IEEE P802.11
Wireless LANs

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| Clause 4.3.14a Comment Resolution |
| Date: 2017-08-23 |
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Abstract

This submission includes proposed resolutions to CIDs 6925, 6926, 6931, 6932, 6933, 6934, 7896, and 8170. All CIDs except CID 7896 belong to the **MAC** group. CID 7896 belong to the **Editor** group.

R0: Initial draft

R1: fixing some typos.

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| **CID** | **Page** | **Line** | **Clause** | **Comment** | **Proposed Change** | **Resolution** | **Owning Ad-hoc** |
| 6925 | 9.10 | 10 | 4.3.14a | The 802.11ax amendment provides new capabilities/features that warrant a more explanative introduction then simply stating a list of the "new" phy/mac features and if the features are mandatory or optional. Therefore adding descriptive text as to what the new capabilities and features of a HE STA are and what the purpose and benefits of these capabilities and features are is warranted. | Provide a useful and clear introduction to the new capabilities provided by 802.11ax features, including: 1) the benefits of the of capability (e.g. provides for MU access to lower overhead and reduce congestion in 802.11 BSSs), 2) the features of 802.11ax that will enable this capability (e.g. OFDMA or MU-MIMO), and 3) for capabilities that have multiple features supporting them what the expectation/use for the features that support the capability. | RejectedClause 4.3.14a provides a general description of HE STA. It is written in the same style as clauses 4.3.13 (High Throughput (HT)) STA and 4.3.14 (Very High Throughput (VHT) STA. Clause 4.3.14a provides a general description of HE STA and is not intended to provide detailed description of each feature and its benefits. Detailed descriptions are provided in the MAC (Clause 27) and in the PHY (Clause 28) sections. | MAC |
| 6926 | 9.32 | 32 | 4.3.14a | The 802.11ax amendment provides new capabilities/features that warrant a more explanative introduction then simply stating a list of the "new" phy/mac features and if the features are mandatory or optional. I don't believe that clause 4 is the place for stating if a feature is optional or mandatory. | Provide a introduction to the new PHY and MAC features without stating if they are Mandatory or Optional. | Rejected Cluase 4.3.14a is written in the same style as clause 4.3.14 (Very High Throughput (VHT) STA). Stating M/O in Clause 4 provides a quick and easy access to feature designation. | MAC |
| 6931 | 9.33 | 33 | 4.3.14a | While I understand that the introduction of OFDMA is a key PHY feature for HE STAs, I don't understand why stating the mandatory support of the various RUs is necessary in the General description. | Delete the Mandatory RUs supported from this subclause. | RevisedRU listing and its M/O support is removed in draft D1.4. | MAC |
| 6932 | 9.43 | 43 | 4.3.14a | Why is only DL MU-MIMO support for the mandatory case the only PHY feature listed. Why aren't the other non-mandatory DL MU-MIMO features listed? | Add Option Support for DL MU-MIMO modes that are not mandatory | RevisedClause 4.3.14a was updated in draft D1.4 as a result of comment resolutions in submission 11-17/1058r8. Other PHY features such as OFDMA, UL MU-MIMO, etc are also included. | MAC |
| 6933 | 9.43 | 43 | 4.3.14a | Option support fir 1024-QAM seems to be an adequate description of the feature, the RU restrictions do not seem necessary as a general description. | Delete the RU limits from the PHY feature | RevisedChanges to Clause 4.3.14a as a result of comment resolutions in doc 11-17/1058 removed the RU limit as requested by the commenter. | MAC |
| 6934 | 9.48 | 48 | 4.3.14a | the description of the new MAC features do not clearly state why these features were introduce, the text simply implies it. It would be clearer to state why these features are being introduced and then provide some guidance on where in the specification the details of these features can be found. | Insert a paragraph introducing the need/purpose of the new MAC features. | RejectedClause 4.3.14a provides a general description of HE STA. It is written in the same style as clauses 4.3.13 (High Throughput (HT)) STA and 4.3.14 (Very High Throughput (VHT) STA. Clause 4.3.14a provides a general description of HE STA and is not intended to provide detailed description of each feature and its benefits. Detailed descriptions are provided in the MAC (Clause 27) section. | MAC |
| 7896 |  |  |  | UL MU-MIMO should be optional | Make UL MU-MIMO optional rather than mandatory | RevisedThe updated clause 4.3.14a in draft D1.4 states clearly UL MU-MIMO is optional. | EDITOR |
| 8170 | 9.21 | 21 | 4.3.14a | The term "only" implies that the HE non-AP STA can only support 20MHz operation. It would be nice if the HE non-AP STA could support operation in more than 20MHz channel bandwidths. | "An HE non-AP STA shall support operation in 20 MHz channel bandwidth." | RevisedCluase 4.3.14a in draft D1.4 doesn’t include the “only” statement in draft D1.0. It was replaced with “*An HE STA shall support operation in 40 MHz and 80 MHz channel width unless the STA indicates that it only supports 20 MHz channel width*” as indicated in doc 11-17/1058r8. | MAC |

**Context:**

All the CIDs in this submission refer to Clause 4.3.14a in draft D1.0. Submission 11-17/1058r8 has extensively updated this clause and the changes are already included in draft D1.4. Many of the concerns expressed in the above comments were addressed in 11-17/1058r8.

**References:**