IEEE P802.11  
Wireless LANs

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| Proposed Specification Framework for TGah | | | | |
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Abstract

This document provides the framework from which the draft TGah 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 | Added supporting bandwidth modes [11/1294r0]  Added the number of tones for 2MHz PHY transmission and the tone spacing for all other bandwidth modes [11/1311r0] |
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# 1 Definitions

# 2 Abbreviations and Acronyms

S1G sub 1 GHz

PLCP physical layer convergence procedure

STA station

MAC medium access control

# 3 S1G Physical Layer

This section describes the functional blocks of the physical layer.

## 3.1 Channelization

R.3.1.A: The draft specification shall include support for 1 MHz, 2 MHz, 4 MHz, 8 MHz, and 16 MHz PHY transmissions. [11/1294r0]

R.3.1.B: An 802.11ah STA shall support reception of 1 MHz and 2 MHz PHY transmissions. [11/1294r0]

R.3.1.C: The 2 MHz PHY transmission shall be an OFDM based waveform consisting of a total of 64 tones (including tones allocated as pilot, guard and DC). Note: This implies a tone spacing of 31.25 kHz. [11/1311r0]

R.3.1.D: The tone spacing for all other bandwidths PHY transmissions shall be same as the tone spacing in the 2 MHz PHY transmission. [11/1311r0]

## 3.2 S1G PLCP Sublayer

## 3.3 Modulation and Coding Scheme (MCS)

# 4 MAC Layer

This section describes the functional blocks of the MAC layer.

## 4.1 Power Save

## 4.2 Channel Access

## 4.3 Large Number of STAs Support

**References:**

11/1294r0 Spec Framework Text for 11ah Bandwidth Modes

11/1311r0 Spec Framework Text for PHY Numerology