IEEE P802.11
Wireless LANs

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| Proposed Specification Framework for TGax |
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Abstract

This document provides the framework from which the draft TGax amendment will be developed. The document provides an outline of each the functional blocks that will be a part of the final amendment. The document is intended to reflect the working consensus of the group on the broad outline for the draft specification. As such it is expected to begin with minimal detail reflecting agreement on specific techniques and highlighting areas on which agreement is still required. It may also begin with an incomplete feature list with additional features added as they are justified. The document will evolve over time until it includes sufficient detail on all the functional blocks and their inter-dependencies so that work can begin on the draft amendment itself.

# 0 Revision Notes

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| R0 | Initial draft document with a table of content |
| R1 | Changed simpler for more appropriate for an initial draft |
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# 1 Definitions

**Orthogonal Frequency Division Multiple Access (OFDMA):** A technique where multiple STAs each with potentially multiple frequency resources, transmit and/or receive independent data streams simultaneously

**Downlink OFDMA (DL OFDMA):** OFDMA with multiple receiving non-AP STAs and a single transmitting AP.

# 2 Abbreviations and Acronyms

HE High Effcieincy

# 3 HE Physical Layer

This section describes the functional blocks of the physical layer.

# 4 Multi-User Transmission

This section describes the functional blocks of multi-user transmission related features including OFDMA and MU-MIMO.

# 5 Coexistence

This section describes the functional blocks of coexistence.

## 5.1 Features for operation in dense environments

This section describes features that improve overlapping BSS (OBSS) operation in dense environments. This includes features such as deferral rules and CCA levels.

# 6 MAC Layer

This section describes the functional blocks of the MAC layer.

## 6.1 Power Efficiency

**References:**

11-14-1009-02-00ax-proposed-802-11ax-functional-requirements

11-11-1137-02-00ah-specification-framework-for-tgah

11-09-0992-03-00ac-proposed-specification-framework-for-tgac