IEEE P802.11
Wireless LANs

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| Resolution for CIDs in clause 9 (TGbn D0.1 cc) |
| Date: July 01, 2025 |
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 Abstract

This submission proposes resolutions for following CIDs received for TGbn D0.1 CC:

3848, 3849, 3851, 3852, 3853, 3859, 144

**Revisions:**

* Rev 0: Initial version of the document.
* Rev 1: Revised based on feedback from Mark R, Xiaofei and Bo Cao.
* Minor updates based on comments received when the doc was discussed on 3/31 TGbn MAC call.
	+ CID 3849 is deferred for further (offline) discussion.
* Rev 3: Alfred’s comment. Also deferred 3851.
* Rev 4: Resolves CID 3851

***TGbn editor: Baseline for this document is 802.11-2024, TGbe D7.0 and 11bn D0.3***

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 TGbn Draft. This introduction is not part of the adopted material.

***TGbn Editor: Editing instructions preceded by “TGbn Editor” are instructions to the TGbn editor to modify existing material in the TGbn draft. As a result of adopting the changes, the TGbn editor will execute the instructions rather than copy them to the TGbn Draft.***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **CID** | **Commenter** | **Clause** | **Page.line** | **Comment** | **Proposed Change** | **Resolution** |
| 3849 | Abhishek Patil | 9.4.2.3 | 58.11 | Add an entry to Table 9-131 (BSS Membership selector value encoding) in Clause 9.4.2.3 | As in comment | **Revised**Agree with the comment. The proposed resolution updates Table 9-131 to include a row for UHR.**TGbn editor, please incorporate changes tagged with 3849 in this document.** |
| 3852 | Abhishek Patil | 9.4.2.35 | 58.11 | Add a subfield to BSSID Information field of Neighbor Report element (9.4.2.35) to indicate that a reported AP is a UHR AP. | As in comment | **Revised**Agree with the comment. The proposed resolution adds a subfield to BSS Information field of Neighbor Report element to indicate that a reported AP is a UHR AP.**TGbn editor, please incorporate changes tagged with 3852 in <this document>.** |
| 144 | Jay Yang | 9.4.2.36 | 1068.11 | the UHR(ultra high reliability) subfield shall be included in Neighbor Report element (see 9.4.2.35) | the commenter will provide a solution on this. | **Revised**Agree with the comment. The proposed resolution adds a subfield to BSS Information field of Neighbor Report element to indicate that a reported AP is a UHR AP. Same resolution as CID 3852**TGbn editor, please incorporate changes tagged with 3852 in <this document>.** |
| 3848 | Abhishek Patil | 9.4.2.35 | 58.11 | Add a subfield to BSSID Information field of Neighbor Report element (9.4.2.35) to indicate that a reported AP belongs to the same SMD as the reporting AP. | As in comment | **Revised**Agree with the comment. The proposed resolution adds a subfield to BSS Information field of Neighbor Report element to indicate that a reported AP belongs to the same SMD.**TGbn editor, please incorporate changes tagged with 3848 in <this document>.** |
| 3851 | Abhishek Patil | 9.4.2.169 | 58.11 | Provide a mechanism to indicate if a reported (non-collocated) AP belongs to the same SMD or not. Every field added to RNR leads to multiplicative overheads (since it is repeated for each reported AP). Therefore, in the interest of keeping the RNR overhead low, utilize an existing reserved bit field (such as B7 of BSS Parameters field) in the TBTT Information field (Type = 0) of Reduced Neighbor Report element (9.4.2.169) to indicate whether a reported AP belongs to the same SMD as the reporting AP. | As in comment | **Revised**Agree in principle with the comment. A reporting AP must identify the SMD of a reported AP. However, adding new fields to the RNR results in a multiplicative increase in the Beacon frame size. TGbn is exploring mechanisms to minimize the impact on Beacon size. In this context, the proposed resolution introduces methods to eliminate the need for an explicit SMD ID field when the SMD ID can be inferred from existing fields within the TBTT Information field of the reported AP.**TGbn editor, please incorporate changes tagged with 3851 in <this document>.** |
| 3853 | Abhishek Patil | 9.4.2.176 | 58.11 | Add an entry for UHR in to Table 9-337 (PHY Support Criterion subfield) in 9.4.2.176 (FILS Request Parameters element). | As in comment | **Revised**Agree with the comment. The proposed resolution updates Table 9-337 to include a row for UHR.**TGbn editor, please incorporate changes tagged with 3853 in <this document>.** |
| 3859 | Abhishek Patil | 9.6.7.36 | 63.25 | Make appropriate updates to FILS Discovery frame (e.g., add UHR to tables 9-492, 9-494, and 9-495). | As in comment | **Revised**Agree with the comment. The proposed resolution updates cited tables in FILS Discovery frame format to include content for a UHR AP.**TGbn editor, please incorporate changes tagged with 3859 in <this document>.** |

**9.4.2.3 Supported Rates and BSS Membership Selectors element**

***TGbn editor: Please insert the following entry (only the last row) to Table 9-131 (BSS membership selector value encoding) (not all lines shown):***

**Table 9-131—BSS membership selector value encoding**[#3849]

|  |  |  |
| --- | --- | --- |
| **Value** | **Feature** | **Interpretation** |
| <Last assigned – 1> | UHR PHY | Support for the mandatory features of Clause 38 (Ultra High Reliability (UHR) PHY specification) is required in order to join the BSS that was the source of the Supported Rates and BSS Membership Selectors element or Extended Supported Rates and BSS Membership Selectors element containing this value. |

* + - 1. **Neighbor Report element**

 ***TGbn editor: Please change Figure 9-416 (BSSID Information field format) as follows:***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| B0 B1 | B2 | B3 | B4 B9 | B10 | B11 | B12 | B13 | B14 |
| APReachability | Security | Key Scope | Capabilities | Mobility Domain | High Throughput | Very High Throughput | FTM | High Efficiency |
| 2 | 1 | 1 | 6 | 1 | 1 | 1 | 1 | 1 |

Bits:

 B15 B16 B17 B18 B19 B20 B21 B22 <ANA> <ANA> <ANA> B31

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ER BSS | Colocated AP | Unsolicited Probe Responses Active | Members Of ESS With2.4/5 GHzColocated AP | OCTSupported With Reporting AP | Colocated With 6 GHz AP | Extremely High Throughput | DMG Positioning | Same SMD [#3848] | Ultra High Reliability [#3852] | Reserved |

Bits: 1 1 1 1 1 1 1 1 1 1 7

**Figure 9-416—BSSID Information field format**

***TGbn editor: please insert the following paragraphs before the paragraph “The Operating Class and Channel Number fields...”***

[3848]The Same SMD subfield is set to 1 to indicate that the AP represented by this BSSID (reported AP) belongs to the same SMD as the reporting AP. Otherwise, the Same SMD subfield is set to 0.

[3852]The Ultra High Reliability subfield is set to 1 to indicate that the AP represented by this BSSID (reported AP) is a UHR AP. Otherwise, the Ultra High Reliability subfield is set to 0.

**9.4.2.176 FILS Request Parameters element**

***TGbn editor: please insert a new row to Table 9-337 (PHY Support Criterion subfield) (not all lines shown) and change the value of the reserved row as follows:***

**Table 9-337—PHY Support Criterion subfield**[#3853]

|  |  |
| --- | --- |
| **Value** | **Explanation** |
| 5 | Indicates that a responding FILS STA is UHR capable. |
| 6–7 | Reserved |

**9.6.7.36 FILS Discovery frame format**[#3859]

***TGbn editor: please change Table 9-492 (BSS Operating Channel Width) as follows:***

**Table 9-492—BSS Operating Channel Width**

|  |  |  |  |
| --- | --- | --- | --- |
| **BSS Operating Channel Width field** | **HR/DSSS, OFDM, ERP, HT, VHT, or HE BSS****operating channel width** | **EHT or UHR BSS operating channel width** | **TVHT BSS operating channel width** |
| 0 | 20 MHz or 22 MHz | 20 MHz or 22 MHz | TVHT\_W |
| 1 | 40 MHz | 40 MHz | TVHT\_W+W |
| 2 | 80 MHz | 80 MHz | TVHT\_2W |
| 3 | 160 MHz or 80+80 MHz | 160 MHz | TVHT\_4W or TVHT\_2W+2W |
| 4 | Reserved | 320 MHz | Reserved |
| ~~4~~5–7 | Reserved | Reserved | Reserved |

## *TGbn editor: please insert a new row to Table 9-494 (PHY Index subfield) (not all lines shown) as follows:*

**Table 9-494—PHY Index subfield**

|  |  |
| --- | --- |
| **PHY Index subfield** | **PHY** |
| 6 | UHR (see Clause 38 (Ultra high Reliability (UHR) PHY specification)) |
| 7 | Reserved |

## *TGbn editor: please insert the following column in Table 9-495 (FILS Minimum Rate):*

**Table 9-495—FILS Minimum Rate**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **FILS****Minimum Rate subfield** | **PHY Index subfield is 0 (HR/DSSS)** | **PHY Index subfield is 1 (ERP-OFDM)** | **PHY Index subfield is 2 (HT)** | **PHY Index subfield is 3 (VHT or TVHT)** | **PHY Index subfield is 4 (HE)** |  **PHY Index subfield is 5 (EHT)** |  **PHY Index subfield is 6 (UHR)** |
| 0 | 1 Mb/s | 6 Mb/s | HT-MCS 0 | VHT-MCS 0 | HE-MCS 0 | EHT-MCS 0 | UHR-MCS 0 |
| 1 | 2 Mb/s | 9 Mb/s | HT-MCS 1 | VHT-MCS 1 | HE-MCS 1 | EHT-MCS 1 | UHR-MCS 1 |
| 2 | 5.5 Mb/s | 12 Mb/s | HT-MCS 2 | VHT-MCS 2 | HE-MCS 2 | EHT-MCS 2 | UHR-MCS 2 |
| 3 | 11 Mb/s | 18 Mb/s | HT-MCS 3 | VHT-MCS 3 | HE-MCS 3 | EHT-MCS 3 | UHR-MCS 3 |
| 4 | Reserved | 24 Mb/s | HT-MCS 4 | VHT-MCS 4 | HE-MCS 4 | EHT-MCS 4 | UHR-MCS 4 |
| 5–7 | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved | Reserved |

------------x-x-x Start of changes for CID 3851 x-x-x-------------

**Discussion**:

**Beacon frame Optimization and SMD ID Signaling in RNR**

Over time, the Beacon frame has grown significantly in size, leading to increased medium occupancy and various operational challenges in the field. TGbn aims to minimize its footprint within the Beacon frame. In particular, any extension to the Reduced Neighbor Report (RNR) element results in a linear increase in Beacon frame length, as each additional field is replicated per reported BSS. This multiplicative effect can substantially impact airtime efficiency, especially in dense deployments.

This contribution provides mechanisms that minimizes extensions to the RNR element for providing SMD information by leveraging the following properties:

1. **Reported AP is Collocated with the Reporting AP**

(a) Per TGbe, the AP MLD ID field for a partner link of the reporting AP is set to 0.
 → TGbn can apply the same rule for the SMD ID in such cases and eliminate the need for an explicit field to carry the SMD ID for the case when a reported AP is affiliated with the same MLD as the reporting AP.

(b) TGbe specifies that the AP MLD ID field for a partner link of an AP corresponding to a nontransmitted BSSID (nonTxBSSID) is equal to its BSSID Index.
 → TGbn can adopt the same rule for the SMD ID and eliminate the need for an explicit field to carry SMD ID for the case when the reported AP is affiliated with the AP MLD of a nonTxBSSID in the same multiple BSSID set as the reporting AP.

(c) Based on (a) and (b), the SMD ID for any collocated AP can be inferred from the AP MLD ID field in the MLD Parameters field of the TBTT Information field.
 → This eliminates the need for an explicit SMD ID field for collocated APs.

1. **Reported AP is not Collocated with the Reporting AP**

(a) If the reported AP belongs to the same SMD as the reporting AP:
 - The SMD ID is 0, while the AP MLD ID is nonzero.
Proposal: Use the Same SSID bit to identify that the reported AP shares the SMD ID (i.e., 0). Need a bit to identify that the reported AP belongs to an SMD

This is expected to be the most common case (i.e., a reported non-collocated AP being in the same SMD as a single-BSS AP or the txBSSID). This approach avoids the need for a 1-octet field to carry the SMD ID in this scenario.
Note: all APs belonging to the same SMD are members of the same ESS and hence advertise the same SSID.

(b) If the reported AP belongs to the same SMD as a nonTxBSSID in the same multiple BSSID set:
 - The SMD ID equals the BSSID Index of the nonTxBSSID.
 - The AP MLD ID is set to a value > 2^n - 1.
 - No efficient (e.g., 1-bit) encoding is feasible.
Proposal: Need a bit to identify that the reported AP belongs to an SMD. Define a 1-octet field to carry the SMD ID for such cases.

(c) If the reported AP does not belong to the same SMD as:
 - The reporting AP, or
 - Any nonTxBSSID in the same multiple BSSID set (if applicable),
 Proposal: Define a 1-octet field to explicitly signal the SMD ID. Need a bit to identify that the reported AP belongs to an SMD

1. **Strengthen the rules to advertise TBTT Information field of different lengths for Same Operating Class and Channel**

Updated Clause 11.49 to mandate that a UHR AP includes multiple TBTT Information fields of varying sizes when necessary to efficiently advertise information for reported APs operating on the same Operating Class and Channel.

**Proposed changes**:

* **Neighbor AP Information field**

***TGbn editor: please update Figure 9-734 as shown below:***

The format of the BSS Parameters subfield is defined in Figure 9-735 (BSS Parameters subfield format).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  B0 |  B1 |  B2 |  B3 |  B4 |  B5 |  B6 |  B7 |
|  | OCT Recommended | Same SSID | Multiple BSSID | Transmitted BSSID | Member Of ESS With 2.4/5 GHz Colocated AP | Unsolicited Probe Responses Active | Colocated AP | Member Of SMD  |
| Bits:  |  1 |  1 |  1 |  1 |  1 |  1 |  1 |  1 |
| **Figure 9-735 – BSS Parameters subfield format** |

***TGbn editor: please insert the following paragraphs after “NOTE 3—For example, suppose the reported AP transmits …”***

The Member Of SMD subfield is set to 1 when the reported AP belongs to an SMD. Otherwise, the Member Of SMD subfield is set to 0 if the reported AP does not belong to an SMD or if the reporting AP does not have that information.

***TGbn editor: please update Table 9-328 as shown below:***

**Table 9-328—TBTT Information field contents if the TBTT Information Field Type subfield is equal to 0**

|  |  |
| --- | --- |
| **TBTT Information Length subfield value** | **TBTT Information field contents** |
| 16 | The Neighbor AP TBTT Offset subfield, the BSSID subfield, the Short-SSID subfield, the BSS Parameters subfield, the 20 MHz PSD subfield and the MLD Parameters subfield |
| 17 | The Neighbor AP TBTT Offset subfield, the BSSID subfield, the Short-SSID subfield, the BSS Parameters subfield, the 20 MHz PSD subfield, the MLD Parameters subfield and the UHR Parameters subfield |
| 18–255 | The first 17 octets of the field contain the Neighbor AP TBTT Offset subfield, the BSSID subfield, the Short-SSID subfield the BSS Parameters subfield, the 20 MHz PSD subfield, the MLD Parameters subfield and the UHR Parameters subfield (i.e., same contents as when the length of the TBTT Information field is 17). The remaining octets are reserved. |

***TGbn editor: please update Figure 9-733 as shown below:***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Neighbor AP TBTT Offset | BSSID(optional) | Short SSID (optional) | BSS parameters | 20 MHz PSD | MLD Parameters | UHR Parameters |
| Octets: | 1 | 0 or 6 | 0 or 4 | 0 or 1 | 0 or 1 | 0 or 3 | 0 or 1 |

**Figure 9-733—TBTT Information field format**

***TGbn editor: please add the following paragraph after the paragraph starting “The Disabled Link Indication subfield …”***

The UHR Parameters subfield is present and carries the SMD ID of the reported AP when the following conditions are met:

* The Member Of SMD subfield in the BSS Parameters field is set to 1,
* Both the Collocated AP and Same SSID subfields in the BSS Parameters field are set to 0,
* The reported AP does not belong to the same SMD as the reporting AP.

Otherwise, the UHR Parameters subfield is not present.

***TGbn editor: please add the following paragraphs, figure and table at the end of this subclause as shown below:***

The format of the SMD ID field is as shown in Figure 9-734d (SMD ID field format).

|  |  |
| --- | --- |
|  | SMD ID |
| Octet: | 1 |
| **Figure 9-734d – SMD ID field format** |

**11.49 Reduced neighbor report**

***TGbn editor: please update the following paragraph in this subclause as shown below:***

An AP that reports in a Reduced Neighbor Report element multiple APs operating on the same operating class/channel, among which at least one AP is affiliated with an AP MLD and at least one AP is not affiliated with an AP MLD should, if it is a non-UHR AP and shall, if it is a UHR AP, include two Neighbor AP Information fields for the same operating class/ channel, one for the set of APs that are affiliated with an AP MLD (for which the MLD Parameters subfield and UHR Parameters subfield (if present) is included in the TBTT Information field of a reported AP) and one for the set of APs that are not affiliated with an AP MLD (for which the MLD Parameters subfield or UHR Parameters subfield (if present) is not included in the TBTT Information field of a reported AP).

3UHR

***TGbn editor: please add the following table at the end of this subclause as shown below:***

Table 11-33a (Determining SMD ID of a reported AP in a Reduced Neighbor Report element) shows the different scenarios and corresponding the mechanism to determine the SMD ID for a reported UHR AP for which the Member Of SMD subfield is set to 1 in its TBTT Information field.

**Table -11-33a – Determining SMD ID of a reported AP in a Reduced Neighbor Report element**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Reported AP is:** | **Collocated AP subfield** | **Same SSID subfield** | **SMD ID present in UHR Parameters field** | **Remarks** |
| An AP affiliated with the AP MLD of the reporting AP | 1 | 1 | No | SMD ID is 0 (same as the value carried in the AP MLD ID field) |
| An AP affiliated with the AP MLD of an AP corresponding to a nontransmitted BSSID | 1 | 0 | No | SMD ID is BSSID index (same as the value carried in the AP MLD ID field) |
| An AP affiliated with the AP MLD of another AP in the same collocated BSSID set | 1 | 0 | No | SMD ID is greater than 0 (same as the value carried in the AP MLD ID field) |
| A non-collocated AP in the same SMD as the reporting AP | 0 | 1 | No | SMD ID is 0; UHR Parameters field is absent. |
| A non-collocated AP in a different SMD but having the same SSID as the reporting AP | 0 | 1 | Yes | SMD ID is greater than 2^n – 1; UHR Parameters field is present. |
| A non-collocated AP in the same SMD as an AP corresponding to a nontransmitted BSSID | 0 | 0 | Yes | SMD ID is BSSID index of the nontransmitted BSSID; UHR Parameters field is present. |
| A non-collocated AP outside the reporting AP’s or nontransmitted BSSID’s SMD | 0 | 0 | Yes | SMD ID is greater than 2^n – 1; UHR Parameters field is present. |

* **SMD BSS transition discovery procedure**

***TGbn editor: please update the following subclause as shown below:***

A non-AP MLD can use mechanisms such as active scanning (see 11.1.4.3.2 (Active scanning procedure for a non-DMG STA) and 35.3.4.2 (Use of multi-link probe request and response)), the BSS transition management framework (see 11.21.7 (BSS transition management) and 35.3.23 (BSS transition management for MLDs)) or the neighbor report framework (see 11.10.10 (Usage of the neighbor report)) for discovery of the neighboring AP MLDs and SMD BSS transition support by those AP MLDs.

NOTE 1— A neighboring AP MLD might or might not be part of the same SMD.

An SMD Information element provides an SMD identifier and SMD capabilities for an SMD. An AP MLD that is managed by an SMD shall include the SMD Information element in the Probe Response frames. The SMD Information element is provided as part of the Neighbor Report element in the BSS Transition Management Request frame and Neighbor Report Response frames for a reported AP that is part of a different SMD than the reporting AP.

A mechanism is defined to retrieve probe response content for neighboring AP MLD(s) of the current AP MLD, through the current AP MLD.

***TGbn editor: please add the following paragraphs at the end of this subclause as shown below:***

All APs that belong to the same SMD are members of the same ESS and are connected to the same DS. All APs that belong to the same SMD shall advertise the same SSID.

The following applies for APs that are reported in a Reduced Neighbor Report element:

* A reporting AP shall set the Member Of SMD subfield to 1 in the BSS Parameters field of the TBTT Information field corresponding to a reported AP in the Reduced Neighbor Report element if the reported AP belongs to an SMD.
* The SMD ID of a collocated AP that belongs to an SMD is the same as the AP MLD ID:
	+ The SMD ID is zero if the reported AP and the reporting AP are AP affiliated with the same AP MLD.
	+ The SMD ID is the BSSID index of the nontransmitted BSSID if the reported AP is affiliated with the same AP MLD as an AP corresponding to the nontransmitted BSSID in the same multiple BSSID set as the reporting AP.
	+ The SMD ID is a value greater than 0 if the reported AP is an AP affiliated with the AP MLD of another AP in the same collocated BSSID set.
* The SMD ID of a non-collocated AP that belongs to the same SMD as the reporting AP is 0.
	+ In such cases, the Same SSID subfield is set to 1 and the UHR Parameters subfield is not present in the TBTT Information field corresponding to the reported AP
* A reporting AP, when reporting a non-collocated AP that belongs to an SMD that does not belong to the same SMD as the reporting AP, shall include the SMD ID of the reported AP in the UHR Parameters subfield of the TBTT Information field corresponding to a reported AP.
	+ The SMD ID is the same as the BSSID index if the reported AP is in the same SMD as an AP corresponding to a nontransmitted BSSID in the same multiple BSSID set as the reporting AP.

NOTE – When a reported non-collocated AP has the same SSID as the reporting AP and belongs to a different SMD, the SMD ID is carried in the UHR Parameters field of the TBTT Information field corresponding to a reported AP.

Table 11-33a summarizes the above rules. Annex AA.3 provides an example of an AP corresponding to the transmitted BSSID reporting collocated and non-collocated APs

**Annex AA**

**Multiple BSSID configuration examples**

***TGbn editor: please add the following new subsection after subclause AA.2***

**AA.3 Example illustrating the mechanism to determine SMD ID for a reported AP in a Reduced Neighbor Report element**

Figure AA-8 (Example of determining SMD ID of a reported AP in a Reduced Neighbor Report element) illustrates the mechanism to determine the SMD ID of a reported AP. In the example, AP-t operating on channel 2 is the transmitted BSSID in a multiple BSSID set consisting of one nontransmitted BSSID (AP-r). Set size is 2 (i.e., MaxBSSID Indicator (n) = 1). AP-t is affiliated with MLD E which also has AP-x and AP-a affiliated with it. MLD E belongs to SMD 1 which also has MLD F within its domain. MLD F has AP-q and AP-b affiliated with it. The AP-r (nontransmitted BSSID) is affiliated with AP MLD G which also has AP-y affiliated with it. MLD G belongs to SMD 2 which also has MLD H within its domain. MLD H has AP-c affiliated with it. In the example, we also have MLD L which is affiliated with SMD 3. MLD L has AP-m and AP-n affiliated with it.

When AP-t reports AP-x and AP-a in the Reduced Neighbor Report element that it transmits, the Collocated AP subfield in the corresponding BSS Parameter field will be set to 1 and the SMD ID of the two APs is the same as the value carried in the AP MLD ID field which will be 0 (the SMD ID field will not be included in the UHR Parameters field, if present).

When AP-t reports AP-q and AP-b in the Reduced Neighbor Report element that it transmits, the Collocated AP subfield and the Same SSID subfield in the corresponding BSS Parameter fields will be set to 0 and 1 respectively and the SMD ID of the two APs will be the same as the reporting AP (AP-t), which is 0 (the SMD ID field will not be included in the UHR Parameters field, if present).

When AP-t reports AP-y in the Reduced Neighbor Report element it transmits, the Collocated AP subfield in the corresponding BSS Parameter field will be set to 1 and the SMD ID of the AP is same as the value carried in the AP MLD ID field which will be the same as the BSSID index of AP-r (the SMD ID field will not be included in the UHR Parameters field, if present).

When AP-t reports AP-c in the Reduced Neighbor Report element it transmits, both the Collocated AP subfield and the Same SSID subfield in the corresponding BSS Parameter field will be set to 0 and the SMD ID of AP-c (which will be the same as the BSSID index of AP-r) will be carried in UHR Parameters field.

When AP-t reports AP-m and AP-n in the Reduced Neighbor Report element it transmits, both the Collocated AP subfield and the Same SSID subfield in the corresponding BSS Parameter field will be set to 0 and the SMD ID of APs will be carried in UHR Parameters field.



**Figure AA-8—Example of determining SMD ID of a reported AP in a Reduced Neighbor Report element**

------------x-x-x End of changes for CID 3851 x-x-x-------------