IEEE P802.11  
Wireless LANs

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| LB 200 cluase 10.14 and 10.45 comment resolution | | | | |
| Date: 2014-03-03 | | | | |
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Abstract

This submission proposes comment resolutions of the clause 10.14 and 10.45 from TGah Draft 1.0.

* CIDs: 1289, 1987, 1290, 1291, 2775, 1548

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** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1289 | 225 | 10.14 | " So, for maintaining its valid SA status, the S1G STA shall wake" - grammar, terminology | "So, to maintain a valid SA, the .." | Accepted-  Agree with the comment. |
| 1987 | 225 | 10.14 | The language of the paragraph shall be improved. | Proposed change:  When an S1G STA in power-saving mode wakes up with an interval longer than dot11AssociationSAQueryMaximumTimeout, an SA may be destroyed. To keep an SA in valid status, an S1G STA should wake up and listen to SA Query Request frame with an interval specified by dot11AssociationSA-QueryMaximumTimeout. If dot11RSNAProtectedManagementFrames-Activated is true, an S1G AP shall provides the Timeout Interval (Association Comeback time, which is set to dot11AssociationSA-QueryMaximumTimeout) in Association Response frame and Reassociation Response frame with a status code 0 to the S1G STA. | Revised-  Agree in principle.  TGah editor to make changes shown in 11-14-0231r3 under the heading for CID 1987, 1289 |
| 1290 | 226 | 10.45 | "When a STA has buffered frames for a peer non-AP STA, it may want to belong to the group of AIDs having the same TIM interval with the peer non-AP STA" -- what is the intended normative effect of this statement. Surely "is is allowed to want" is not what was meant. | Reword so that this has a defined effect on normative behavior, or reword as a NOTE--. | Revised-  Agree in principle.  TGah editor to make changes shown in 11-14-0231r3 under the heading for CID 1290 |
| 1291 | 227 | 10.45 | "Also, AP can change the group of STA" - grammar | "Also, AP can change the group of a STA" | Accepted-  Agree with the comment. |
| 2775 | 227 | 10.45 | change to "When a STA dot11DynamicAIDActivated set to true switches TIM mode and non-TIM mode, the STA's AID may be also changed." | as commented | Accepted-  AID of TIM mode and non-TIM mode may be diffident.  Agree with the comment. |
| 1548 | 227 | 10.45 | What happens if STA has QoS requirements that are not satisfied by thenew wakeup interval enforced by the AP | as in the comment | Revised-  If a STA does not want to change its wakeup interval in a unsolicited manner by the AP, it can declare that it does not support such capability (Unsolicited Dynamic AID field).  TGah editor to make changes shown in 11-14-0231r3 under the heading for CID 1548 |

**Propose:**

Revised for CID 1987, 1289, 1290, 1291, 2775, 1548, per discussion and editing instructions in 11-14/0231r3.

***TGah editor: Modify the sub-clause 10.14 as the following:***

* SA Query procedures

When ~~If~~ an S1G STA in a power save mode wakes up with an interval longer than dot11AssociationSAQueryMaximumTimeout, an existing SA can be destroyed. So, to maintain a ~~for maintaining its~~ valid SA status, the S1G STA shall wake to listen to SA Query Request frame with the interval specified by ~~of~~ dot11AssociationSAQueryMaximumTimeout. When dot11RSNAProtectedManagementFramesActivated is true, ~~For this purpose,~~ an S1G AP shall provides the Timeout Interval (Association Comeback time, which is set to dot11AssociationSAQueryMaximumTimeout) in an Association Response frame and Reassociation Response frame with a status code 0 to the S1G STA.

***TGah editor: Modify the sub-clause 10.45 as the following:***

* Dynamic AID assignment operation

Implementation of Dynamic AID assignment is optional for a STA. A STA that has a value of true for dot11DynamicAIDActivated is defined as a STA that supports Dynamic AID assignment. A STA for which dot11DynamicAIDActivated is true shall set the Dynamic AID field of the S1G Capabilities Info field in the S1G Capabilities element to 1.

When a traffic pattern or a remaining battery life is changed, a STA may change its wakeup interval. If a wakeup interval of a STA is changed, an AID of the STA should be updated to belong to AID segment of the new wakeup interval. When dot11DynamicAIDActivated is true, a STA requesting a new wakeup interval transmits an AID Switch Request frame containing an AID Request element with B0 of an AID Request Mode field set 1 and an AID Request Interval field set to a requested new wakeup interval to an AP. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated set to true (#76, 92) responds with an AID Switch Response frame containing an AID Response element with an AID/Multicast ID field set to a new AID and an AID Response Interval field set to a new wakeup interval. ~~When a STA has buffered frames for a peer non-AP STA, it may want to belong to the group of AIDs having the same TIM interval with the peer non-AP STA.~~

When a STA has buffered frames for a peer non-AP STA, it may want to belong to the group of AIDs having the same wakeup interval with a peer non-AP STA. When dot11DynamicAIDActivated is true, a STA requesting the same TIM interval with a peer non-AP STA transmits an AID Switch Request frame containing an AID Request element with B1 of an AID Request Mode field set 1 and a Peer STA Address field set to a MAC address of a peer non-AP STA to an AP. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated set to true (#76, 92) responds with an AID Switch Response frame containing an AID Response element with an AID/Multicast ID field set to a new AID and an AID Response Interval field set to the same wakeup interval with the peer non-AP STA.

~~When dot11DynamicAIDActivated is true, a STA requesting a new wakeup interval transmits an AID Switch Request frame to an AP. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated set to true(#76, 92) responds with an AID Switch Response frame to the STA.~~

Also, AP can change the group of a STA for load/traffic distribution of each group. For this or other unspecified purpose, an AP with dot11UnsolictedDynamicAIDActivated set to true can transmit an unsolicited AID Switch Response frame containing an AID Response element with an AID/Multicast ID field set to a new AID and an AID Response Interval field set to a new wakeup interval to STA that has the Unsolicited Dynamic AID bit equal to 1 in its S1G Capabilities element(#76, 92). A STA for which dot11UnsolicitedDynamicAIDActivated is true shall set the Unsolicited Dynamic AID field of the S1G Capabilities Info field in the S1G Capabilities element to 1.

When a STA with dot11DynamicAIDActivated set to true switches TIM mode and non-TIM mode, the STA’s AID may be ~~is~~ also changed. The STA transmits AID Switch Request frame to an AP to inform the switch between TIM and non-TIM mode. After receiving AID Switch Request frame, the AP with dot11DynamicAIDActivated set to true shall transmit an AID Switch Response frame to the STA.

***TGah editor: Insert the following row in Table 8-191d—Subfields of the S1G Capabilities Info field:***

|  |  |  |
| --- | --- | --- |
| Unsolicited Dynamic AID | The STA sets the Unsolicited Dynamic AID field to 1 when dot11UnsolicitedDynamicAIDActivated is true, and sets it to 0 otherwise. See 10.45 (Dynamic AID assignment operation). | Set to 1 if dot11UnsolicitedDynamicAIDActivated is true.  Set to 0 otherwise. |

***TGah editor: Insert the Unsolicited Dynamic AID bit (1 bit) in Figure 8-401dg—S1G Capabilities Info field:***