IEEE P802.11  
Wireless LANs

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| LB205 MAC Resolution to Comments in D3.0 Subclauses 10.3.5.11, 10.5.22, 10.44c.7 | | | | |
| Date: 2014-12-1 | | | | |
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Abstract

This submission proposes resolution to comments in D3.0 subclauses 10.3.5.11, 10.5.22, and 10.44c.7. There are total 7 CIDs addressed: 5467, 5459, 5460, 5461, 5345, 5113, and 5114.

Revision History:

Rev1:

**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 TGah Draft. This introduction is not part of the adopted material.

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

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

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| 5467 | 347.09 | 10.5.2.2 | "If the S1G originator has the dot11BATImplemented equal to true": again the dot11... variable is not something independent of the S1G STA | Replace "If the S1G originator has the dot11BATImplemented equal to true" with "If the S1G originator's dot11BATImplemented is true" | Revised.  Agreed in principle.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5467. |

**[CID 5467]**

**Instruction to TGah editor: Please modify the first bullet point under item b) in subclause 10.5.2.2 (Procedure at the originator) of TGah D3.1 as follows (changes highlighted in red):**

- If the S1G originator’s ~~has the~~ dot11BATImplemented ~~equal to~~is true and the BAT Support subfield in the most recently received S1G Capabilities element from the S1G recipient is 1 and a TWT has been setup with the S1G recipient as described in 9.42a (Target wake time (TWT)), then the S1G originator shall send a BAT ADDBA Request to indicate that it expects only BAT frames during the block ack session.

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| 5459 | 344.45 | 10.3.5.11 | | The contents of the CRC's resolution field for CID3433 claimed that "type" in "sensor type service" is appropriate because "sensor type" is defined. But "sensor type" is not defined in D3.0, so the undefined "sensor type" should be removed here. | Replace "sensor type service" with "sensor service" throughout the draft. | Revised.  Agreed in principle.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5459. |
| 5460 | 344.45 | 10.3.5.11 | | "A sensor type service is the service that a sensor STA is able to provide." However, the definition of "sensor station" does not distinuish a sensor station (if one assumes that a sensor station is actually an 802.11 station -- a claim that is unsupported in this draft) from any other non-AP 802.11 station.  If the vague "sensor station" definition is dropped, it might be worthwhile to replace it with a definition of "sensor service" -- assuming, of course, that the new definition of "sensor service" clearly distinguishes "sensor service" from "non-sensor service" in terms that are relevant to 802.11. One criterion for such a definition: of what relevance is the word "sensor" to 802.11 functions? Does that word mean anything, in terms of 802.11 functions, beyond "very low power STA"? If so, then those 802.11 functions need to be clearly specified in that definition.). One way to do this would be to list all of the specific 802.11 functional differences between the sensor and non-sensor services. | Either create a new, clear, 802.11-functional definition of "sensor service" and use that in place of "sensor station" or delete all references to sensor STAs and sensor services from this document. Start by deleting, on this page: "A sensor type service is the service that a sensor STA is able to provide." | Revised.  Agreed to improve the definition of “sensor service” and the sensor station is only applicable to S1G STA.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5460. |
| 5461 | 344.49 | 10.3.5.11 | | "or provide a high priority on association/reassociation for a STA that provides" -- overuse of "provide" in a sentence. | Replace "or provide a high priority on" with "or place a high priority on". | Revised.  Agreed in principle.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5461. |
| 5345 | 360.54 | | 10.44c.7 | This subclause describes how an S1G AP and a non-AP set the STA Type Support field to define its station type or supported station types. However these terminologies are used across the draft also to define the signaling for certain features. But the terminology that is used to indicate the same thing differs from one subclause to another. For example in some cases the STA Type setting is used for such an indication, in certain cases whether the device is a sensor or non-sensor STA is used. This makes it confusing. | Ensure that the same terminology for conditional support of certain features (depending on the STA Type Support field) across the draft is coherent and inline with the terminology defined in this subclause to avoid confusion. Same observation within this subclause as well. | Rejected.  The comment is not specific and no actionable resolution is provided. |
| 5113 | 360.54 | | 10.44c.7 | the basic component in .11 is a STA. Now 11ah introduces sensor STA and non sensor STA. Does this imply the need to change every occurrence of the word STA in .11 to either sensor or non-sensor? | clarify. | Revised.  Clarified that the definition of sensor STA is only applicable to S1G STA.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5113. |
| 5114 | 361.01 | | 10.44c.7 | what is a non-sensor BSS. It seems that 11ah is creating a nightmare by the introduction of all these new types of devices | maybe use S1G sensor BSS and S1G non-sensor BSS. | Revised.  Clarified that the BSS types are for S1G BSS.  TGah editor to make the changes shown in 11-14/1577r0 under all headings that include CID 5114. |

**[CID 5459, 5460, 5461]**

**Instruction to TGah editor: Please modify the first paragraph of the subclause 10.3.5.11 (Service type indication during association) of TGah D3.1 as follows:**

A sensor ~~type~~ service is the service that a sensor STA is ~~able~~ ~~to provide~~ capable of provisioning that is usually delivered using small payload data frames. Non-sensor ~~type~~ services include offloading and critical services. Different service types may have different requirements on QoS, packet size, duty cycle etc. An AP can optimize the system operating parameters with the knowledge of service type of each associated STA or ~~providej~~place a high priority on association/reassociation for a STA that provides critical services such as health care, home, industrial, alarm monitoring or emergency service.

**[CID 5460, 5113]**

**Instruction to TGah editor: Please modify the following definition in Subclause 3.2 (Definitions specific to IEEE 802.11) of TGah D3.1 as follows:**

* **sensor station (STA)**: A sensor STA is a S1G non-AP STA using data frames with small payload size. A sensor STA is also expected to have limited available power and low traffic volume.

**[CID 5114]**

**Instruction to TGah editor: Please modify the 3rd paragraph of Subclause 10.48.7 (S1G BSS type and STA type) of TGah D3.1 as follows:**

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… …

There are three types of S1G BSS that an S1G AP can set up: sensor BSS, non-sensor BSS, or mixed BSS. A sensor BSS only supports sensor STAs. A non-sensor BSS supports only non-sensor STAs. A mixed BSS supports both sensor and non-sensor STAs.

… …