IEEE P802.11
Wireless LANs

|  |
| --- |
| LB286 Comment Resolution Section 11 |
| Date: 2024-05-06 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Christian Berger | NXP | 350 Holger Way, San Jose, CA |  | christian.berger@nxp.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes to address the following CID 94, 95, 26, 27, 98, 29, 30, 50, 51, 52, and 53 changes are relative to Draft P802.11be\_D5.1, Draft P802.11REVme\_D5.0, and Draft P802.11bk D2.0.

Revisions:

1. Add document link to resolution boxes, add one more case to #53

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

***Editing instructions formatted like this are intended to be copied into the TGbk Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

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

**The text preceded by “Discussion” is not part of the adopted changes.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| **94** | 41.01 | 11.21.6.4.3.3 | "The Number of Spatial Streams in each SS Allocation subfield shall not exceed the assigned value for the sounding bandwidth; i.e., if the sounding bandwidth is less than or equal to 80 MHz, the RSTA assigned I2R STS <= 80 MHz, if the sounding bandwidth is 160 MHz, the 160 MHz RSTA assigned I2R STS, and if the sounding bandwidth 7 is 320 MHz, the 320 MHz RSTA assigned I2R NSS. " -- why is it STS for <320M and SS for 320M? | Change "NSS" at the end to "STS" | **Rejected**The reason for the mix of STS and SS is that for bandwidths less than 320 MHz the PHY format is HE, which has the concept of STS. While for 320 MHz the PHY format is EHT, where the STS concept was removed.  |
| **95** | 43.02 | 11.21.6.4.3.3 | "When a TXOP includes both a TB ranging measurement exchange soliciting an EHT (TB) Ranging NDP and a TB ranging measurement exchange soliciting an HE (TB) Ranging NDP" -- the parenthetical (TB)s are not clear. Can it be any combination of one of { EHT Ranging NDP and EHT TB Ranging NDP } and one of { HE Ranging NDP and HE TB Ranging NDP }? | Clarify | **Revised** |
| **26** | 46.41 | 11.21.6.4.3.4 | "If the bandwidth selected in the measurement sounding phase is equal to 320 MHz" - use sounding bandwidth | change to "If the sounding bandwidth selected in the measurement sounding phase is equal to 320 MHz" | **Accepted** |
| **27** | 47.10 | 11.21.6.4.3.4 | "If the bandwidth selected in the measurement sounding phase is equal to 320 MHz" - use sounding bandwidth | Change to "If the sounding bandwidth selected in the measurement sounding phase is equal to 320 MHz" | **Accepted** |
| **98** | 49.08 | 11.21.6.4.4.2 | "I2R NDP and R2I NDP, are either HE Ranging NDPs or EHT Ranging NDPs" is not clear -- do both NDPs have to be of the same PHY or not? | Clarify | **Revised**TGbk editor, make the changes identified in document<https://mentor.ieee.org/802.11/dcn/24/11-24-0785-00-00bk-lb286-comment-resolution-section-11.docx> |
| **29** | 50.17 | 11.21.6.4.4.2 | "In the Non-TB ranging measurement exchange sequence, the ISTA shall transmit the Ranging NDP Announcement frame with the same bandwidth as the I2R NDP to reserve the medium." - looks like we are missing a statement that says that NDPs for bandwidth < 320 MHz shall be HE Ranging NDPs? | Add at the end of the paragraph : "If the I2R NDP is transmitted with a 320 MHz bandwidth, the format shall be an EHT Ranging NDP; if the bandwidth is less than 320 MHz it shall be an HE Ranging NDP." | **Accept** |
| **30** | 50.25 | 11.21.6.4.4.2 | "The RSTA shall transmit the R2I NDP with the same bandwidth as the Ranging NDP Announcement frame, while the LMR frame may be transmitted at a different bandwidth, according to the rules of multiple frame transmission in an EDCA TXOP" - add a sentence specifying that R2I NDP for BW < 320 MHz shall be an HE Ranging NDP | Change to "The RSTA shall transmit the R2I NDP with the same bandwidth and format as the I2R NDP, while the LMR frame may be transmitted at a different bandwidth, according to the rules of multiple frame transmission in an EDCA TXOP" | **Accepted** |
| **50** | 61.30 | 11.21.6.4.5.2 | Change "I2R HE/EHT TB Ranging NDP" to | I2R HE TB Ranging NDP or I2R EHT Ranging NDP | **Revised**TGbk editor, change to “I2R HE TB Ranging NDP or EHT TB Ranging NDP” |
| **51** | 69.09 | 11.21.6.4.5.5 | Should "keyseed" in the figures 11-65 be changed to "key seed" since the phrase matter in the derivation? Figure 11-66 has the space | As per comment |  |
| **52** | 73.12 | 11.21.6.4.6 | Change "TXVECTOR parameter CH\_BANDWIDTH" to | TXVECTOR parameter CH\_BANDWIDTH or CH\_BANDWIDTH\_IN\_NON\_HT accordingly | **Revised**TGbk editor, make the changes identified in document<https://mentor.ieee.org/802.11/dcn/24/11-24-0785-00-00bk-lb286-comment-resolution-section-11.docx> |
| **53** | 74.1 | 11.21.6.4.6 | Replace the two paragraphs in L1-8 of P74 with L21-38 of P75 as the behavior seem to have been opposite. The behavior described in L21-38 is for RSTA and not ISTA | As per comment | **Revised**TGbk editor, make the changes identified in document<https://mentor.ieee.org/802.11/dcn/24/11-24-0785-00-00bk-lb286-comment-resolution-section-11.docx> |
|  |  |  |  |  |  |

1. **11.21.6.4.3.3 Measurement Sounding phase of TB ranging**
2. ***TGbk Editor: Change text on page 43 Clause 11.21.6.4.3.3 Measurement Sounding phase of TB ranging (starting at line 2) as follows:***

When a TXOP includes both a TB ranging measurement exchange soliciting ~~both~~ an EHT (TB) Ranging NDP and a TB ranging measurement exchange soliciting (#**1126**, #**1272**) an HE (TB) Ranging NDP ~~in a same TXOP~~, the RSTA shall:

* (#**1080**)Begin with a TB ranging measurement exchange(s) that solicit(s) EHT TB Ranging NDP or EHT ~~(TB)~~ Ranging NDP, that use(s) non-HT duplicate PPDU for the Ranging Trigger frames, and that set(s) the More TF subfield to 1 in the Ranging Trigger frames.(#**1273**)
* Perform measurement exchange(s) that solicit(s) an HE TB Ranging NDP or an HE Ranging NDP ~~A~~after all the TB ranging measurement exchanges that solicit EHT ~~(~~TB~~)~~ Ranging NDP are completed. (#**1155**)~~, then perform the TB ranging measurement exchange that solicits HE (TB) Ranging NDPs~~.(#**1273**)
1. **11.21.6.4.4.2 Measurement sounding phase of non-TB ranging**
2. ***TGbk Editor: Change text on page 49 Clause 11.21.6.4.4.2 Measurement sounding phase of non-TB ranging (starting at line 8) as follows:***
3. An ISTA shall initiate a non-TB ranging measurement instance by transmitting a Ranging NDP Announcement frame addressed to the RSTA, followed by an I2R NDP SIFS after. In response to the correctly received Ranging NDP Announcement frame addressed to itself, the RSTA shall transmit an R2I NDP; see Figure [11-55](#F11o55) (Non-TB ranging measurement exchange sequence). I2R NDP and R2I NDP, (#98) ~~refer to~~are both either HE Ranging NDPs ~~respectively~~or EHT Ranging NDPs when dot11NGVOptionImplemented is equal to false and are both NGV Ranging NDPs when dot11NGVOptionImplemented is equal to true. ~~and HE ranging NDPs otherwise.~~ (#**1050**, #**1279**) The measurement-reporting phase consists of an LMR frame, which is a Location Measurement Report as defined in [[9.6.7.49](#H09o6o7o49)](#H09o6o7o48) (Location Measurement Report (LMR) frame format).
4. ***TGbk Editor: Change text on page 50 Clause 11.21.6.4.4.2 Measurement sounding phase of non-TB ranging (starting at line 17) as follows:***
5. In the Non-TB ranging measurement exchange sequence, the ISTA shall transmit the Ranging NDP Announcement frame with the same bandwidth as the I2R NDP to reserve the medium. The Ranging NDP Announcement frame shall be unicast with the RA field set to the address of the RSTA, and contain one STA Info field with the AID11 subfield set to 0. If negotiated, the NPD Announcement frame shall contain another STA Info field with AID11 subfield set to 2045, and the I2R Tx Power subfield shall be set to indicate the TX power of the following I2R NDP. If the STA Info field with AID11 subfield set to 2045 is included, the ISTA shall set the R2I NDP Target RSSI subfield to either its preferred receive signal power or a reserved value. (#29) If the I2R NDP is transmitted with a 320 MHz bandwidth, the format shall be an EHT Ranging NDP; if the bandwidth is less than 320 MHz it shall be an HE Ranging NDP.
6. (#30) The RSTA shall transmit the R2I NDP with the same bandwidth and format as the ~~Ranging~~ I2R NDP ~~Announcement frame~~, while the LMR frame may be transmitted at a different bandwidth, according to the rules of multiple frame transmission in an EDCA TXOP, see 10.23.2.8 (Multiple frame transmission in an EDCA TXOP). The allowed bandwidths for the Ranging NDP Announcements, I2R NDP and R2I NDP, shall be less than or equal the RSTA ~~A~~assigned ~~Mm~~ax Bandwidth.
7. ***TGbk Editor: Change text on page 71 Clause 11.21.6.4.6 Transmission of a Ranging NDP (starting at line 17) as follows:***

**11.21.6.4.6 Transmission of a Ranging NDP**

An RSTA transmitting an HE Ranging NDP or EHT Ranging NDP to one or more peer ISTAs shall set the TXVECTOR parameter as follows:

* The FORMAT parameter is set to:
	+ Is set toEHT\_MU, if the CH\_BANDWIDTH is equal to 320 MHz
	+ Is set to HE\_SU, otherwise
* The RANGING\_FLAG is present
* The UPLINK\_FLAG parameter is set to 0
* The APEP\_LENGTH parameter is set to 0
* The SECURE\_LTF\_FLAG is set as follows:
	+ Is set to 0 in the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)) and non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)).
	+ Is set to 1 in the TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)) and the non-TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)).
* The TX\_WINDOW\_FLAG is set to 1 if the SECURE\_LTF\_FLAG is set to 1 and the RSTA and ISTA have negotiated to use the optional frequency domain Tx window for R2I NPDs; it is set to 0 otherwise.
* In the TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)), the NUM\_USERS parameter is set to the number of ISTAs that the HE Ranging NDP or EHT Ranging NDP is transmitted to.
* In the Non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)), the TXPWR\_LEVEL\_INDEX parameter is set to a value that matches the Tx Power value indicated in the R2I NDP Tx Power field in the following LMR frame, except if the value in the R2I NDP Tx Power field was set to a reserved value.
* If the FORMAT parameter is equal to HE\_SU, ~~T~~the DOPPLER parameter is set to 0.
* The NUM\_STS parameter is set as follows:
	+ In the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)), set to the same value as the R2I NSTS subfield in the STA Info field in the preceding Ranging NDP Announcement frame plus 1.
	+ In the TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)).
		- The NUM\_STS[*p*] is set to the same value as the R2I NSTS subfield in the STA Info field addressed to the corresponding STA *p* in the preceding Ranging NDP Announcement frame plus 1 when the HE Ranging NDP or EHT Ranging NDP is transmitted to more than one ISTA.
		- The NUM\_STS is set to the same value as the R2I NSTS subfield in the STA Info field with AID11 subfield equal or less than 2007 in the preceding Ranging NDP Announcement frame plus 1, when the HE Ranging NDP or EHT Ranging NDP is transmitted to one ISTA.
	+ In the Non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)) and the non-TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)), set to the same value as the R2I NSTS subfield in the STA Info field with AID11 subfield equal or less than 2007 in the preceding Ranging NDP Announcement frame plus 1.
* The LTF\_REP parameter is set as follows:
	+ In the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)), set to the same value as the R2I Rep subfield in the STA Info field in the preceding Ranging NDP Announcement frame plus 1.
	+ In the TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)):
		- The LTF\_REP[*p*] is set to the same value as the R2I Rep subfield in the STA Info field addressed to the corresponding STA *p* in the preceding Ranging NDP Announcement frame plus 1 when the HE Ranging NDP or EHT Ranging NDP is transmitted to more than one ISTA.
		- The LTF\_REP is set to the same value as the R2I Rep subfield in the STA Info field with AID11 subfield equal or less than 2007 in the preceding Ranging NDP Announcement frame plus 1 when the HE Ranging NDP or EHT Ranging NDP is transmitted to one ISTA.
	+ In the non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)) and the non-TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)), set to the same value as the R2I Rep subfield in the STA Info field with AID11 subfield less than or equal to 2007 in the preceding Ranging NDP Announcement frame plus 1.
* The CH\_BANDWIDTH parameter is set as follows:
	+ (#52) In the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)), and TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)), set to the sounding bandwidth.~~same value as the TXVECTOR parameter CH\_BANDWIDTH in the preceding Ranging Sounding Trigger frame~~
	+ In the non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)) and non-TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)), set to the same value as the RXVECTOR ~~TXVECTOR~~ parameter CH\_BANDWIDTH in the preceding ~~Ranging~~R2I NDP ~~Announcement frame~~.
* If the FORMAT parameter is equal to EHT\_MU, the INACTIVE\_SUBCHANNELS parameter is set to the Puncturing Pattern field in the 320 MHz Ranging subelement of the IFTM frame.
* In [11.21.6.4.5](#H11o21o6o4o5) (Secure ~~HE-~~LTF TB and non-TB ranging measurement exchange protocol~~In the TB and non-TB ranging measurement exchange with secure HE-LTF (~~[~~11.21.6.4.5~~](#H11o21o6o4o5)), the LTF\_KEY parameter is set as defined in [11.21.6.4.5.2](#H11o21o6o4o5o2) (TB ranging measurement exchange with secure ~~HE-~~LTF) and [11.21.6.4.5.3](#H11o21o6o4o5o3) (Non-TB ranging measurement exchange with secure ~~HE-~~LTF). Otherwise, the LTF\_KEY parameter is not present.
* In the TB ranging measurement exchange with secure ~~HE-~~LTF, the LTF\_OFFSET parameter is set as defined in [11.21.6.4.5.2](#H11o21o6o4o5o2) (TB ranging measurement exchange with secure ~~HE-~~LTF). Otherwise, the LTF\_OFFSET parameter is not present.
* If the FORMAT parameter is equal to HE\_SU, ~~T~~the HE\_LTF\_TYPE parameter is set to 2xHE-LTF.
* If the FORMAT parameter is equal to EHT\_MU, ~~T~~the EHT\_LTF\_TYPE parameter is set to 2xEHT-LTF.
* The GI\_TYPE parameter is set to 1u6s\_GI.
* The SPATIAL\_REUSE parameter is set to SRP\_AND\_NON-SRG\_OBSS-PD\_PROHIBITED.
* The BSS\_COLOR parameter is set to the value indicated in the BSS Color subfield of the HE Operation element transmitted by the RSTA.
* (#53) The TXOP\_DURATION parameter is set as follows:
* If the FORMAT parameter is equal to HE\_SU, the parameter is set to either 127 or the value defined in Equation (26-3) replacing *D*HE\_NDPA by the following value:
	+ In the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)), and TB ranging measurement exchange with secure LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)), *D*Ranging\_NDP\_Announcement which is the Duration/ID field in the MAC header of the preceding Ranging NDP Announcementframe.
	+ In the non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)) and non-TB ranging measurement exchange with secure LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)), *D*Ranging\_NDP which is the TXOP field within the HE-SIG-A2 of the preceding I2R NDP.
* If the FORMAT parameter is equal to EHT\_MU, the parameter is set to either 127 or the value defined in Equation (35-3) replacing *D*EHT\_NDPA, by the following value:
	+ In the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)), and TB ranging measurement exchange with secure LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)), *D*Ranging\_NDP\_Announcement which is the Duration/ID field in the MAC header of the preceding Ranging NDP Announcementframe.
	+ In the non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)) and non-TB ranging measurement exchange with secure LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)), *D*Ranging\_NDP which is the TXOP field within the U-SIG of the preceding I2R NDP.
* ~~The TXOP\_DURATION parameter is set to either 127 or a value defined in Equation (26-3), replacing~~ *~~D~~*~~HE\_NDPA~~ ~~by~~ *~~D~~*~~Ranging\_NDP\_Announcement~~ ~~which is the Duration/ID field in the MAC header of the preceding Ranging NDP Announcement~~~~frame.~~

An ISTA transmitting an HE Ranging NDP or EHT Ranging NDP shall set the TXVECTOR parameter as follows:

* The FORMAT parameter is set to:
	+ ~~Is set to~~ EHT\_MU, if the CH\_BANDWIDTH is equal to 320 MHz.
	+ ~~Is set to~~ HE\_SU, otherwise.
* The RANGING\_FLAG is present.
* The UPLINK\_FLAG parameter is set to 1.
* The APEP\_LENGTH parameter is set to 0.
* The SECURE\_LTF\_FLAG is set to~~as follows~~:
	+ ~~Is set to~~ 0, in the non-TB ranging measurement exchange ([11.21.6.4.4](#H11o21o6o4o4)).
	+ ~~Is set to~~ 1, in the non-TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.3](#H11o21o6o4o5o3)).
* The TX\_WINDOW\_FLAG is set to 1 if the SECURE\_LTF\_FLAG is set to 1 and the RSTA and ISTA have negotiated to use the optional frequency domain Tx window for I2R NPDs; it is set to 0 otherwise.
* If the FORMAT parameter is equal to HE\_SU, ~~T~~the DOPPLER parameter is set to 0.
* The NUM\_STS parameter is set to the same value as the I2R NSTS subfield in the STA Info field with AID11 subfield equal or less than 2007 in the preceding Ranging NDP Announcement frame plus 1.
* The LTF\_REP parameter is set to the same value as the I2R Rep subfield with AID11 subfield equal or less than 2007 in the STA Info field in the preceding Ranging NDP Announcement frame plus 1.
* The TXPWR\_LEVEL\_INDEX parameter is set to a value that matches the Tx Power value indicated in the I2R NDP Tx Power subfield in the STA Info field with the AID11 subfield set to 2045 in the preceding Ranging NPD Announcement frame, except if the value in the I2R NDP Tx Power subfield was set to a reserved value.
* (#52)The CH\_BANDWIDTH is set to the same value as the TXVECTOR parameter CH\_BANDWIDTH or CH\_BANDWIDTH\_IN\_NON\_HT in the preceding Ranging NDP Announcement frame.
* If the FORMAT parameter is equal to EHT\_MU the INACTIVE\_SUBCHANNELS parameter is set to the Puncturing Pattern field in the 320 MHz Ranging subelement of the IFTM frame.
* In the non-TB ranging measurement exchange with secure ~~HE-~~LTF, the LTF\_KEY parameter is set as defined in [11.21.6.4.5.2](#H11o21o6o4o5o2) (Non-TB ranging measurement exchange with secure ~~HE-~~LTF). Otherwise, the LTF\_KEY parameter is not present.
* If the FORMAT parameter is equal to HE\_SU, ~~T~~the HE\_LTF\_TYPE parameter is set to 2xHE-LTF.
* If the FORMAT parameter is equal to EHT\_MU, the EHT\_LTF\_TYPE parameter is set to 2xEHT-LTF.
* The GI\_TYPE parameter is set to 1u6s\_GI.
* The SPATIAL\_REUSE parameter is set to SRP\_AND\_NON-SRG\_OBSS-PD\_PROHIBITED.
* The BSS\_COLOR parameter is set to the value indicated in the BSS Color subfield of the HE Operation element received from the RSTA.
* (#53) The TXOP\_DURATION parameter is set as follows:
	+ If the FORMAT parameter is equal to HE\_SU, ~~The TXOP\_DURATION~~ the parameter is set to either 127 or ~~a~~the value defined in Equation (26-3), replacing *D*HE\_NDPA by *D*Ranging NDP Announcement which is the Duration/ID field in the MAC header of the preceding Ranging NDP Announcementframe.
	+ If the FORMAT parameter is equal to EHT\_MU, the parameter is set to either 127 or the value defined in Equation (35-2), replacing *D*EHT\_NDPA by *D*Ranging\_NDP\_Announcement which is the Duration/ID field in the MAC header of the preceding Ranging NDP Announcementframe.

An ISTA transmitting an HE TB Ranging NDP or an EHT TB Ranging NDP to an RSTA shall set the TXVECTOR parameter as follows:

* The FORMAT parameter is set to:
	+ EHT\_TB, if the CH\_BANDWIDTH is equal to 320 MHz.
	+ ~~to~~ HE\_TB, otherwise.
* The RANGING\_FLAG is present.
* The APEP\_LENGTH parameter is set to 0.
* The SECURE\_LTF\_FLAG is set as follows:
	+ Is set to 0 in the TB ranging measurement exchange ([11.21.6.4.3](#H11o21o6o4o3)).
	+ Is set to 1 in the TB ranging measurement exchange with secure ~~HE-~~LTF ([11.21.6.4.5.2](#H11o21o6o4o5o2)).
* The TX\_WINDOW\_FLAG is set to 1 if the SECURE\_LTF\_FLAG is set to 1 and the RSTA and ISTA have negotiated to use the optional frequency domain Tx window for I2R NPDs; it is set to 0 otherwise.
* If the FORMAT parameter is equal to HE\_TB, ~~T~~the DOPPLER parameter is set to 0.
* The NUM\_STS parameter is set to the same value as the Number Of Spatial Streams subfield in the SS Allocation field in the User Info field in the preceding Ranging Sounding Trigger frame.
* The LTF\_REP parameter is set to the same value as the I2R Rep subfield in the User Info field in the preceding Ranging Sounding Trigger frame plus 1.
* (#52) The CH\_BANDWIDTH parameter is set to the ~~same~~ value ~~as the TXVECTOR parameter CH\_BANDWIDTH~~ assigned in the preceding Ranging Sounding Trigger frame.
* If the FORMAT parameter is equal to EHT\_TB the INACTIVE\_SUBCHANNELS parameter is set to the Puncturing Pattern field in the 320 MHz Ranging subelement of the IFTM frame.
* In the TB ranging measurement exchange with secure ~~HE-~~LTF, the LTF\_KEY parameter is set as defined in [11.21.6.4.5.2](#H11o21o6o4o5o2) (TB ranging measurement exchange with secure ~~HE-~~LTF). Otherwise, the LTF\_KEY parameter is not present.
* If the FORMAT parameter is equal to HE\_TB, ~~T~~the HE\_LTF\_TYPE parameter is set to 2xHE-LTF.
* If the FORMAT parameter is equal to EHT\_TB, ~~T~~the EHT\_LTF\_TYPE parameter is set to 2xEHT-LTF.
* The GI\_TYPE parameter is set to 1u6s\_GI.
* The SPATIAL\_REUSE parameter is set to SRP\_AND\_NON-SRG\_OBSS\_PD\_PROHIBITED.
* The BSS\_COLOR parameter is set to the value indicated in the BSS Color subfield of the HE Operation element received from the RSTA.
* (#53) The TXOP\_DURATION parameter is set as follows:
	+ If the FORMAT parameter is equal to HE\_TB, ~~The TXOP\_DURATION~~ the parameter is set as defined in 26.11.5 (TXOP\_DURATION).
	+ If the FORMAT parameter is equal to EHT\_TB, the parameter is set as defined in 35.11.1.5 (TXOP\_DURATION).(#**1136**)