive order above:***

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| WUR Capabilities | As defined in WUR Capabilities element | As defined in 9.4.2.297 (WUR Capabilities element) | Specifies the parameters within the WUR Capabilities element that are supported by the WUR AP. The parameter is present if dot11WUROptionImplemented is true; otherwise, this parameter is not present. |
| WUR Operation | As defined in WUR Operation element | As defined in 9.4.2.298 (WUR Operation element) | Provides additional information for WUR operation. The parameter is present if dot11WUROptionImplemented is true; otherwise not present. |
| WUR Mode | As defined in WUR Mode element | As defined in 9.4.2.299 (WUR Mode element) | Specifies the proposedservice parameters for theWUR Mode Setup request. The parameter is present if dot11WUROptionImplemented is true and the WUR Mode element is present in the Reassociation Response frame received from the AP; otherwise, this parameter is not present. |

* MLME-REASSOCIATE.indication (CIDs 4145)
* Semantics of the service primitive

TGba editor: Modify the section as the following (Track Changes ON):

Change the primitive parameters as follows (not all parameters are shown):

The primitive parameters are as follows:

MLME-REASSOCIATE.indication(

...,

WUR Capabilities,

WUR Mode,

VendorSpecificInfo

)

Insert the following entry into the unnumbered table in this subclause maintaining the primitive order above:

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| WUR Capabilities | As defined in WUR Capabilities element | As defined in 9.4.2.297 (WUR Capabilities element) | Specifies the parameters within the WUR Capabilities element that are supported by the peer STA. The parameter is present if it is present in the Association Request frame received from the STA; otherwise, this parameter is not present. |
| WUR Mode | As defined in WUR Mode element | As defined in 9.4.2.299 (WUR Mode element) | Specifies the proposedservice parameters for theWUR Mode Setup request. The parameter is present if dot11WUROptionImplemented is true and the WUR Mode element is present in the Reassociation Request frame received from the STA; otherwise, this parameter is not present. |

* PN event report
* MLME-PN-EXHAUSTION.indication
* Semantics of the service primitive

***TGba editor: Modify the section as the following (Track Changes ON):***

***Change the 1st table as follows:***

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| Key ID | Integer | 0–3 shall be usedwith WEP, TKIP,CCMP, andGCMP;4–5 with BIP; 6-7 with BIP for BIGTK; 8-9 with BIP for WIGTK; and~~8~~10–4095 are reserved | Key identifier. |
| Key Type | Integer | Group, Pairwise, PeerKey, IGTK, BIGTK, WIGTK | Defines whether this key is a group key, pairwise key, PeerKey, Integrity Group key, ~~or~~ beacon integrity group temporal key, or wake-up radio integrity group temporal key. |
| Address | MAC address | Any valid individual MAC address | This parameter is valid only when the Key Type value is Pairwise, or when the Key Type value is Group and is from an IBSS STA, or when the Key Type value is PeerKey. |

* MLME-PN-WARNING.indication
* Semantics of the service primitive

***TGba editor: Modify the section as the following (Track Changes ON):***

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Valid range | Description |
| Key ID | Integer | 0–3 shall be usedwith WEP, TKIP,CCMP, andGCMP;4–5 with BIP; 6-7 with BIP for BIGTK; 8-9 with BIP for WIGTK; and~~8~~10–4095 are reserved | Key identifier. |
| Key Type | Integer | Group, Pairwise, PeerKey, IGTK, BIGTK, WIGTK | Defines whether this key is a group key, pairwise key, PeerKey, Integrity Group key, ~~or~~ beacon integrity group temporal key, or wake-up radio integrity group temporal key. |
| Address | MAC address | Any valid individual MAC address | This parameter is valid only when the Key Type value is Pairwise, or when the Key Type value is Group and is from an IBSS STA, or when the Key Type value is PeerKey. |