IEEE P802.11  
Wireless LANs

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| LB 205 MAC Comment Resolution for Clauses 8.4.2.170d, 8.4.2.170e, and 10.44a | | | | |
| Date: 2015-01-09 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Jae Seung Lee | ETRI | 161 Gajeong-dong,  Yuseong-gu, Daejeon, Korea | +82 42 860 1326 | [jasonlee@etri.re.kr](mailto:jasonlee@etri.re.kr) |
| Jaewoo Park | ETRI | 161 Gajeong-dong,  Yuseong-gu, Daejeon, Korea | +82 42 860 5635 | parkjw@etri.re.kr |
| Yu Ro Lee | ETRI | 161 Gajeong-dong,  Yuseong-gu, Daejeon, Korea | +82 42 860 5693 | yurolee@etri.re.kr |
| Jeeyon Choi | ETRI | 161 Gajeong-dong,  Yuseong-gu, Daejeon, Korea | +82 42 860 5247 | jychoi@etri.re.kr |
| Il Gyu Kim | ETRI | 161 Gajeong-dong,  Yuseong-gu, Daejeon, Korea | +82 42 860 5490 | igkim@etri.re.kr |

Abstract

This submission proposes comment resolutions for Clauses 8.4.2.170d, 8.4.2.170e, and 10.44a.

* CIDs: 5014, 5015, 5253, 5254, 5016, 5017,5255, 5256, 5342, 5343 (10 CIDs)

Changes in the text refer to: Draft P802.11ah/D3.1

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.***

**CID 5014, 5015, and 5253**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 5014 | 8.4.2.170d | 138 | 37 | When dot11ShortBeaconInterval is equal to true, the unit of AID Request Interval field is not clear, is it Beacon Interval or should it be Short Beacon Interval? | If we follow the example of DTIM Period, the unit should be Short Beacon Interval when dot11ShortBeaconInterval is equal to true and Beacon Interval otherwise. Please clarify. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |
| 5015 | 8.4.2.170d | 138 | 42 | When dot11ShortBeaconInterval is equal to true, the unit of AID Request Interval field is not clear, is it Beacon Interval or should it be Short Beacon Interval? | If we follow the example of DTIM Period, the unit should be Short Beacon Interval when dot11ShortBeaconInterval is equal to true and Beacon Interval otherwise. Please clarify. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |
| 5253 | 8.4.2.170d | 138 | 36 | The AID Request Interval indicates well defined parameters: listen interval for both TIM and non-TIM STAs, and multicast listen interval for use in multicast AID procedure (independently of the setting of the non-TIM and TIM mode | Replace paragraphs from P138L36 to P138L56 with the following:  "The AID Request Interval field indicates to the AP:  - The listen interval, in units of beacon interval, during which the TIM STA wakes to receive S1G Beacon frames when the Non-TIM Mode Switch field is equal to 0, TIM Mode Switch is equal to 1. and the Group Address Present field is equal to 0  - The listen interval, in units of beacon interval, during which the non-TIM STA is required to transmit at least one PS-Poll or trigger frame to the AP when the Non-TIM Mode Switch field is equal to 1, TIM Mode Switch field is equal to 0, and the Group Address Present field is equal to 0.  - The multicast listen interval, in units of DTIM interval, during which the non-AP STA wakes to receive the DTIM Beacon frames that signal the presence of group addressed BUs for the group MAC address contained in the Group Address field. In this case the Group Address Present field is equal to 1 and the TIM Mode Switch field and non-TIM Mode switch field are equal to any value.  The AID Request Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and its format is defined in Figure 8-68a(Bit encoding). The AID Request Interval field is calculated as the value of the Value subfield multiplied by the the value of the Scaling Factor that corresponds to the indicated USF value." | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |

**Proposed Remedy on CIDs 5014, 5015, and 5253:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 8.4.2.190 of D3.1 as follows:***

..…

~~The AID Request Interval field indicates to the AP how often the TIM STA wakes to receive S1G Beacon frames in units of beacon intervals, when the Non-TIM Mode Switch field is equal to 0, TIM Mode Switch field is equal to 1, and the Group Address Present field is equal to 0.~~

~~The AID Request Interval field indicates to the AP the Listen Interval during which the non-TIM STA is required to transmit at least one frame that is individually addressed to the associated AP in units of beacon intervals when the Non-TIM Mode Switch field is equal to 1, TIM Mode Switch is equal to 0, and the Group Address Present field is equal to 0.~~

~~The AID Request Interval field indicates to the AP how often the non-AP STA listens to the DTIM Beacon for group addressed BUs with Group Address Present field equal to 1 in units of DTIM intervals when the Non-TIM Mode Switch field is equal to 0, TIM Mode Switch field is equal to 1, the Group Address Present field is equal to 1.~~

~~The AID Request Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and a value, as defined in Figure 8-68a (Bit encoding). The AID Request Interval field is calculated as the value multiplied by the value of Scaling Factor corresponding to the indicated USF value.~~

The AID Request Interval field indicates to the AP:

- The listen interval as defiend in 8.4.1.6 (Listen Intervl field), in units of (short) beacon interval, during which the TIM STA wakes to receive S1G Beacon frames when the Non-TIM Mode Switch field is equal to 0, TIM Mode Switch is equal to 1, and the Group Address Present field is equal to 0.

- The listen interval as defiend in 8.4.1.6 (Listen Intervl field), in units of (short) beacon interval, during which the non-TIM STA is required to transmit at least one PS-Poll or trigger frame to the AP when the Non-TIM Mode Switch field is equal to 1, TIM Mode Switch field is equal to 0, and the Group Address Present field is equal to 0.

- The multicast listen interval, in units of (short) beacon interval, during which the non-AP STA wakes to receive the S1G Beacon frames that signal the presence of group addressed BUs for the group MAC address contained in the Group Address field. In this case the Group Address Present field is equal to 1 and the TIM Mode Switch field and non-TIM Mode switch field are equal to any value.

The AID Request Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and its format is defined in Figure 8-68a (Bit encoding). The AID Request Interval field is calculated as the value of the Value subfield multiplied by the the value of the Scaling Factor that corresponds to the indicated USF value.

**CID 5254**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 5254 | 8.4.2.170d | 139 | 14 | This sentence repeats some of the content of the sentence above the figure. | Remove the first sentence of this paragraph and insert "so that the AP can assign a particular AID to the STA based on its service type." to the first sentence in P139L1. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |

**Proposed Remedy on CID 5254:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 8.4.2.190 of D3.1 as follows:***

..…

The Service Type field indicates the service type ~~of~~ provided by the non-AP STA so that the AP can assign a particular AID to the STA based on the service type when the STA associates or requests AID switch. The format of the Service Type field is shown in Figure 8-575a13 (Service Type field format).

..…

~~A non-AP STA sets a bit from B0-B2 to 1 to indicate to the AP the service type that it provides so that the AP can assign a particular AID to the STA based on the service type when the STA associates or requests AID switch~~. The Sensor subfield of the Service Type field is set to 1 to indicate that the non-AP STA provides a sensor or a meter type services. Otherwise, it is set to 0. The Offload subfield of the Service Type field is set to 1 to indicate that the non-AP STA provides a traffic offloading services. Otherwise, it is set to 0. The Critical Service subfield of the Service Type field is set to 1 to indicate that it provides critical services such as health care, home, industrial, alarm monitoring or emergency services. Otherwise, it is set to 0.

**CID 5255**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 5255 | 8.4.2.170e | 139 | 48 | Similar observations (as AID Request element) for this element as well. The following need to be clear: The AID/Multicast AID field has the format of the AID field (8.4.1.8) and contains an AID if the eliciting AID Request element did | Replace parapgraphs from P139L48 to P139L58 with the following:  "The AID/Multicast AID field, which has the same format as the AID field described in 8.4.1.8 (AID field), indicates:  - The AID that is assigned to the non-AP STA if the AID Response element is not sent as a response to an AID Switch Request frame that contained a Group Address field. If the AP does not change the AID of the STA, this field indicates the current AID assigned to the non-AP STA.  - The multicast AID that is assigned to a group MAC address if the AID Response element is sent as a response to an AID Switch Request frame that contained a Group Address field carrying the group MAC address.  The AID Switch Count field indicates a countdown value, in units of (short) beacon interval, that the AP sets for the non-AP STA to switch to the new AID or to activate the multicast AID. The AID Switch Count field is set to 0 in an AID Response element that is carried in a (Re) Association Response frame." | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |

**Proposed Remedy on CID 5255:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 8.4.2.191 of D3.1 as follows:***

..…

~~The AID/Multicast AID field is set to a new AID or a multicast AID that corresponds to the group MAC address carried in the AID Switch Request frame, assigned to the non-AP STA depending on whether there is a group MAC address in the AID Switch Request frame. If AP does not change the AID of the STA, the AID field is set to the current AID assigned to the non-AP STA.~~

~~The AID Switch Count field is carried in the AID Switch Response frame and set to the number of Beacon intervals until the non-AP STA switches to the new AID by the AP. The value is a countdown that the AP sets to the STA to update its AID to the new value which is received from the AP. The AID Switch Count field is set to 0 when the AID Response element is carried in the (Re)Association Response frame.~~

The AID/Multicast AID field, which has the same format as the AID field described in 8.4.1.8 (AID field), indicates:

- The AID that is assigned to the non-AP STA if the AID Response element is not sent as a response to an AID Switch Request frame that contained a Group Address field. If the AP does not change the AID of the STA, this field indicates the current AID assigned to the non-AP STA.

- The multicast AID that is assigned to a group MAC address if the AID Response element is sent as a response to an AID Switch Request frame that contained a Group Address field carrying the group MAC address.

The AID Switch Count field indicates a countdown value, in units of (short) beacon interval, that the AP sets for the non-AP STA to switch to the new AID or to activate the multicast AID. It indicates the duration after which the (multicast) listen interval starts and the counter that corresponds to the AID Switch Count field starts upon transmission of the AID Response element. The AID Switch Count field is set to 0 in an AID Response element that is carried in a (Re) Association Response frame.

**CID 5016, 5017, and 5256**

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Proposed**  **Resolution** |
| 5016 | 8.4.2.170e | 139 | 60 | When dot11ShortBeaconInterval is equal to true, the unit of AID Response Interval field is not clear, is it Beacon Interval or should it be Short Beacon Interval? | If we follow the example of DTIM Period, the unit should be Short Beacon Interval when dot11ShortBeaconInterval is equal to true and Beacon Interval otherwise. Please clarify. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |
| 5017 | 8.4.2.170e | 140 | 5 | When dot11ShortBeaconInterval is equal to true, the unit of AID Response Interval field is not clear, is it Beacon Interval or should it be Short Beacon Interval? | If we follow the example of DTIM Period, the unit should be Short Beacon Interval when dot11ShortBeaconInterval is equal to true and Beacon Interval otherwise. Please clarify. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |
| 5256 | 8.4.2.170e | 139 | 54 | The AID Response Interval indicates well defined parameters: listen interval for both TIM and non-TIM STAs, and multicast listen interval for use in multicast AID procedure (independently of the setting of the non-TIM and TIM mode fields). Also the text can be organized better. With these considerations in mind please see the suggested changes. | Replace the paragraphs from P139L60 to P140L12 with the following:  "The AID Response Interval field indicates to the non-AP STA:  - The listen interval, in units of beacon interval, during which the TIM STA wakes to receive S1G Beacon frames. The S1G Beacon frames that the TIM STA wakes up to listen either include a TIM element that can include their new AID or include a Page Slice element that indicates the assignment of the new AID in the corresponding page slices.  - The listen interval, in units of beacon interval, during which the non-TIM STA is required to transmit at least one PS-Poll or trigger frame to the AP.  - The multicast listen interval, in units of DTIM interval, during which the non-AP STA is required to wake up for receiving the DTIM Beacon frames that signal the presence of group addressed BUs for the group MAC address contained in the Group Address field of the eliciting AID Switch Request frame.  The (multicast) listen interval will start from the first T(S)BTT that follows the expiration of the aid switch counter obtained from the AID Switch Count field of this element.  The AID Response Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and its format is defined in Figure 8-68a(Bit encoding). The AID Response Interval field is calculated as the value of the Value subfield multiplied by the the value of the Scaling Factor that corresponds to the indicated USF value." | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0138. |

**Proposed Remedy on 5016, 5017, and 5256:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 8.4.2.191 of D3.1 as follows:***

..…

~~When the AID Response element is transmitted to a TIM STA, the AID Response Interval field indicates the Listen Interval of the TIM STA for listening to S1G Beacon frames in units of beacon intervals. The S1G Beacon frames that the TIM STA listens either have a Page of new AID or have a Page Slice element indicating the assignment of new AID in the corresponding page slices. The AID Response Interval starts from the TBTT that the new AID or a multicast AID is used.~~

~~When the AID Response element is transmitted to a Non-TIM STA, the AID Response Interval field indicates the Listen Interval in units of beacon intervals, during which a Non-TIM STA is required to transmit at least one frame that is individually addressed to the associated AP.~~

~~The AID Response Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and a value as defined in Figure 8-68a (Bit encoding). The AID Response Interval is calculated as the value multiplied by the value of Scaling Factor corresponding to the indicated USF value.~~

The AID Response Interval field indicates to the non-AP STA:

- The listen interval as defiend in 8.4.1.6 (Listen Intervl field), in units of (short) beacon interval, during which the TIM STA wakes to receive S1G Beacon frames. The S1G Beacon frames that the TIM STA wakes up to listen either include a TIM element that can include their new AID or include a Page Slice element that indicates the assignment of the new AID in the corresponding page slices.

- The listen interval as defiend in 8.4.1.6 (Listen Intervl field), in units of (short) beacon interval, during which the non-TIM STA is required to transmit at least one PS-Poll or trigger frame to the AP.

- The multicast listen interval, in units of (short) beacon interval, during which the non-AP STA is required to wake up for receiving the S1G Beacon frames that signal the presence of group addressed BUs for the group MAC address contained in the Group Address field of the eliciting AID Switch Request frame. The (multicast) listen interval will start from the first T(S)BTT that follows the expiration of the AID switch counter obtained from the AID Switch Count field of this element.

The AID Response Interval field contains a USF (see Table 8-51a (Unified scaling factor)) and its format is defined in Figure 8-68a (Bit encoding). The AID Response Interval field is calculated as the value of the Value subfield multiplied by the the value of the Scaling Factor that corresponds to the indicated USF value.

**CID 5342 and 5343**

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| 5342 | 10.44a | 354 | 43 | This subclause needs a thorough review to eliminate the overuse of articles such as "a", "an", and the underuse of articles such as "the". In addition it seems there is no logical connection between certain paragraphs and the description of the negotiation components should be inline with the description oft he AID Request/Response elements included in the AID Switch frames. Also note that Page slicing is not required for this procedure. | Please review the subclause and look for missing/redundant/innappropriate articles and replace them with the appropriate article. Also find a classifier for the STA that supports Dynamic AID assignment and use it throughout the subclause e.g., D-AID STA.  Please ensure there is logical consistency between paragraphs.  - Clarify that page slicing is only refered to when the sta supports it. | Revised –  Agree with the commenter in general.  TGah Editor to make changes shown in 15/0xxx. |
| 5343 | 10.44a | 354 | 51 | The text relative to setting the values of the AID Response element in the Association response is missing. I also wonder why would you need to include the AID Request in the association request. | Insert the following paragraph: " An S1G STA that transmits an AID Response element in (Re-)Association Response frames shall set:  - The AID/Multicast AID field to the AID assigned to the (re)-associating STA  - The AID Switch Count field to 0  - The AID Response interval to the value of the ListenInterval"  Clarify (if it is required in the assoc requests) the values of the AID Request element. If not needed (which seems is the case) indicate that it is not included. | Revised –  Agree with the commenter in principle.  TGah Editor to make changes shown in 15/0xxx. |

**Proposed Remedy on 5342 and 5343:**

***Instructions to TGah Editor: Modify the following sentence in Subclause 10.46 of D3.1 as follows:***

10.46 Dynamic AID assignment operation

An S1G(#5404) STA may support Dynamic AID assignment. A STA that has a value of true for dot11DynamicAIDActivated is defined as a D-AID STA ~~STA that supports Dynamic AID assignment~~. A D-AID STA ~~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. Otherwise it shall set the Dynamic AID field to 0.

A D-AID STA ~~with dot11DynamicAIDActivated equal to true~~ may transmit ID Switch Request or AID Switch Response frames to a D-AID STA ~~that supports dynamic AID assignment~~. A STA shall not transmit an AID Switch Request frame or AID Switch Response frame to a STA from which it has received an S1G Capabilities element with the Dynamic AID field equal to 0.

When ~~a~~the traffic pattern or the service type or ~~a~~the remaining battery life of a D-AID STA is changed, ~~a~~the D-AID STA may change its Listen Interval. If ~~a~~the Listen Interval of ~~a~~the STA is changed, ~~an~~the AID of the STA should be updated ~~to~~ so that the STA belong to the STA group consisting of the STAs having the same Listen Interval. ~~Page Slice of the new Listen Interval.~~ ~~When dot11DynamicAIDActivated is true, a~~ A D-AID STA requesting a new Listen Interval may transmit an AID Switch Request frame containing an AID Request element with the AID Request Interval Present subfield of an AID Request Mode field equal to 1 and ~~an~~ the AID Request Interval field equal to ~~a~~ the requested new Listen Interval to ~~an~~ the AP. The Service Type field may be included in the AID Request element with the Service Type Present subfield of the AID Request Mode field equal to 1 to inform the AP of the service type of the STA if it has been changed. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated equal to true shall respond with an AID Switch Response frame containing an AID Response element with ~~an~~ the AID/Multicast AID field equal to a new AID and ~~an~~ the AID Response Interval field equal to a new Listen Interval. The AP may assign a particular AID to the D-AID STA taking into account the received service type information from the STA if it is included in the AID Switch Request frame.

~~When a D-AID STA has buffered frames for a peer non-AP STA, it may request to belong to the group of AIDs having the same Listen Interval with a the peer non-AP STA. When dot11DynamicAIDActivated is true, a A D-AID STA requesting the same Listen Interval with a the peer non-AP STA may transmit an AID Switch Request frame containing an AID Request element with the Peer STA Address Present subfield of an AID Request Mode field equal to 1 and a the Peer STA Address field equal to a the MAC address of a the peer non-AP STA to an the AP. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated equal to true shall respond with an AID Switch Response frame containing an AID Response element with an the AID/Multicast AID field equal to a new AID and an the AID Response Interval field equal to the same Listen Interval with the peer non-AP STA.~~

~~Also, an AP can change the group of a STA for load/traffic distribution of each group. For this or other unspecified purpose, an AP with dot11UnsolicitedDynamicAIDActivated equal to true may transmit an unsolicited AID Switch Response frame containing an AID Response element with an the AID/Multicast AID field equal to a new AID and an the AID Response Interval field equal to a new Listen Interval to the STA that has the Unsolicited Dynamic AID bit equal to 1 in its S1G Capabilities element. A The 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.~~

~~An S1G STA that switches from TIM mode to non-TIM mode and wants to update its listen interval may request a listen interval change by sending to its AP a frame that includes an AID Request element (see 8.4.2.190 (AID Request element)) that contains a listen interval value in the AID Request Interval field. Upon successful reception of such frame, the AP may respond to the STA with a frame that includes an AID Response element (see 8.4.2.191 (AID Response element)) that contains a new value for the listen interval in the AID Response Interval field. The STA shall update its listen interval to the value indicated in the response.~~

An illustration of the dynamic AID assignment is shown in Figure 10-53 (Illustration of dynamic AID assignment).

*……….*

A D-AID STA may switch between ~~a~~ TIM mode and ~~a~~ non-TIM mode during operation.

The mode switching is initiated by a non-AP D-AID STA. When the D-AID STA switches from TIM mode to non-TIM mode, the STA should inform the AP of its switching through the AID Switch Request frame with the Non-TIM Mode Switch subfield of the AID Request element set to 1 and the TIM Mode Switch subfield set to 0, the STA otherwise should inform the AP of its switching through the AID Switch Request frame with the TIM Mode Switch subfield of AID Request element equal to 1 and the Non-TIM Mode Switch subfield set to 0 when the STA switches from non-TIM mode to TIM mode. A D-AID STA that switches between TIM mode and non-TIM mode which also wants to update its listen interval may request a listen interval change by including a listen interval value in the AID Request Interval field in the AID Request element. The Service Type field may be included in the AID Request element if the service type has been changed.

Upon receiving AID Switch Request frame with the Non-TIM Mode Switch subfield or TIM Mode Switch subfield of AID Request element equal to 1, the AP may reassign a new AID to the STA. ~~through AID Switch Response frame.~~ The new AID is transmitted to the D-AID STA by includ~~ed~~ing it in the AID Response element of the AID Switch Response frame. The AP may reassign a new value for the listen interval and include it in the AID Response Interval field of the AID Response element. The STA shall update its listen interval to the value indicated in the AID Response.

If the AID included in the AID Response element of the AID Switch Response frame is not the same as the STA's current AID, the STA shall use the AID included in the AID Response element as its new AID. The non-AP STA shall switch to the new AID after the duration specified by the AID Switch Count field in the received AID Response element.

An AP can change the group of a STA for load/traffic distribution of each group. For this or other unspecified purpose, an AP with dot11UnsolicitedDynamicAIDActivated equal to true may transmit an unsolicited AID Switch Response frame containing an AID Response element with ~~an~~ the AID/Multicast AID field equal to a new AID and ~~an~~ the AID Response Interval field equal to a new Listen Interval to the STA that has the Unsolicited Dynamic AID bit equal to 1 in its S1G Capabilities element. ~~A~~ The 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 D-AID STA has buffered frames for a peer non-AP STA, it may request to belong to the group of AIDs having the same Listen Interval with ~~a~~ the peer non-AP STA. ~~When dot11DynamicAIDActivated is true, a~~ A D-AID STA requesting the same Listen Interval with ~~a~~ the peer non-AP STA may transmit an AID Switch Request frame containing an AID Request element with the Peer STA Address Present subfield of an AID Request Mode field equal to 1 and ~~a~~ the Peer STA Address field equal to ~~a~~ the MAC address of ~~a~~ the peer non-AP STA to ~~an~~ the AP. After receiving the AID Switch Request frame, the AP with dot11DynamicAIDActivated equal to true shall respond with an AID Switch Response frame containing an AID Response element with ~~an~~ the AID/Multicast AID field equal to a new AID and ~~an~~ the AID Response Interval field equal to the same Listen Interval with the peer non-AP STA.

When the AID of a non-AP D-AID STA has changed and that STA has direct connections with other peer STAs (e.g., TDLS/DLS), the AP shall transmit a STA Information Announcement frame (see 8.6.25.5 (STA Information Announcement frame format)) that contains the updated AID of the non-AP STA to each peer STA. A D-AID STA with direct connections with non-AP D-AID STAs that receives a STA Information Announcement frame shall update the AIDs of these STAs with the information contained in the received frame.

If a non-AP STA with direct connections receives a STA Information Announcement frame including an AID Announcement element from a peer STA, the non-AP STA updates the peer STA's AID to the received AID and sends the Ack frame after SIFS.

An S1G STA may indicate to the AP its service type information by including the Service Type field in the AID Request element in (Re-) Association Request frames as described in 10.3.5.11 (Service type indication during association).

An S1G STA that transmits an AID Response element in (Re-) Association Response frames shall set the AID/Multicast AID field to the AID assigned to the (re)-associating STA, the AID Switch Count field to 0, and the AID Response Interval field to the value of the Listen Interval.