IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Suggested resolution to MIB comments | | | | |
| Date: 2018-09-12 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Kazuyuki Sakoda | Sony |  |  | Kazuyuki.Sakoda (at) sony (dot) com |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This document provides suggested resolutions to CID 1245, 1246, and 1247. They are all related to error in MIB definitions.

R0: initial proposal.

R1: includes updates per discussion with Mark Hamilton

R2: simplified resolution to CID1247

R3: fixed some more bug relating to CID1247

# Comment:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **PP.LL** | **Comment** | **Proposed Change** | **Suggested Resolution** |
| 1247 | 3764.07 | dot11STACivicLocation is a control variable, but its MAX-ACCESS is not-accessible. Why we cannot access it? | Please clarify. | REVISED:   Adopt changes proposed in doc11-18/1636. |

# Discussion:

MAX-ACCESS of the dot11STACivicLocation is supposed to be read-write, as it is a control variable written by an external management entity or the SME.

FYI, there are some more issue with the MIB variable. There is no reference to dot11STACivicLocation in main body of the standard. The same thing apply to dot11STACivicLocationType.

# Suggested resolution:

Change dot11STACivicLocationConfig and dot11STACivicLocation as follows:

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

-- \* dot11STACivicLocationConfig Table

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

dot11STACivicLocationConfigTable OBJECT-TYPE

SYNTAX SEQUENCE OF Dot11STACivicLocationConfiguration

MAX-ACCESS not-accessible

STATUS current

DESCRIPTION

"This object represents the sequence of STA’s civic location."

::= { dot11smt 37 }

dot11STACivicLocation OBJECT-TYPE

SYNTAX OCTET STRING

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.

Civic Location is defined in 9.4.2.21.13 (Location Civic report)."

::= { dot11STACivicLocationConfiguration 2 }

# Comment:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **PP.LL** | **Comment** | **Proposed Change** | **Suggested Resolution** |
| 1246 | 3860.57 | dot11S1GTravelingPilotOptionActivated is a control variable, but its MAX-ACCESS is read-only. It should be read-write. The same problem are seen with dot11S1GLONGOptionActivated, dot11NonAPStationAuthAccessCategories, dot11NonAPStationAuthMaxVideoRate, dot11NonAPStationAuthMaxBestEffortRate, dot11NonAPStationAuthMaxBackgroundRate, dot11NonAPStationAuthMaxVoiceOctets, dot11NonAPStationAuthMaxVideoOctets, dot11NonAPStationAuthMaxBestEffortOctets, dot11NonAPStationAuthMaxBackgroundOctets, dot11NonAPStationAuthMaxHCCAHEMMOctets, dot11NonAPStationAuthMaxTotalOctets, dot11NonAPStationAuthMaxHCCAHEMMRate, etc. | Replace "read-only" with "read-write" w.r.t. the variables cited in the comment. | REVISED:   Adopt changes proposed in doc11-18/1636. |

# Discussion:

Based on the guideline given by ARC SC, 11-15/355r13, “MIB TruthValue usage patterns”. We should amend control MIB as follows:

* If the value is written by an external entity beyond “STA”, its MAX-ACCESS is read-write.
* If the value is written by SME of the STA, its MAX-ACCESS is read-only. (This part have been changed recently)

# Suggested resolution:

dot11S1GTravelingPilotOptionActivated OBJECT-TYPE

SYNTAX TruthValue

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.

This attribute, when true, indicates that the traveling pilot option is enabled."

DEFVAL { false }

::= { dot11PhyS1GEntry 27 }

dot11S1GLONGOptionActivated OBJECT-TYPE

SYNTAX TruthValue

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.

This attribute, when true, indicates that the S1G\_Long operation is enabled."

DEFVAL { false }

::= { dot11PhyS1GEntry 29 }

# Comment:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **PP.LL** | **Comment** | **Proposed Change** | **Suggested Resolution** |
| 1245 | 3728.26 | dot11GCRActivated is a control variable, but its MAX-ACCESS is read-only. It should be read-write. The same problem are seen with dot11AdvancedGCRActivated, dot11SCSActivated, dot11QLoadReportActivated, dot11AlternateEDCAActivated, dot11GCRGroupMembershipAnnouncementActivated, dot11APPMActivated, dot11BDTImplemented, etc. | Replace "read-only" with "read-write" w.r.t. the variables cited in the comment. | REVISED:   Adopt changes proposed in doc11-18/1636. |

# Discussion:

Most of the problem is supposed to be introduced by “copy and paste” error.

# Suggested resolution:

dot11GCRActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by the SME or external management entity.

Changes take effect for the next MLME-START.request primitive

or MLME-JOIN.request primitive.

This attribute, when true, indicates that the station

implementation supports the GCR procedures as defined in 11.22.16.3 (GCR procedures) and that this has been activated."

DEFVAL { false }

::= { dot11AVOptionsEntry 1 }

dot11SCSActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by the SME or external management entity.

Changes take effect for the next MLME-START.request primitive

or MLME-JOIN.request primitive.

This attribute, when true, indicates that the station implementation supports the stream classification service and that this has been activated."

DEFVAL { false }

::= { dot11AVOptionsEntry 5 }

dot11QLoadReportActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by the SME or external management entity.

Changes take effect for the next MLME-START.request primitive.

This attribute, when true, indicates that the AP performs the QLoad report procedures described in 11.26.2 (QLoad Report element)."

DEFVAL { false }

::= { dot11AVOptionsEntry 6 }

dot11AlternateEDCAActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by the SME or external management entity.

Changes take effect for the next MLME-START.request primitive.

This attribute, when true, indicates that the station can additionally use the Alternate EDCA transmit queues."

DEFVAL { false }

::= { dot11AVOptionsEntry 7 }

dot11GCRGroupMembershipAnnouncementActivated OBJECT-TYPE

SYNTAX TruthValue

MAX-ACCESS read-write

STATUS current

DESCRIPTION

"This is a control variable.

It is written by the SME or external management entity.

Changes take effect as soon as practical in the implementation.

This attribute, when true, indicates that the STA sends unsolicited Group Membership Response frames when its dot11GroupAddressesTable changes."

DEFVAL { false }

::= { dot11AVOptionsEntry 8 }

dot11APPMActivated OBJECT-TYPE

SYNTAX TruthValue

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.

This attribute indicates if the AP may go to doze state."

DEFVAL { false }

::= { dot11S1GStationConfigEntry 50}

dot11BDTImplemented OBJECT-TYPE

SYNTAX TruthValue

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.

This attribute, when true, indicates that the station implementation is capable of supporting the bidirectional TXOP Operation. The capability is disabled, otherwise."

DEFVAL { false }

::= { dot11S1GStationConfigEntry 51}

# Reference:

[1] Draft P802.11REVmd\_D1.4.

[2] 11-17/670 “REVmd Working Group Comments for PHY ad-hoc”

[3] 11-15/355r13 “MIB TruthValue usage patterns”