IEEE P802.11
Wireless LANs

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| LB 200 Comment Resolution for Clause 10.46 |
| Date: 2014-01-01 |
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Abstract

This submission proposes resolutions for comments that impact clause 10.46 of TGah Draft 1.0:

1292, 1293, 1294, 1295, 1949

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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| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1292 | 228.03 | 10.46.1 | There is no sibling to 10.46.1. | Delete heading, rename 10.46 "Short Beacon frame update procedure" | Agree with the commenter. Revised –TGah editor to rename heading “10.46 (Short Beacon)” to “10.46 (System information update procedure)” and remove heading “10.46.1 System information update procedure)”. |
| 1293 | 228.22 | 10.46.1 | "a Probe Request frame for obtaining the" - grammar | "a Probe Request frame to obtain the" | Agree with the commenter. Resolution accounts for the proposed change.Revised –TGah editor to make changes shown in 14/0072r0 under the heading for CIDs from 1292 to 1949. |
| 1294 | 228.23 | 10.46.1  | " in the Probe Request frame for asking the compressed Probe Response frame" -- grammar | " in the Probe Request frame to request a compressed Probe Response frame" | Agree with the commenter. Resolution accounts for the proposed change.Revised –TGah editor to make changes shown in 14/0072r0 under the heading for CIDs from 1292 to 1949. |
| 1295 | 228.32 | 10.46.1  | " If the S1G AP receives a Probe Request frame including a Change Sequence element with an invalid value which the AP does not store,""Invalid value" is undefined"which the AP does not store" does not belong in the normative statement. | Define what comprises an invalid value. Remove "which the AP does not store, or turn it into a requirement "the AP shall not store this value and shall send a Probe Response ..". | Agree in principle with the commenter. The existing normative text recommends an AP to generate a compressed Probe Response frame if the Change Sequence field of a Probe Request includes a value that is not equal to the value stored at the AP. Proposed resolution is to specify that in all other cases the AP shall send a Probe Response frame as in baseline and remove the part of the sentence that generates confusion.Revised –TGah editor to make changes shown in 14/0072r0 under the heading for CIDs from 1292 to 1949. |
| 1949 | 250.01 | 10.46 | What is difference between Short Beacon and (Short) Beacon? In other places I see (Short) Beacon used a lot . | Clarify when "(Short) Beacon" is used and when "Short Beacon" is used. Be consistent. I assume it is simply 'short beacon or beacon'. Maybe then it is acceptable to use the brackets, not sure, check with Adrian.. | Agree in principle with the commenter. This subclause is related to Short Beacon frames. Proposed resolution is to clarify this.Revised –TGah editor to make changes shown in 14/0072r0 under the heading for CIDs from 1292 to 1949. |

**Discussion:** *None.*

* **Short Beacon**
* **System information update procedure**

**Instructions to TGah Editor: *Change this subclause as follows:***

The S1G AP shall increase the value (modulo 256) of the Change Sequence field in the next transmitted Short Beacon frame(s) when a critical update occurs to any of the elements inside the Short Beacon frame. The following events shall classify as a critical update:

* Inclusion of a Channel Switch Announcement
* Inclusion of an Extended Channel Switch Announcement
* Modification of the EDCA parameters
* Modification of the S1G Operation element

An S1G AP may classify other changes in the Short Beacon frame as critical updates as described in 10.2.2.17 (TIM Broadcast).

The S1G STA shall attempt to either receive the next Short Beacon frame or transmit a Probe Request frame when it receives a Change Sequence field that contains a value that is different from the previously received Change Sequence field. When an S1G STA transmits a Probe Request frame to obtain the updated system information, it may include the Change Sequence field in the Probe Request frame to request a (#245)compressed Probe Response frame.

When an S1G AP receives a probe request frame with a Change Sequence from an S1G STA associated with the S1G AP, it compares the value of received Change Sequence with the value of its current Change Sequence. If the value of the received Change Sequence is not equal to the value of the current Change Sequence, the S1G AP should send a compressed Probe Response frame which is a Probe Response frame that includes the Change Sequence element and only the elements that need be updated by the STA. Otherwise, the AP shall send a Probe Response frame as defined in 10.1.4.3.3 (Sending a probe response).