IEEE P802.11  
Wireless LANs

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| **Comment Resolution for Subclause 8.3.4.1a** | | | | |
| **Date:** 2013-08-01 | | | | |
| **Author(s):** | | | | |
| **Name** | **Affiliation** | **Address** | **Phone** | **email** |
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Abstract

This document provides comment resolution for TGah Draft 0.1 Comment Collection 9 with these CIDs:

26, 151, 347, and 633.

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 “Instruction to 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** | **SC** | **Comment** | **Proposed Change** | **Resolution** |
| 26 | 40.41 | 8.3.1.4a | Presence of the optional elements in the short beacon is currently TBD in the draft. Include list of optional elements. | As in comment. | Revised –  TGah editor to make changes shown in 11-13-0973-00-00ah under the heading for CIDs 26, 151, 347, and 633. |
| 151 | 41.1 | 8.3.4.1a | optional elements can be present∩╝îas described in TBD | Please clarify the TBD field for short beacon format | Revised –  TGah editor to make changes shown in 11-13-0973-00-00ah under the heading for CIDs 26, 151, 347, and 633. |
| 347 | 41.1 | 8.3.4.1a | Missing a description of a procedure. | Describe the optional elements procedure. | Revised –  TGah editor to make changes shown in 11-13-0973-00-00ah under the heading for CIDs 26, 151, 347, and 633. |
| 633 | 41.1 | 8.3.4.1a | Regarding the sentence "Optional elements can be present, as described in TBD", want to point out the Relay and Relay discovery elements should be included for the Relay operation. | Add Relay and Relay discovery elements to the list of optional elements. | Revised –  TGah editor to make changes shown in 11-13-0973-00-00ah under the heading for CIDs 26, 151, 347, and 633. |

## Discussion: *Agree with the commenters. We specified that the Short beacon in general should not include a minimal number of optional elements in STBTT and any optional elements in TBTT.*

* **Short Beacon frame format**

**Instruction to Editor: Please make the following changes in clause 8.3.4.1a:**

Optional elements can be present, as described in 10.1.3.7a.1 (General).

* **General**

**Instruction to Editor: Please make the following changes in clause 10.1.3.7a.1:**

A S1G AP with do11ShortBeacon set to true shall schedule a Short Beacon frame at intervals given by the dot11ShortBeaconPeriod with the following exception: a Beacon may be scheduled instead of a Short Beacon in a Short Beacon Interval of a TSBTT that coincides with a TBTT. The Timestamp field of the Short Beacon is set to the 4 LSBs of the TSF timer at the time that the data symbol containing the first bit of the timestamp is transmitted. Note that an AP that has do11ShortBeacon set to true may use the procedures of clause 10.1.3.2 when transmitting a Short Beacon.

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| A Short Beacon frame scheduled at TSBTT that is not a TBTT may include the elements shown in Table 8-24a (Short Beacon Optional elements). A Short Beacon scheduled at TBTT may include all the elements shown in Table 8-24 (Beacon Frame Body) plus the Short Beacon compatibility element and the Short Beacon Interval element. An STA can reconstruct the 8 octet TSF at the AP by concatenating the 4 octet TSF completion field in the Short Beacon compatibility element with the Timestamp field in the Short Beacon.**Table 8-24a -- Short Beacon Optional elements** | | |
| **Order** | **Information** | **Notes** |
| TBD | Traffic indication  map (TIM) | The TIM element is optionally present in Short Beacon frames. |
| TBD | FMS Descriptor | The FMS Descriptor element is present if  dot11FMSActivated is true. |
| TBD | RPS | The RPS element is optionally present if dot11RAWOptionActivated is true. |
| TBD | Subchannel Selective Transmission | The Subchannel Selective Transmission element is optionally present if dot11SubchannelSelectiveTransmissionActivated is true. |
| TBD | AP Power Management | The AP Power Management element is optionally present in Short Beacon frames. |
| TBD | Relay | The Relay element is optionally present if dot11RelayCapable is true. |

* **Beacon frame format**

***Modify Table 8-24 in Clause 8.3.3.2 by inserting the following rows :***

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| * **Beacon frame body** | | |
| **Order** | **Information** | **Notes** |
| TBD | RPS | The RPS element is present in Beacon frames generated by APs for medium access of a group of STAs.  This element is present if dot11RAWOptionActivated is true. |
| TBD | Segment Count | The Segment Count element is used for indication of TIM and page segments served in DTIM intervals.  This element is present if dot11TIMSegmentSupported is true. |
| TBD | Sector Operation | The AP provides via this element the information related to the sector duration and sector periodicity or Sector Training when dot11S1GSectorizationActivated is true and dot11S1GSectorizationBeaconElement is true. |
| TBD | Subchannel Selective Transmission | The Subchannel Selective Transmission element is optionally present if dot11SubchannelSelectiveTransmissionActivated is true. |
| TBD | Authentication Control | The Authentication Control element is present when dot11S1GAuthenticationControlActivated is true. |
| TBD | TSF Timer Accuracy | The TSF Timer Accuracy element is optionally present when the dot11TSFTimerAccuracyImpemented is true. |
| TBD | Relay | The Relay element is optionally present if dot11RelayCapable is true. |
| TBD | Change Sequence | The Change Sequence is optionally present if dot11ShortBeaconOptionImplemented is true. |
| TBD | S1G Capabilities | S1G Capabilities element is optionally present if dot11S1GOptionImplemented is true. |
| TBD | Relay Discovery | The Relay Discovery element is optionally present if dot11RelayCapable is true. |
| TBD | Short Beacon Interval | Short Beacon Interval is optionally present if dot11ShortBeaconOptionImplemented is true. |