IEEE P802.11
Wireless LANs

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| LB258: Resolution for CID 2334 |
| Date: 2022-01-21 |
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Abstract

This submission proposes resolution for the following CID submitted to LB258 for P802.11REVme (**1 CID**):

* 2334

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| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **PP.LL** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 2334 | Tomoko Adachi | 5191.54 | C.3 | While PCF is deleted, MIB parameters related to PCF are still remaining in Annex C. | Delete "dot11CFPollable", "dot11CFPPeriod", "dot11CFPMaxDuration" and related descriptions throughout the draft. (They appear in pages 5191, 5195, 5716, 5719, 5720, 5721, 5723, 5725, 5726, 5732, 5734, 5737, 5739, 5744, and 5757.) | \*Revised. See the instructions to the TGm editor in doc. 11-22/XXXXr0. |

***TGm editor: The baseline for this document is REVme D1.0.***

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

**Discussion**

The MIB objects related to PCF, i.e., dot11CFPollable, dot11CFPPeriod, and dot11CFPMaxDuration, are still remaining in Annex C while PCF was deleted in IEEE Std 802.11-2020.

When considering to delete these MIB objects from the draft, there is a notice appearing in p.5757 of C.3 as follows:

-- dot11SMTbase13 includes all changes made between IEEE Std 802.11-2012 and IEEE Std 802.11-2016.

-- Amendments to Std 802.11-2016 should not make any modifications to dot11SMTbase13. The first amendment needing to modify the dot11SMTbase object should deprecate dot11SMTbase13 and define a replacement to hold changes.

By respecting the description "STATUS deprecated" in the MIB object classes, there is no problem leaving the PCF related MIB objects in the old MIB object classes prior to dot11SMTbase13, i.e., dot11SMTbase, dot11SMTbase2, …, and dot11SMTbase12.

And other deprecated MIB objects such as dot11MediumOccupancyLimit and dot11AuthenticationResponseTimeout are kept and also left in the object entries of these MIB object classes.

Why these MIB objects were kept is based on doc.: IEEE 802.11-19/0040r2.

Therefore, the past deprecated MIB object classes and the deprecated objects should be kept as-is.

(Note that from dot11SMTbase15, the MIB objects related to PCF are not added.)

However, above notice should be set before the latest effective dot11SMTbaseXX, undersanding its intention.

Currently the latest dot11SMTbaseXX is dot11SMTbase16.

Furthermore, it should be noted that dot11SMTbase15 that was superseded by SMTbase16 still has its status as "current". This should be corrected to "deprecated".

And also looking into dot11SMTbase16 which is the latest one, it doesn't have objects other than dot11HEOptionImplemented, while superseded dot11SMTbase15 holds a plenty of objects. Therefore, all the effective objects should be transplanted to dot11SMTbase16 from dot11SMTbase15.

##### Annex C

(normative)

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

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##### C.3 MIB detail

***TGm editor: Delete the following text starting from p.5757 under this subclause as follows:***

***TGm editor: Change the following text starting from p.5757 under this subclause as follows (note that there are a format change, deletion of an extra space, and a new line break):***

dot11SMTbase13 OBJECT-GROUP

OBJECTS {

dot11MediumOccupancyLimit,

dot11CFPollable,

dot11CFPPeriod,

dot11CFPMaxDuration,

dot11PrivacyOptionImplemented,

…

}

STATUS deprecated

DESCRIPTION

"Superseded by dot11SMTbase15.

The SMTbase13 object class provides the necessary support at the STA to manage the processes in the STA such that the STA may work cooperatively as a part of an IEEE 802.11 network."

::= { dot11Groups 92 }

***TGm editor: Change the following text starting from p.5761 under this subclause as follows:***

-- Amendments to Std 802.11-2020 should not make any modifications to dot11SMTbase16. The first amendment needing to modify the dot11SMTbase object should deprecate dot11SMTbase16 and define a replacement to hold changes.

(11ax)dot11SMTbase16 OBJECT-GROUP

OBJECTS {

dot11PrivacyOptionImplemented,

dot11PowerManagementMode,

dot11DesiredSSID,

dot11DesiredBSSType,

dot11OperationalRateSet,

dot11BeaconPeriod,

dot11DTIMPeriod,

dot11AssociationResponseTimeout,

dot11DisassociateReason,

dot11DisassociateStation,

dot11DeauthenticateReason,

dot11DeauthenticateStation,

dot11AuthenticateFailStatus,

dot11AuthenticateFailStation,

dot11MultiDomainCapabilityImplemented,

dot11MultiDomainCapabilityActivated,

dot11CountryString,

dot11SpectrumManagementImplemented,

dot11SpectrumManagementRequired,

dot11RSNAOptionImplemented,

dot11OperatingClassesImplemented,

dot11OperatingClassesRequired,

dot11QosOptionImplemented,

dot11ImmediateBlockAckOptionImplemented,

dot11DirectOptionImplemented,

dot11APSDOptionImplemented,

dot11QAckOptionImplemented,

dot11QBSSLoadImplemented,

dot11QueueRequestOptionImplemented,

dot11TXOPRequestOptionImplemented,

dot11MoreDataAckOptionImplemented,

dot11AssociateInNQBSS,

dot11AssociateStation,

dot11AssociateID,

dot11AssociateFailStation,

dot11AssociateFailStatus,

dot11ReassociateStation,

dot11ReassociateID,

dot11ReassociateFailStation,

dot11ReassociateFailStatus,

dot11RadioMeasurementImplemented,

dot11RadioMeasurementActivated,

dot11RMMeasurementNavSync,

dot11RMMeasurementPilotPeriod,

dot11RMLinkMeasurementActivated,

dot11RMNeighborReportActivated,

dot11RMParallelMeasurementsActivated,

dot11RMRepeatedMeasurementsActivated,

dot11RMBeaconPassiveMeasurementActivated,

dot11RMBeaconActiveMeasurementActivated,

dot11RMBeaconTableMeasurementActivated,

dot11RMBeaconMeasurementReportingConditionsActivated,

dot11RMFrameMeasurementActivated,

dot11RMChannelLoadMeasurementActivated,

dot11RMNoiseHistogramMeasurementActivated,

dot11RMStatisticsMeasurementActivated,

dot11RMLCIMeasurementActivated,

dot11RMLCIAzimuthActivated,

dot11RMTransmitStreamCategoryMeasurementActivated,

dot11RMTriggeredTransmitStreamCategoryMeasurementActivated,

dot11RMAPChannelReportActivated,

dot11RMMIBActivated,

dot11RMMaxMeasurementDuration,

dot11RMNonOperatingChannelMaxMeasurementDuration,

dot11RMMeasurementPilotTransmissionInformationActivated,

dot11RMMeasurementPilotActivated,

dot11RMNeighborReportTSFOffsetActivated,

dot11RMRCPIMeasurementActivated,

dot11RMRSNIMeasurementActivated,

dot11RMBSSAverageAccessDelayActivated,

dot11RMBSSAvailableAdmissionCapacityActivated,

dot11FastBSSTransitionImplemented,

dot11LCIDSEImplemented,

dot11LCIDSERequired,

dot11DSERequired,

dot11ExtendedChannelSwitchActivated,

dot11HighThroughputOptionImplemented,

dot11WirelessManagementImplemented,

dot11MeshActivated,

dot11RSNAPBACRequired,

dot11PSMPOptionImplemented,

dot11MaxMSDULength,

dot11ExtendedSpectrumManagementImplemented,

dot11EstimatedServiceParametersInboundOptionImplemented,

dot11EstimatedServiceParametersOutboundOptionImplemented,

dot11FutureChannelGuidanceActivated,

dot11HEOptionImplemented

}

STATUS current

DESCRIPTION

"The SMTbase16 object class provides the necessary support at the STA to manage the processes in the STA such that the STA may work cooperatively as a part of an IEEE 802.11 network."

::= { dot11Groups 101 }

***TGm editor: Change the following text starting from p.5766 under this subclause as follows:***

dot11SMTbase15 OBJECT-GROUP

OBJECTS {

dot11PrivacyOptionImplemented,

dot11PowerManagementMode,

dot11DesiredSSID,

dot11DesiredBSSType,

dot11OperationalRateSet,

dot11BeaconPeriod,

dot11DTIMPeriod,

dot11AssociationResponseTimeout,

dot11DisassociateReason,

dot11DisassociateStation,

dot11DeauthenticateReason,

dot11DeauthenticateStation,

dot11AuthenticateFailStatus,

dot11AuthenticateFailStation,

dot11MultiDomainCapabilityImplemented,

dot11MultiDomainCapabilityActivated,

dot11CountryString,

dot11SpectrumManagementImplemented,

dot11SpectrumManagementRequired,

dot11RSNAOptionImplemented,

dot11OperatingClassesImplemented,

dot11OperatingClassesRequired,

dot11QosOptionImplemented,

dot11ImmediateBlockAckOptionImplemented,

dot11DirectOptionImplemented,

dot11APSDOptionImplemented,

dot11QAckOptionImplemented,

dot11QBSSLoadImplemented,

dot11QueueRequestOptionImplemented,

dot11TXOPRequestOptionImplemented,

dot11MoreDataAckOptionImplemented,

dot11AssociateInNQBSS,

dot11AssociateStation,

dot11AssociateID,

dot11AssociateFailStation,

dot11AssociateFailStatus,

dot11ReassociateStation,

dot11ReassociateID,

dot11ReassociateFailStation,

dot11ReassociateFailStatus,

dot11RadioMeasurementImplemented,

dot11RadioMeasurementActivated,

dot11RMMeasurementNavSync,

dot11RMMeasurementPilotPeriod,

dot11RMLinkMeasurementActivated,

dot11RMNeighborReportActivated,

dot11RMParallelMeasurementsActivated,

dot11RMRepeatedMeasurementsActivated,

dot11RMBeaconPassiveMeasurementActivated,

dot11RMBeaconActiveMeasurementActivated,

dot11RMBeaconTableMeasurementActivated,

dot11RMBeaconMeasurementReportingConditionsActivated,

dot11RMFrameMeasurementActivated,

dot11RMChannelLoadMeasurementActivated,

dot11RMNoiseHistogramMeasurementActivated,

dot11RMStatisticsMeasurementActivated,

dot11RMLCIMeasurementActivated,

dot11RMLCIAzimuthActivated,

dot11RMTransmitStreamCategoryMeasurementActivated,

dot11RMTriggeredTransmitStreamCategoryMeasurementActivated,

dot11RMAPChannelReportActivated,

dot11RMMIBActivated,

dot11RMMaxMeasurementDuration,

dot11RMNonOperatingChannelMaxMeasurementDuration,

dot11RMMeasurementPilotTransmissionInformationActivated,

dot11RMMeasurementPilotActivated,

dot11RMNeighborReportTSFOffsetActivated,

dot11RMRCPIMeasurementActivated,

dot11RMRSNIMeasurementActivated,

dot11RMBSSAverageAccessDelayActivated,

dot11RMBSSAvailableAdmissionCapacityActivated,

dot11FastBSSTransitionImplemented,

dot11LCIDSEImplemented,

dot11LCIDSERequired,

dot11DSERequired,

dot11ExtendedChannelSwitchActivated,

dot11HighThroughputOptionImplemented,

dot11WirelessManagementImplemented,

dot11MeshActivated,

dot11RSNAPBACRequired,

dot11PSMPOptionImplemented,

dot11MaxMSDULength,

dot11ExtendedSpectrumManagementImplemented,

dot11EstimatedServiceParametersInboundOptionImplemented,

dot11EstimatedServiceParametersOutboundOptionImplemented,

dot11FutureChannelGuidanceActivated

}

STATUS deprecated

DESCRIPTION

"(11ax)Superseded by dot11SMTbase16.

The SMTbase15 object class provides the necessary support at the STA to manage the processes in the STA such that the STA may work cooperatively as a part of an IEEE 802.11 network."

::= { dot11Groups 109 }

##### 10. MAC sublayer functional description

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##### 10.2 MAC architecture

##### 10.2.1 General

***TGm editor: Delete "PCF, " from Figure 10-1 in p.2704 as follows (updated Visio figure will be sent to the TGm editors):***



**Figure 10-1—Non-DMG non-CMMG non-S1G STA MAC architecture(11ax)(11ba)**