IEEE P802.11
Wireless LANs

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| Discussion and Proposed Modifications to Annex C |
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Abstract

This submission examines MIB concepts and recommends modifications to Annex C.

**Discussion**

* References
	+ [09/0533r1](https://mentor.ieee.org/802.11/dcn/09/11-09-0533-01-0arc-recomendation-re-mib-types-and-usage.ppt), Recomendation-re-MIB-types-and-usage
	+ [15/0355r13](https://mentor.ieee.org/802.11/dcn/15/11-15-0355-13-0arc-mib-truthvalue-usage-patterns.docx), MIB TruthValue usage patterns

From 09/0533r1,

* MIB is Management Information Base
* Purpose is to manage STAs and entities within STAs to allow proper and useful interoperation in a wireless network
* Such management is provided by interaction between entities to provide status and exert control
	+ MIB attributes (a.k.a. “objects” or “variables”) provide an implicit interface between entities through read (“GET”) and write (“SET”) operations.
* Types of MIB attributes
	+ **Capability**: Static, initialized by entity as part of instantiation, read by other entities.
		- dot11XxxImplemented, dot11RadioMeasurementCapable, dot11ChannelAgilityPresent, dot11FTResourceRequestSupported, dot11ExtendedChannelSwitchEnabled
	+ **Status**: Dynamic, written by the entity to expose current conditions to reading entities.
		- dot11XxxCount, dot11RadioMeasurementEnabled
	+ **Control**: Dynamic, written by another entity to control the applicable entity’s manageable behaviors.
		- dot11RTSThreshold, dot11ShortRetryLimit, dot11LongRetryLimit, dot11FragmentationThreshold, dot11PrivacyInvoked



* **MIB attributes are not local variables**
	+ Attributes accessed solely within the entity do not provide any management function
	+ Local variables are those that are not exposed outside an entity, for read or write
	+ Some example local variables – NAV, used\_time, admitted\_time, aXxxXxx (e.g. aSlotTime), CW, SSRC, SLRC
	+ **Local variables should not be part of the MIB**
	+ Some local variables could be used solely within the Standard’s text, if useful to clarify conforming behaviors, and don’t need formal definition

**Discussion (cont.)**

* In P802.11bf D1.0’s Annex C:











* + Some/all of the definitions listed above must be removed from Annex C.
* And in Table 11-29a we have:
	+ “Sensing Frame Exchange Timeout value” is correctly defined as a local variable (and does not appear in Annex C).
	+ The other three could have been defined as a status MIB attribute.



* Note: Duplicate definition?



**Discussion (cont.)**

**Example 1:**



**Example 2**



**Example 3**



**Example 4**



**Modifications**: Editor, change the existing text in 3.2 as follows:

TBD