IEEE P802.11  
Wireless LANs

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| TGbe D0.1 Spec Text Volunteers and Status | | | | | |
| Date: 2020-07-02 | | | | | |
| Author(s): | | | | | |
| Name | Affiliation | Address | Phone | email |
| Alfred Asterjadhi | Qualcomm Inc. | 5775 Morehouse Dr, San Diego, CA 92109 | +1-858-658-5302 | aasterja@qti.qualcomm.com |
| Laurent Cariou | Intel Corp. |  |  |  |
| Matthew Fischer | Broadcom Inc. |  |  |  |
| Edward Au | Huawei |  |  |  |

Abstract

This document contains a table with the spec text volunteers and status updates for TGbe D0.1.

Revisions:

* Rev 0: Initial version of the document.
* Rev 1: Removed selected rows that had no motions (~~removal~~)
* Rev 2: Updated with received requests after the call for volunteers, incorporating modifications suggested by members to the subdivision of the topics.
* Rev 3: More updates. Highlighted in yellow rows that do not have POCs and in blue rows that have multiple POCs.
* Rev 4: More updates based on received feedback (members, and ad-hoc chairs). Also added some early R1/R2 classifications to be discussed during the Joint call and added guideline for categorizing R1 vs R2.

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| **Layer** | **SFD Topic** | **POC** | **TTT** | **Status** | **Notes** |
| PHY | Introduction to the EHT PHY | Bin Tian | Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | Scope and EHT PHY functions | Youhan Kim | Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | TXVECTOR and RXVECTOR parameters | Bo Sun | Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | Support for non-HT, HT, VHT, and HE formats | Bo Sun | Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | Subcarriers and Resource Allocation- Wideband and noncontiguous spectrum utilization | Yan Xin | Eunsung Park, Wook Bong Lee, Bin Tian, Bo Sun,  Dandan Liang, Youhan Kim  Shimi Shilo, |  |  |
| PHY | Subcarriers and Resource Allocation-Support for large bandwidth |
| PHY | Subcarriers and Resource Allocation -Single RU |
| PHY | Subcarriers and Resource Allocation -Multiple RU | Jianhan Liu | Eunsung Park, Bin Tian, Srinath Puducheri, Bo Sun, Myeongjin Kim, Youhan Kim, Oded Redlich |  |  |
| PHY | MU MIMO | Sameer Vermani | Sameer Vermani, Bo Sun, Youhan Kim, Dandan Liang, Junghoon Suh, Aiguo Yan |  |  |
| PHY | EHT PPDU formats | Dongguk Lim | Bo Sun, Rui Yang, Youhan Kim, Lei Huang |  | Basics (R1) |
| PHY | Transmitter block diagram | Xiaogang Chen | Bo Sun, Rui Yang, Youhan Kim |  | Basics (R1) |
| PHY | Overview of the PPDU encoding process | Youhan Kim | Bo Sun, Youhan Kim |  |  |
| PHY | EHT Modulation and coding schemes (EHT-MCSs) | Rethna Pulikkoonattu | Bo Sun, Ruchen Duan, Youhan Kim |  |  |
| PHY | Timing-related parameters | Bin Tian | Bo Sun, Youhan Kim, Yan Zhang |  |  |
| PHY | Mathematical description of signals | Yan Zhang, | Bo Sun, Ruchen Duan, Youhan Kim |  |  |
| PHY | EHT preamble-L-STF, L-LTF, L-SIG, and RL-SIG | Dongguk Lim | Eunsung Park, Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | EHT preamble-U-SIG | Sameer Vermani | Ross Yu, Bo Sun, Lei Huang, Wook Bong Lee, Rui Cao, Bo Sun, Mark Rison, Youhan Kim |  | Basics (R1) |
| PHY | EHT preamble-EHT-SIG | Ross Yu, | Lei Huang, Rui Cao, Bo Sun, Myeongjin Kim, Mark Rison, Dongguk Lim |  | Basics (R1) |
| PHY | EHT preamble-EHT-STF | Eunsung Park | Dandan Liang, Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | EHT preamble-EHT-LTF | Dandan Liang, | Bo Sun, Youhan Kim, Jinyoung Chun |  | Basics (R1) |
| PHY | EHT preamble-Preamble puncture | Oded Redlich | , Wook Bong Lee, Bo Sun, Youhan Kim |  |  |
| PHY | Data field-Scrambler | Chenchen Liu | Bo Sun, Youhan Kim |  | Basics (R1) |
| PHY | Coding | Yan Zhang | Bo Sun, Youhan Kim |  |  |
| PHY | Data field-Segment Parser | Jianhan Liu | Tianyu Wu, Bo Sun, Youhan Kim, Dandan Liang |  |  |
| PHY | Resource unit-Interleaving for RUs and aggregated RUs | Jianhan Liu | Tianyu Wu, Bo Sun, Junghoon Suh, Ruchen Duan, Youhan Kim |  |  |
| PHY | Pilot | Jinyoung Chun | Bo Sun, Youhan Kim |  |  |
| PHY | OFDM Modulation | Sigurd Schelstraete | Shimi Shilo, Bo Sun, Rethna Pulikkoonattu, Youhan Kim, Rui Cao |  |  |
| PHY | Packet extension | Yan Zhang | Bo Sun, Yujin Noh, Youhan Kim |  |  |
| PHY | Beamforming | Genadiy Tsodik, | Sameer Vermani, Bo Sun, Youhan Kim, Wook Bong Lee, Jinyoung Chun |  |  |
| PHY | EHT sounding NDP | Sameer Vermani | Bo Sun, Youhan Kim, Junghoon Suh |  |  |
| PHY | Transmit specification: Transmit spectral mask and spectral flatness |  | Bo Sun, Youhan Kim |  |  |
| PHY | Transmit specification: Clock frequency and modulation accuracy |  |  |  |  |
| PHY | Receive specification: General and receiver minimum input sensitivity and channel rejection |  | Bo Sun, Youhan Kim, Aiguo Yan |  |  |
| PHY | Receive specification: CCA sensitivity |  | Bo Sun, Youhan Kim, Aiguo Yan |  |  |
| PHY | EHT transmit procedure | Xiaogang Chen | Bo Sun, Yujin Noh, Youhan Kim |  |  |
| PHY | EHT receive procedure | Xiaogang Chen | Bo Sun, Yujin Noh, Youhan Kim |  |  |
| PHY | Channel numbering | Ruchen Duan | Bo Sun, Ruchen Duan, Youhan Kim |  |  |
| PHY | Regulatory requirements | Bo Sun | Bo Sun, Youhan Kim |  |  |
| PHY | EHT PLME | Youhan Kim | Bo Sun, Youhan Kim |  |  |
| PHY | Parameters for EHT-MCSs | Yujin Noh | Bo Sun, Yujin Noh, Ruchen Duan, Youhan Kim |  |  |
|  | | | | | |
| MAC | General | George Cherian, Dibakar Das | Jarkko Kneckt, Yunbo Li, BARON Stephane,  VIGER Pascal, Akhmetov Dmitry, NEZOU Patrice, James Yee, Jeongki Kim |  | ?? |
| MAC | EHT Operation Element | Guogang Huang | Liwen Chu, Po-kai Huang, Insun Jang, George Cherian, Mark Rison |  | Basics (R1) |
| MAC | EHT BSS Operation | Liwen Chu, | Guogang Huang, Po-kai Huang, Insun Jang, George Cherian, Mark Rison |  | Basics (R1) |
| MAC | TXOP | Kaiying Lu, Yanjun Sun | Das, Dibakar, Jarkko Kneckt, Yunbo Li, Jeongki Kim, Akhmetov Dmitry, Liuming Lu, Greg Geonjung Ko |  | ?? |
| MAC | Priority access support for NS/EP services | Subir Das | Leif Wilhelmsson, An Nguyen |  | ?? |
| MAC | Wideband and noncontiguous spectrum utilization | Young Hoon Kwon, Yanjun Sun | Kaiying Lu, Jarkko Kneckt, Laurent Cariou, Yunbo Li |  | No Motions |
| MAC | MLO-General | Young Hoon Kwon, Po-kai Huang, Yonggang Fang | Abhishek Patil, Dibakar Das, Kaiying Lu, Jarkko Kneckt, Yunbo Li, VIGER Pascal, Zhou Lan, Ryuichi Hirata, Sanghyun Kim, Xiaofei Wang, Harry Wang |  | R1 |
| MAC | MLO-Multi-link setup: Procedure | Po-kai Huang,  Insun Jang, Duncan Ho,  Yonggang Fang | Liwen Chu, Abhishek Patil,  Dibakar Das, Yongho Seok, Jarkko Kneckt, Guogang Huang, Rojan Chitrakar, Chenhe Ji, Yonggang Fang, Jason Yuchen Guo, Xiaofei Wang, Harry Wang |  | R1 |
| MAC | MLO-Multi-link setup: Security | Po-kai Huang,  Insun Jang,  Duncan Ho,  Yonggang Fang | Liwen Chu, Abhishek Patil, Dibakar Das, Yongho Seok, Jarkko Kneckt, Guogang Huang, Rojan Chitrakar, Chenhe Ji, Yonggang Fang, Yong Liu, Jason Yuchen Guo, Xiaofei Wang, Harry Wang |  | R1 |
| MAC | MLO-TID mapping/Link Management: Default Mode and Enablement | Laurent Cariou, | Yongho Seok, Matthew Fischer, Young Hoon Kwon, Abhishek Patil, Jarkko Kneckt, Insun Jang,  Namyeong Kim, Chenhe Ji, Sharan Naribole, Cheng Chen, Chunyu Hu, Greg Geonjung Ko, Payam Torab, Dibakar Das, Liuming Lu, Guogang Huang, Harry Wang |  | R1 |
| MAC | MLO-TID mapping/Link Management: TID to Link Mapping | Yongho Seok, | Laurent Cariou, Matthew Fischer,  Young Hoon Kwon, Abhishek Patil, Jarkko Kneckt, Insun Jang,  Namyeong Kim, Chenhe Ji, Sharan Naribole, Cheng Chen, Chunyu Hu, Greg Geonjung Ko, Payam Torab, Dibakar Das, Guogang Huang, Harry Wang |  | R1/R2? |
| MAC | MLO-Multi-link block ack: Procedure | Abhishek Patil | Liwen Chu, Po-kai Huang, Kaiying Lu, Jarkko Kneckt, Tomo Adachi, Rojan Chitrakar, Arik Klein, Taewon Song, Zhou Lan, Ryuichi Hirata, Yusuke Tanaka, Xiaofei Wang, Sebastian Max, Jonghun Han, Ming Gan |  | R1 |
| MAC | MLO-Multi-link block ack: sharing and extension of SN space | Liwen Chu,  , | Abhishek Patil, Po-kai Huang, Kaiying Lu, Jarkko Kneckt, Tomo Adachi, Rojan Chitrakar, Arik Klein, Taewon Song, Zhou Lan, Ryuichi Hirata Yusuke Tanaka, Xiaofei Wang, Sebastian Max, Jonghun Han, Jason Yuchen Guo |  | R1 |
| MAC | MLO-Power save: Traffic Indication | Minyoung Park, | Abhishek Patil, Jeongki Kim, Laurent Cariou, Young Hoon Kwon, Yongho Seok, Jarkko Kneckt, Rojan Chitrakar, Namyeong Kim, Sharan Naribole, Matthew Fischer, PEYUSH Agarwal, Jay Yang, Jason Yuchen Guo, Xiaofei Wang, Jonghun Han |  | R1/R2?  Many motions.  Probably basics in R1 (see note). |
| MAC | MLO-Power save: Power state indication, | Jeongki Kim, | Minyoung Park, Abhishek Patil, Ming Gan, Laurent Cariou, Young Hoon Kwon, Yongho Seok, Jarkko Kneckt, Rojan Chitrakar, Namyeong Kim, Sharan Naribole, Matthew Fischer, PEYUSH Agarwal, Jay Yang, Jason Yuchen Guo, Jason Yuchen Guo, Xiaofei Wang , Jonghun Han |  | R1/R2?  Many motions.  Basics in R1 (see note). |
| MAC | MLO-Power save: BSS parameter update, TWT | Ming Gan | Minyoung Park, Abhishek Patil, Laurent Cariou, Young Hoon Kwon, Yongho Seok, Jarkko Kneckt, Rojan Chitrakar, Namyeong Kim, Sharan Naribole, Matthew Fischer, PEYUSH Agarwal, Jay Yang, Jason Yuchen Guo, Jason Yuchen Guo, Xiaofei Wang , Jonghun Han |  | R1/R2?  Many motions.  Basics in R1 (see note). |
| MAC | MLO-Power save: General and other procedures | Abhishek Patil | Minyoung Park, Ming Gan, Laurent Cariou, Young Hoon Kwon, Yongho Seok, Jarkko Kneckt, Rojan Chitrakar, Namyeong Kim, Sharan Naribole, Matthew Fischer, PEYUSH Agarwal, Jay Yang, Jason Yuchen Guo, Jason Yuchen Guo, Xiaofei Wang , Jonghun Han |  | R1/R2?  Many motions.  Basics in R1 (see note). |
| MAC | MLO-Multi-link group addressed data delivery | Kaiying Lu,  Ming Gan,  Duncan Ho | Po-kai Huang, Jarkko Kneckt, Jeongki Kim |  | R1 |
| MAC | MLO-Multi-link channel access: General & End PPDU Alignment | Yongho Seok, Yunbo Li,  Insun Jang,  Matthew Fischer, Duncan Ho | Minyoung Park, Liwen Chu,  Dibakar Das, Jarkko Kneckt, Chunyu Hu, Tomo Adachi, Jeongki Kim, NEZOU Patrice, Sharan Naribole, Yonggang Fang, Zhou Lan, Akhmetov Dmitry, PEYUSH Agarwal, Liuming Lu, Ryuichi Hirata, Sanghyun Kim, Xin Zuo, Sebastian Max, Laurent Cariou, Jonghun Han, Youhan Kim |  | Basics in R1 (see note). |
| MAC | MLO-Multi-link channel access: Synch Start of PPDU | Yongho Seok, Yunbo Li,  Insun Jang,  Matthew Fischer,  Duncan Ho, Akhmetov Dmitry | Minyoung Park, Liwen Chu,  Dibakar Das, Jarkko Kneckt, Chunyu Hu, Tomo Adachi, Jeongki Kim, NEZOU Patrice, Sharan Naribole, Yonggang Fang, Zhou Lan, Akhmetov Dmitry, PEYUSH Agarwal, Liuming Lu, Ryuichi Hirata Sanghyun Kim,  Xin Zuo, Sebastian Max, Laurent Cariou, Jonghun Han, Youhan Kim |  | No Motion. |
| MAC | MLO-Multi-link channel access: Blindness | Yongho Seok, Yunbo Li,  Insun Jang,  Matthew Fischer Duncan Ho, Dibakar Das | Minyoung Park, Liwen Chu,  Dibakar Das, Jarkko Kneckt, Chunyu Hu, Tomo Adachi, Jeongki Kim, NEZOU Patrice, Sharan Naribole, Yonggang Fang Zhou Lan, Akhmetov Dmitry, PEYUSH Agarwal, Liuming Lu, Ryuichi Hirata Sanghyun Kim, Xin Zuo, Sebastian Max, Laurent Cariou, Jonghun Han, Youhan Kim |  | No Motion. |
| MAC | MLO-Discovery: Discovery procedures and RNR | Laurent Cariou,  Ming Gan | Liwen Chu, Jarkko Kneckt, Namyeong Kim, Cheng Chen, Rojan Chitrakar, Abhishek Patil, Xiaofei Wang, James Yee, Sharan Naribole |  | R1? |
| MAC | MLO-Discovery: ML element | Laurent Cariou, Abhishek Patil,  Ming Gan, | Liwen Chu, Jarkko Kneckt, Namyeong Kim, Cheng Chen, Rojan Chitrakar, Xiaofei Wang, James Yee |  | R1? |
| MAC | MLO-Discovery: Multi-BSSID discovery | Laurent Cariou, Abhishek Patil,  Ming Gan, Liwen Chu, | Jarkko Kneckt, Namyeong Kim, Cheng Chen, Rojan Chitrakar, James Yee, Sharan Naribole |  | R1? |
| MAC | MLO-Multi-BSSID Operation | Abhishek Patil | Laurent Cariou, Liwen Chu, Jarkko Kneckt, Insun Jang,  VIGER Pascal, Pooya Monajemi, Rojan Chitrakar Xin Zuo, James Yee, Ming Gan |  | R1? |
| MAC | MLO-Retransmissions | Rojan Chitrakar | Abhishek Patil, Jason Yuchen Guo, Jonghun, Han |  | No motions |
| MAC | Multi-band and multichannel aggregation and operation General | Duncan Ho | Minyoung Park, Jarkko Kneckt, Tomo Adachi, Payam Torab, Stephen McCann, Yunbo Li |  | No motions |
| Joint | Spatial stream and MIMO protocol enhancement-General | Wook Bong Lee | Minyoung Park, Yanjun Sun, Stephen McCann, Youhan Kim, Chenchen Liu |  | No motions. |
| Joint | Spatial stream and MIMO protocol enhancement-16 spatial stream operation | Wook Bong Lee | Junghoon Suh, Yanjun Sun, , Chenchen Liu |  | R1/R2? |
| MAC | MAP-Setup/General | Taewon Song  Chen Cheng George Cherian | Guogang Huang, Kosuke Aio, VIGER Pascal, Yonggang Fang, Jay Yang, Yusuke Tanaka, Oren Kedem, Xiaofei Wang, Stephen McCann, Po-kai Huang, Matthew Fischer |  | R1/R2? |
| Joint | MAP-Channel sounding | Junghoon Suh | Lei Huang, Kosuke Aio, Stephen McCann, Matthew Fischer, Myeongjin Kim |  | R1/R2? |
| Joint | MAP-Coordinated transmission | Jason Yuchen Guo, George Cherian | Rojan Chitrakar, Arik Klein, Kosuke Aio, BARON Stephane, VIGER Pascal, NEZOU Patrice, Thomas Handte, Matthew Fischer, Chunyu Hu, Xiaofei Wang, Chen Cheng, Stephen McCann, Po-kai Huang, Yongho Seok, Taewon Song, Matthew Fischer |  | R1/R2? |
| Joint | MAP-Other Multi-AP coordination schemes – Coordinated SR | Jason Yuchen Guo, Yongho Seok | Kosuke Aio, Stephen McCann, Jonghun Han, Taewon Song, Matthew Fischer |  | R1/R2=TBD? |
| Joint | MAP-Other Multi-AP coordination schemes – Joint Transmissions | Jason Yuchen Guo, Yongho Seok | Kosuke Aio, Stephen McCann, Taewon Song, Matthew Fischer, Wook Bong Lee |  | Release 2. |
| Joint | MAP-Other Multi-AP coordination schemes – Coordinated Beamforming | Jason Yuchen Guo, Yongho Seok | Kosuke Aio, Stephen McCann, Taewon Song, Matthew Fischer, Wook Bong Lee |  | Release 2. |
| Note – Even though a particular topic is listed as Release 1 it does not necessarily mean that all underlying motions are in Release 1. | | | | | |

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| MAC | Quality of Service for latency sensitive traffic\* | Chunyu Hu, Frank Hsu, Dave Cavalcanti, Duncan Ho, | Dibakar Das, BARON Stephane, VIGER Pascal, NEZOU Patrice, Thomas Handte, Sharan Naribole, Subir Das, Akhmetov Dmitry, Liuming Lu, Akira Kishida, Mohamed Abouelseoud, Orem Kedem, Xin Zuo, Chittabrata Ghosh, Payam Torab, Leif Wilhelmsson, Sebastian Max, Liangxiao Xin, Jonghun Han, Taewon Song, Mark Rison, Guogang Huang |  | No motions. |
| \* Rows that are pending until at least one motion passes on this topic. Currently there is only SP(s) in the compendium SPs document but no motion in the SFD in this topic. | | | | | |

# Guideline-Spec Text Drafting for TGbe D0.1

* The Chair will call for volunteers for writing spec text for D0.1 of IEEE802.11be. D0.1 is expected to cover topics that are part of Release 1.
  + Any member can volunteer for this task and will be included in the respective topic task team (TTT).
  + Topic classification will be based on the TGbe SFD subclause (assuming there is at least one motions for that subclause).
  + Re-organizations and/or re-classifications may be requested of the TGbe editor if there are structural inconsistencies.
* For each subclause/topic a member will be assigned to be the point of contact (POC).
  + Any member can volunteer to be the POC for a given subclause/topic, however it is recommended that the POC is familiar with the technical details (e.g., has contributed to the TGbe SFD on that topic). Additionally, the POC should have experience in spec text writing.
  + If more than one member volunteers to be a POC for a topic then a quick discussion on the next conf call (to which that topic falls) will be entertained to select the POC.
* POCs responsibilities are as follows:
  + Prepare main skeleton (and spec text for the topic) of the subclauses pertaining to that topic and upload the base document to the mentor website,
    - For ease of identification, all draft text documents to begin with "PDT-" for "Proposed Draft Text, and the topic classification (MAC/PHY/JOINT)" (e.g. 11-20-0999-00be-PDT-MAC-MLO-Power-Save).
  + Start a thread in the TGbe reflector for that topic, which is the point of reference for having discussions and exchanging feedback with other members.
    - Again, for ease of identification, the thread should start with [PDT-MAC/PHY/JOINT]
  + Assign tasks to other volunteering members (e.g., assign portions of spec text in dependent subclauses) that are part of that topic task team (TTT),
  + Merge spec text provided by other members of the TTT into the base document,
  + Ensure that there is no conflict between spec texts provided by members of that TTT.
  + Should ensure that all the concepts for that topic that are present in the TGbe SFD are covered by spec text being developed in the TTT.
* If there is a conflict for a concept within that topic then any member can bring the subject to any of the scheduled conference calls to seek guidance from the TGbe group.
  + Guidance can be in the form of technical feedback, narrowing down options via straw polls.
  + This accelerated path (for spec text discussions) is dedicated to essential components for the functionality or completeness of that feature.
* When the spec text for a particular subclause/topic is ready then the POC should request the respective chairs (MAC/PHY/JOINT) to run a SP for including the prepared spec text to the D0.1 of 11be.
  + The document that is planned to be ran should be posted in the server for at least 7 days prior to running the SP.
  + If the SP is approved then the TGbe editor will include the spec text to the draft, otherwise the spec text will not be included in its current form.
  + The deadline for completing this task is set for **September 1st 2020** (EOD ET).
  + Note: Figures should be provided to the editor in visio format (monochromatic).
* The TGbe editor will then start preparing D0.1. Expectation is for draft D0.1 to be ready in 2 weeks. The draft will then be scheduled for a motion on the subsequent Joint conference call (expected to have Joint conf call on **Wednesday 16th** of September 2020).

# Guideline - R1 vs R2 categorization

* If a motion present in the SFD is explicitly mentioning Release 1 then members (POCs and TTTs) can initiate work on spec text drafting for that topic.
* If a motion present in the SFD is not explicitly mentioning Release 1 or Release 2 then have a straw poll as to whether to include that concept in Release 1.
  + If the straw poll passes, then the concept is assumed to be in Release 1. Members (POCs and TTTs) can initiate work on spec text drafting for D0.1).
  + If the straw poll fails, then the concept is assumed to be in Release 2. Straw poll can be run again in a future conference call if there is an expectation that consensus has been reached. It is still okay to have POCs and TTTs as a reference but spec contributions on that concept will not be entertained for inclusion in D0.1.
* If a motion present in the SFD is explicitly mentioning R2 spec text for that particular concept will not be entertained for inclusion in D0.1. It is still okay to have POCs and TTTs as a reference. Spec text contributions for Release 2 will be entertained for a subsequent draft (details are work in progress).