IEEE P802.11  
Wireless LANs

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| LB203 Comment resolution for clause 9 (CID 3947,3949, 3963) | | | | |
| Date: 2014-09-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Mitsuru Iwaoka | Yokogawa Electric Corporation | 2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750, Japan | +81-422-52-5519 | Mitsuru.Iwaoka@  jp.yokogawa.com |
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Abstract

This submission proposes resolutions for following comments in LB203 to P802.11ah Draft 2.0:

- 3947 (for 9.21.2.1)

- 3949 (for 9.27.1)

- 3963 (for 9.13)

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Change the resolution of CID 3947 as discussion in Sep. 15 MAC ad-hoc.

### 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.***

### Comments Resolutions

| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| --- | --- | --- | --- | --- | --- | --- |
| 3947 | 9.21.2.1 | 252 | 44 | The subclause 9.2.4.2 specifies that a Sensor type S1G STA transmits all the frames using the same access category AC\_BE (P222L2). This means an S1G STA that is a Sensor type STA always implements a single AC. | Change the 3rd paragraph as follows;  ---  A DMG STA may implement a single AC. An S1G STA that is a Sensor type STA shall implement a single AC. If the DMG or S1G STA implements a single AC, all UP and frame types shall be mapped to AC\_BE. | Revised.  A Sensor type STA may implement a single AC. The descriptive text in 9.2.4.2 is misleading and redundant and should be removed.  TGah editor to make changes shown in 11-14/1128r1 under the heading for CID 3947. |
| 3963 | 9.13 |  |  | The subclause 9.13 (PPDU duration constraint) of P802.11mc D2.5 is also applied to an S1G STA, and needs to be amended. | Replace "HT STA" by "HT STA and S1G STA" in the subclause 9.13 (PPDU duration constraint). | Revised.  Agree in principle.  However, it is better to change draft text directly.  TGah editor to make changes shown in 11-14/ 1128r1 under the heading for CID 3963. |
| 3949 | 9.27.1 | 269 | 38 | As an S1G STA may support the Reverse direction (RD) protocol (see P269L38), it is necessary to amend subclause 9.27 for the S1G STA. | Insert a following text at the end of subclause 9.27.1 (P269L50).  ---  For an S1G STA, the same RD protocol is applied, with "VHT" is replaced by "S1G" and "HT STA" replaced by "S1G STA" through the subclause 9.27.2 (Reverse direction (RD) exchange sequence) to the subclause 9.27.4 (Rules for RD responder). | Revised.  Agree in principle.  However, it is better to change draft text directly.  TGah editor to make changes shown in 11-14/ 1128r1 under the heading for CID 3949. |

**Proposed Remedy for CID 3947:**

* + - 1. **HCF contention-based channel access (EDCA)**

***TGah Editor: Remove the last sentense of this subclause as follows:***

~~An S1G STA that is a Sensor type STA transmits all the frames (including PS-Poll, PS-Poll+BDT and NDP PS-Poll frames) using the same access category AC\_BE as described in 9.22.2.1 (Reference model).~~

**Proposed Remedy for CID 3963:**

***TGah Editor: Insert the following text as subclause 9.14:***

* 1. **PPDU duration constraint**

***Change the first paragraph of this subclause as follows:***

An HT STA and an S1G STA shall not transmit a PPDU that has a duration (as determined by the PHY-TXTIME.confirm primitive defined in 6.5.7 (PLME-TXTIME.request)) that is greater than aPPDUMaxTime.

***[Note for TGah Editor]*** The PHY-TXTIME.confirm primitive is defined in 6.5.8, not 6.5.7. However, this error shall be commented to 11mc.

**Proposed Remedy for CID 3949:**

***TGah Editor: Insert the following text as subclause 9.28.2 to 9.28.4:***

### 9.28.2 Reverse direction (RD) exchange sequence

***Insert the new NOTE after the NOTE 2 of this subclause as follows:***

NOTE 3—If the RD responder is an S1G AP, the RD response burst can contain S1G MU PPDUs that might have TXVECTOR parameter NUM\_USERS > 1.

### 9.28.3 Rules for RD initiator

***Change the item a)-2) of the sixth paragraph of the subclause as follows:***

1. For an HT STA or an S1G STA, contains one or more received frames that are capable of carrying the HT Control field but did not contain an HT Control field.

### 9.28.4 Rules for RD responder

***Change the seventh paragraph of the subclause as follows:***

During an RD response burst any PPDU transmitted by an RD responder shall contain at least one MPDU with an Address 1 field that matches the MAC address of the RD initiator, and the inclusion of traffic to STAs other than the RD initiator in a VHT MU PPDU or an S1G MU PPDU shall not increase the duration of the VHT MU PPDU and the S1G MU PPDU beyond that required to transport the traffic to the RD initiator. The RD responder shall not transmit any frame causing a response after SIFS with an Address 1 field that does not match the MAC address of the RD initiator. The RD responder shall not transmit any PPDUs with a CH\_BANDWIDTH that is wider than the CH\_BANDWIDTH of the PPDU containing the frame(s) that delivered the RD grant.