IEEE P802.11
Wireless LANs

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| CR for CID 7093 7094 |
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Abstract

This submission proposes the resolutions for CID 7093 and 7094. The baseline for the proposed resolutions is 802.11ba Draft 6.0.

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| **CID** | **Clause** | **Page** | **Line** | **Comment** | **Proposed Change** | **Resolution** |
| 7093 | 6.3.126.2.2 | 48 | 56 | Since MLME-WURDISCOVERY.request primitive is meant for STAs to discover suitable APs to associate with, in particular, in terms of better connections, it is more benefitial to include a parameter RSSI\_threshold for the STAs to return discovered APs above a certain RSSI threshold. | as in comment, add a parameter RSSI\_Threshold in the MLME-WURDISCOVERY.request primitive | Revised—A RSSI parameter is added to BSSDescriptionFromWD in the MLME-WURDISCOVERY.confirm primitive and will solve the technical issue pointed out by the comment. As the RSSI is a relative value, it is better to leave to the SME to make decisions regarding the selection of APs. No further changes are needed.Note to TGba editor: please incorporate the changes as shown in 11-20/756r4.  |
| 7094 | 6.3.126.3.2 | 50 | 28 | Since MLME-WURDISCOVERY.confirm primitive is meant for STAs to discover suitable APs to associate with, particularly because the current AP has a bad connection, it is more benefitial to report the RSSI value associated with a received WUR Discovery frame | as in comment, add a parameter RSSI associated with a received WUR Discovery frame in the MLME-WURDISCOVERY.confirm primitive | Revised—Agree in principle with the comment. A RSSI parameter is added to the BSSDescriptionFromWD in the MLME-WURDISCOVERY.confirm protocol. Note to TGba editor: please incorporate the changes as shown in 11-20/756r4.  |

**TGba Editor: *Modify the following the table starting at Page 50, Line 26 (Clause 6.3.126.3.2) in 802.11ba Draft 6.0***

Each BSSDescriptionFromWD consists of the parameters shown in the following table for a WUR AP discovered.

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| Name | Type | Valid range | Description |
| Transmitter ID | Integer | As defined in 29.5.3 (Transmitter ID) | The Transmitter ID of the WUR AP carried in the ID field of the WUR Discovery frame. |
| CompressedBSSID\_MSB | Integer | As defined in 9.10.3.3 (WUR Discovery frame format) | The 12 MSBs of the compressed BSSID of the WUR AP carried in the Type Dependent Control field of the WUR Discovery frame. |
| Compressed SSID | Integer | As defined in 9.10.3.3 (WUR Discovery frame format) | The 16 LSBs of the short SSID of the WUR AP. |
| Operating Channel | Operating class and channel information as defined in 9.4.1.22(Operating Class and Channel field) | As defined in 9.10.3.3 (WUR Discovery frame format) | Specifies the primary channel of the WUR AP. |
| RSSI | Integer | 0 to 255 as defined in Table 30-1—TXVECTOR and RXVECTOR parameters. | Specifies the RSSI from the discovered WUR AP.(#7093, #7094) |

**TGba Editor: *Modify 30.2.2 TXVECTOR and RXVECTOR parameters as follows:***

* TXVECTOR and RXVECTOR parameters

The parameters in Table 30-1 (TXVECTOR and RXVECTOR parameters) are defined as part of the TXVECTOR parameter list in the PHY-TXSTART.request primitive and/or as part of the RXVECTOR parameter list in the PHY-RXSTART.indication and PHY\_RXEND.indication primitives.

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| * TXVECTOR and RXVECTOR parameters
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| Parameter | Condition | Value | TXVECTOR | RXVECTOR |
| FORMAT |  | Determines the format of the PPDU.Enumerated type:* WUR\_BASIC indicates WUR Basic PPDU format in TXVECTOR.
* WUR\_FDMA indicates WUR FDMA PPDU format in TXVECTOR.
* WUR indicates WUR PPDU format in RXVECTOR.
 | Y | Y |
| L\_LENGTH | FORMAT is WUR\_BASIC | Indicates the value used to set the LENGTH field in L-SIG. NOTE—The length field of the L-SIG in WUR Basic PPDU is defined in Equation (30-16) using the TXTIME value defined by Equation (30-13).  | Y | N |
| FORMAT is WUR\_FDMA | Indicates the value used to set the LENGTH field in L-SIG. NOTE—The length field of the L-SIG in WUR FDMA PPDU is defined in Equation (30-16) using the TXTIME value defined by Equation (30-17).  |
| L\_DATARATE | FORMAT is WUR\_BASIC or WUR\_FDMA | Indicates the value used to set the RATE field in L-SIG. NOTE—The rate field in the L-SIG field in WUR Basic PPDU and WUR FDMA PPDU is set to value representing 6Mb/s in the 20 MHz channel spacing column of Table 17-6 (Contents of the Signal field). | Y | N |
| CH\_ BANDWIDTH | FORMAT is WUR\_BASIC or WUR\_FDMA | Indicates whether the PPDU is transmitted using 20 MHz or 40 MHz or 80 MHz channel width. Enumerated type: * WUR\_CBW\_20 for 20 MHz.
* WUR\_CBW\_40 for 40 MHz.
* WUR\_CBW\_80 for 80 MHz.
* WUR\_CBW\_PUNC80-PRI for subchannel puncturing in 80 MHz, where in the preamble the secondary 20 MHz is punctured.
* WUR\_CBW\_PUNC80-SEC for subchannel puncturing in 80 MHz, where in the preamble one of the two 20 MHz subchannels in secondary 40 MHz is punctured.
* WUR\_CBW\_PUNC80-PRI-SEC-1 for subchannel puncturing in 80 MHz, where in the preamble the secondary 20 MHz and the lower 20 MHz subchannel in secondary 40 MHz is punctured.
* WUR\_CBW\_PUNC80-PRI-SEC-2 for subchannel puncturing in 80 MHz, where in the preamble the secondary 20 MHz and the higher 20 MHz subchannel in secondary 40 MHz is punctured.
 | Y | N |
| WUR\_DATARATE | FORMAT is WUR\_BASIC or WUR\_FDMA | Determines the transmission rate of the WUR Basic PPDU and WUR FDMA PPDU.Enumerated type:* WUR\_LDR indicates the data rate 62.5 kb/s.
* WUR\_HDR indicates the data rate 250 kb/s.
 | MU | Y |
| PSDU\_LENGTH | FORMAT is WUR\_BASIC or WUR\_FDMA | Indicates the number of octets in the WUR frame in the range of 0 to a MPDUMaxLength octets.  | MU | N |
| RSSI | FORMAT is WUR\_BASIC or WUR\_FDMA | The allowed values for the RSSI parameter are in the range 0 to 255 inclusive.(#7093, #7094) This parameter is a measure by the PHY of the power observed at the antennas used to receive the current WUR PPDU. RSSI shall be measured during the reception of the WUR-Sync. RSSI is intended to be used in a relative manner, and it is a monotonically increasing function of the received power.  | N | Y |
| WUR\_ CH\_OFFSET | FORMAT is WUR\_BASIC orWUR\_FDMA | Determines the WUR channel.(#7109) Enumerated type:* 0 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in the WUR primary channel.
* 1 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in first higher frequency 20 MHz channel relative to the WUR primary channel.
* 2 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in first lower frequency 20 MHz channel relative to the WUR primary channel.
* 3 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in second higher frequency 20 MHz channel relative to the WUR primary channel.
* 4 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in second lower frequency 20 MHz channel relative to the WUR primary channel.
* 5 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in third higher frequency 20 MHz channel relative to the WUR primary channel.
* 6 indicates the WUR Short Wake-up frame or the WUR Wake-up frame or the WUR Vendor Specific frame is to be transmitted in third lower frequency 20 MHz channel relative to the WUR primary channel.
 | MU | N |
| NOTE 1—In the “TXVECTOR” column, the following apply:* “Y” means that the parameter is present.
* “N” means that the parameter is not present.
* “MU” means that the parameter is present for WUR Basic PPDU and is present per user for WUR FDMA PPDU.

NOTE 2—In the “RXVECTOR” column, the following apply:* “Y” means that the parameter is present for WUR Basic PPDU.
* “N” means that the parameter is not present.
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