IEEE P802.11  
Wireless LANs

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| LB240 CR Annex C | | | | |
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| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Yongho Seok | MediaTek Inc. | 2840 Junction Ave, San Jose, CA 95134 |  | [yongho.seok@mediatek.com](mailto:yongho.seok@mediatek.comnewracom.com) |
| Chao-Chun Wang | MediaTek Inc. |  |  |  |
| James Yee | MediaTek Inc. |  |  |  |

Abstract

This submission proposes resolutions of comments received from TGaz LB240.

(The proposed change is based on TGaz Draft 1.4.)

* CIDs: 1885, 1884, 1918, 1308, 1886, 1919, 1924, 1925, 1926 (9 CIDs)

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 TGaz Draft. This introduction is not part of the adopted material.

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

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

| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 1885 | 170.17 | 17 | C.3 | Definition of the dot11TriggedBasedRangingRespImplemented is missing | Please define the MIB variable | Revised-  dot11TriggedBasedRangingRespImplemented is a typo.  dot11TriggedBasedRangingRespImplemented is changed to dot11TriggerBasedRangingRespImplemented.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1884 | 170.29 | 29 | C.3 | Definition of the dot11RMCivicConfigured looks to be vacant, and it is not referred anyplace in the main body of the standard. | Please fix the use of dot11RMCivicConfigured | Revised-  It is an error of an editing instruction.  dot11RMCivicConfigured is defined in the baseline.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1918 | 171.19 | 19 | C.3 | Rename MIB attributes per WG recommendations | Control variables should use Activated (nor Allowed), not Implemented, per naming conventions. Capability variables should be Implemented, not Activated (see P174.26). | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1308 | 174.26 | 26 | MIB | "dot11PassiveLocationRangingResponderActivated OBJECT-TYPE": the formating of the MIB entry and the followign entries is not appropriate. Also I think the MIB is using courier font. | Reformat bad parts of MIB. | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1886 | 174.26 | 26 | C.3 | MIB description format is broken. | Please fix the format | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1919 | 176.24 | 24 | C.3 | Due to editorial oddities, I can't parse the text here | Clean up the editorial spacing and line ends, and confirm the text order, then fix the text order to make sense, as needed. | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1924 |  |  | C.3 | The MIB does not compile | As it says in the comment | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1925 |  |  | C.3 | Change tracking is inaccurate | 178.13, for example, is not actually an insertion | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |
| 1926 |  |  | C.3 | Capability variables cannot have a DEFVAL, obviously | As it says in the comment | Revised-  Agree in principle.  Annex C is written according IEEE styple guidline.  TGaz editor makes changes as specified in 11-19/1587r1. |

***TGaz Editor: Replace dot11TriggedBasedRangingRespImplemented with dot11TriggerBasedRangingRespImplemented throughout TGaz Draft.***

***TGaz Editor: Replace dot11NonTriggedBasedRangingRespImplemented with dot11NonTriggerBasedRangingRespImplemented throughout TGaz Draft.***

***TGaz Editor: Replace dot11PassiveLocationRangingResponderActivated with dot11PassiveLocationRangingResponderImplemented throughout TGaz Draft.***

***TGaz Editor: Replace dot11PassiveLocationRangingInitiatorActivated with dot11PassiveLocationRangingInitiatorImplemented throughout TGaz Draft.***

***TGaz Editor: Repalce Annex C with the following:***

# Annex C

**(normative)**

1. ASN.1 encoding of the MAC and PHY MIB

## C. 3 MIB detail

***Insert the following entry at the end the following object as shown below:***

Dot11StationConfigEntry ::= SEQUENCE

{

…

dot11MACPrivacyActivated TruthValue,

dot11GASExtensionImplemented TruthValue,

dot11LocallyAdministeredMACConfig Unsigned32,

dot11PASNActivated TruthValue,

dot11NoAuthPASNAllowed TruthValue }

***Insert a new object after the following object as shown below:***

dot11LocallyAdministeredMACConfig OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity or the SME. Changes take effect as soon as practical in the implementation. This attribute identifies an addressing plan to use for when associating with the BSS.

0: local addresses comply with the Structured Local Address Plan as defined in IEEE Std 802c-2017

1: local addresses are constructed according to vendor-specific local address plan."

DEFVAL {0}

::= { dot11StationConfigEntry 185 }

dot11PASNActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity or the SME.

Changes take effect for the next MLME-START.request primitive or MLME JOIN.request primitive. This attribute indicates whether or not PASN authentication is enabled."

DEFVAL { false }

::= { dot11StationConfigEntry <ANA> }

dot11NoAuthPASNAllowed OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity or the SME.

Changes take effect for the next MLME-START.request primitive or MLME JOIN.request primitive.This attribute indicates whether or not PASN without mutual authentication is allowed."

DEFVAL { false }

::= { dot11StationConfigEntry <ANA> }

***Insert the following entry at the end the following object as shown below****:*

Dot11WirelessMgmtOptionsEntry ::=

SEQUENCE {

…

dot11RMCivicConfigured TruthValue,

dot11SecureLTFImplemented TruthValue,

dot11TriggerBasedRangingRespImplemented TruthValue,

dot11NonTriggerBasedRangingRespImplemented TruthValue,

dot11RSTARequiresPMFActivated TruthValue,

dot11PassiveLocationRangingResponderImplemented TruthValue,

dot11PassiveLocationRangingInitiatorImplemented TruthValue,

dot11AoAMeasurementAvailable TruthValue,

dot11ISTA2RSTALMRFeedbackPolicy TruthValue }

***Insert a new object after the following object as shown below:***

dot11RMCivicConfigured OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by an external management entity which sets the Value to true when it configures dot11STACivicLocationEntry.

It is written by the STA when an external management entity configures dot11STALCIEntry.

Changes take effect as soon as practical in the implementation.

This attribute, when true, indicates that that the station is configured with a civic location (civic location is not Unknown). false indicates the station is not configured with an civic location or the configured civic Location is set to Unknown (as defined in 9.4.2.21.13 (Location Civic report))."

DEFVAL { false }

::= { dot11WirelessMgmtOptionsEntry 53 }

dot11SecureLTFImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This attribute, when true, indicates that a secure LTF measurement exchange protocol (see 11.22.6.4.6 (Secure LTF Measurement Exchange Protocol)) is implemented. The capability is disabled otherwise."

::= { dot11WirelessMgmtOptionsEntry 54 }

dot11TriggerBasedRangingRespImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable. Its value is determined by device capabilities. This attribute, when true, indicates that support for negotiating and executing TB Ranging measurement exchange as a Responding STA (see 11.22.6 (Fine Timing Measurement Procedure)) is implemented. The capability is disabled otherwise."

::= { dot11WirelessMgmtOptionsEntry 55 }

dot11NonTriggerBasedRangingRespImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.  
Its value is determined by device capabilities.

This attribute, when true, indicates that support for negotiating and executing non-TB Ranging measurement exchange as a Responding STA (see 11.22.6 (Fine Timing Measurement Procedure)) is  
implemented. The capability is disabled otherwise."

::= { dot11WirelessMgmtOptionsEntry 56 }

dot11RSTARequiresPMFActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.  
It is written by an external management entity or the SME.

Changes take effect at the next occurrence of an MLME-START.request or  
MLME-JOIN.request primitive.

This attribute, when true, indicates that the station requires Management Frame Protection for all management frames exchanged during the negotiation (see 11.22.6.3.1 Range Measurement Negotiation) and range measurement procedure (see 11.22.6.4.3 Measurement Exchange in TB Mode, 11.22.6.4.4 Measurement Exchange in non-TB Mode and 11.22.6.4.6 Secure non-TB and TB Measurement Exchange Protocol) to successfully negotiate a Range Measurement Session (see 11.22.6.3.1 (Range Measurement Negotiation)).

False indicates that the station does not require Management Frame Protection for all management frames exchanged during the negotiation (see 11.22.6.3.1 Range Measurement Negotiation) and range measurement procedure to successfully negotiate a Range Measurement session. False indicates that the station does not require Management Frame Protection for all management frames exchanged during negotiation and range measurement Procedure to successfully negotiate a Range Measurement session."

DEFVAL { false }

::= { dot11WirelessMgmtOptionsEntry 57 }

dot11PassiveLocationRangingResponderImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.  
Its value is determined by device capabilities.

This attribute, when true, indicates that a support for Passive Location Ranging acting as a responder is implemented (see subclause 11.22.6.4.10 Measurement Exchange in Passive Location Ranging mode) is implemented. The capability is disabled otherwise."

::= { dot11WirelessMgmtOptionsEntry 58 }

dot11PassiveLocationRangingInitiatorImplemented OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.  
Its value is determined by device capabilities.

This attribute, when true, indicates that a support for Passive Location Ranging acting as an initiator is implemented (see subclause 11.22.6.4.10 Measurement Exchange in Passive Location Ranging mode) is implemented. The capability is disabled otherwise."

::= { dot11WirelessMgmtOptionsEntry 59 }

dot11AoAMeasurementAvailable OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.  
Its value is determined by device capabilities.

This attribute, when true, indicates that the STA supports Angle-of-Arrival (AoA) measurements and feedback of these measurements is available via the LMR frame. When false, there is no such feedback available in the LMR frame."

::= { dot11WirelessMgmtOptionsEntry 60 }

dot11ISTA2RSTALMRFeedbackPolicy OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.  
It is written by an external management entity or the SME.

Changes take effect at the next occurrence of an MLME-START.request or  
MLME-JOIN.request primitive.

This attribute, when true, indicates that the station (RSTA) does not require any initiating stations to support the capability to generate and transmit ISTA-to-RSTA Location Measurement Reports (see 11.22.6.3.3 (Trigger-based and non-Trigger-based Ranging Measurement Negotiation)).   
False indicates that the stations shall negotiate the transmission of ISTA-to-RSTA Location Measurement Reporting. "

DEFVAL { true }

:= { dot11WirelessMgmtOptionsEntry 61 }

***Insert the following entry at the end the following object as shown below:***

Dot11RSNAConfigEntry ::=

SEQUENCE {

…

dot11RSNASAERetransPeriod Unsigned32,

dot11RSNASAEAntiCloggingThreshold Unsigned32,

dot11RSNASAESync Unsigned32,

dot11RSNAConfigPASNPTKSATimeout Unsigned32 }

***Insert a new object after the following object as shown below:***

dot11RSNASAESync OBJECT-TYPE

SYNTAX Unsigned32

MAX-ACCESS read-only

STATUS current

DESCRIPTION

"This is a capability variable.

Its value is determined by device capabilities.

This object specifies the maximum number of synchronization errors that are allowed to happen prior to disassociation of the offending SAE peer."

::= { dot11RSNAConfigEntry 42 }

dot11RSNAConfigPASNPTKSATimeout OBJECT-TYPE

SYNTAX Unsigned32 (1..4294967295)

UNITS "seconds"

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable. It is written by an external management entity. Changes take effect as soon as practical in the implementation. The time for which the derived PTKSA derived from PASN authentication is valid"

DEFVAL { 3600 }

::= { dot11RSNAConfigEntry 43 }

***Insert the following entry at the end the following object as shown below:***

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

-- \* Compliance Information

-- \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

dot11FineTimingMeasurement OBJECT-GROUP

OBJECTS {

dot11WirelessManagementImplemented,

dot11FineTimingMsmtRespActivated,

dot11FineTimingMsmtInitActivated,

dot11LciCivicInNeighborReport,

dot11RMFineTimingMsmtRangeRepImplemented,

dot11RMFineTimingMsmtRangeRepActivated,

dot11RMLCIMeasurementActivated,

dot11RMLCIConfigured,

dot11RMCivicMeasurementActivated,

dot11RMCivicConfigured,

dot11PASNActivated,

dot11NoAuthPASNAllowed,

dot11SecureLTFImplemented,

dot11TriggerBasedRangingRespImplemented,

dot11NonTriggerBasedRangingRespImplemented,

dot11RSTARequiresPMFActivated,

dot11PassiveLocationRangingResponderImplemented,

dot11PassiveLocationRangingInitiatorImplemented,

dot11AoAMeasurementAvailable,

dot11ISTA2RSTALMRFeedbackPolicy,

dot11RSNAConfigPASNPTKSATimeout

}

STATUS current

DESCRIPTION

"Attributes that configure the Fine Timing Measurement feature for IEEE Std 802.11."

::= { dot11Groups 93 }