IEEE P802.11  
Wireless LANs

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Proposed Specification Framework for TGax | | | | | | | |
| Date: 2014-11-03 | | | | | | | |
| Author(s): | | | | | | | |
| Name | | Affiliation | Address | | Phone | email | |
| Robert Stacey | | Intel | 2111 NE 25th Ave, Hillsboro OR 97124, USA | | 503-724-0893 | robert.stacey@intel.com | |
| Eldad Perahia | Intel | |  |  | | eldad.perahia@intel.com |
| Shahrnaz Azizi |  |  | | shahrnaz.azizi@intel.com |
| Po-Kai Huang |  |  | | po-kai.huang@intel.com |
| Qinghua Li |  |  | | quinghua.li@intel.com |
| Xiogang Chen |  |  | |  |
| Rongzhen |  |  | |  |
| Fei Tong | Samsung | | Innovation Park,  Cambridge CB4 0DS (U.K.) | +44 1223 434633 | | f.tong@samsung.com |
| Hyunjeong Kang | Maetan 3-dong; Yongtong-Gu Suwon; South Korea | +82-31-279-9028 | | hyunjeong.kang@samsung.com |
| Kaushik Josiam | 1301, E. Lookout Dr,  Richardson TX 75070 | (972) 761 7437 | | k.josiam@samsung.com |
| Mark Rison | Innovation Park,  Cambridge CB4 0DS (U.K.) | +44 1223 434600 | | m.rison@samsung.com |
| Rakesh Taori | 1301, E. Lookout Dr,  Richardson TX 75070 | (972) 761 7470 | | rakesh.taori@samsung.com |
| Sanghyun Chang | Maetan 3-dong; Yongtong-Gu Suwon; South Korea | +82-10-8864-1751 | | s29.chang@samsung.com |
| Lei Wang | Marvell | | 5488 Marvell Lane, Santa Clara, CA, 95054 | 858-205-7286 | | Leileiw@marvell.com |
| Hongyuan Zhang |  |  | |  |
| Yakun Sun |  |  | |  |
| Liwen Chu |  |  | |  |
| Mingguan Xu |  |  | |  |
| Jinjing Jiang |  |  | |  |
| Yan Zhang |  |  | |  |
| Rui Cao |  |  | |  |
| Sudhir Srinivasa |  |  | |  |
| Saga Tamhane |  |  | |  |
| Mao Yu |  |  | |  |
| Edward Au |  |  | |  |
| Hui-Ling Lu |  |  | |  |
| Yasushi Takatori | NTT | | 1-1 Hikari-no-oka, Yokosuka, Kanagawa 239-0847 Japan |  | | takatori.yasushi@lab.ntt.co.jp |
| Yasuhiko Inoue |  |  | | inoue.yasuhiko@lab.ntt.co.jp |
| Yusuke Asai |  |  | | asai.yusuke@lab.ntt.co.jp |
| Koichi Ishihara |  |  | | ishihara.koichi@lab.ntt.co.jp |
| Akira Kishida |  |  | | kishida.akira@lab.ntt.co.jp |
| Akira Yamada | NTT DOCOMO | | 3-6, Hikarinooka, Yokosuka-shi, Kanagawa, 239-8536, Japan |  | | yamadaakira@nttdocomo.com |
| Fujio Watanabe | 3240 Hillview Ave, Palo Alto, CA 94304 |  | | watanabe@docomoinnovations.com |
| Haralabos Papadopoulos |  |  | | hpapadopoulos@docomoinnovations.com |
| Phillip Barber | Huawei | | The Lone Star State, TX |  | | pbarber@broadbandmobiletech.com |
| Peter Loc |  |  | | peterloc@iwirelesstech.com |
| Le Liu | F1-17, Huawei Base, Bantian, Shenzhen | -18601656605 | | liule@huawei.com |
| Jun Luo | 5B-N8, No.2222 Xinjinqiao Road, Pudong, Shanghai |  | | jun.l@huawei.com |
| Yi Luo | F1-17, Huawei Base, Bantian, Shenzhen | -18665890950 | | Roy.luoyi@huawei.com |
| Yingpei Lin | 5B-N8, No.2222 Xinjinqiao Road, Pudong, Shanghai |  | | linyingpei@huawei.com |
| Jiyong Pang | 5B-N8, No.2222 Xinjinqiao Road, Pudong, Shanghai |  | | pangjiyong@huawei.com |
| Zhigang Rong | 10180 Telesis Court, Suite 365, San Diego, CA  92121 NA |  | | zhigang.rong@huawei.com |
| Rob Sun | 303 Terry Fox, Suite 400 Kanata, Ottawa, Canada |  | | Rob.Sun@huawei.com |
| David X. Yang | F1-17, Huawei Base, Bantian, Shenzhen |  | | david.yangxun@huawei.com |
| Yunsong Yang | 10180 Telesis Court, Suite 365, San Diego, CA  92121 NA |  | | yangyunsong@huawei.com |
| Laurent cariou | Orange | |  |  | | Laurent.cariou@orange.com |
| Thomas Derham |  |  | | thomas.derham@orange.com |
| Ron Porat | Broadcom | |  |  | |  |
| Nihar Jindal |  |  | |  |
| Matthew Fischer |  |  | |  |
| Sriram Venkateswaran |  |  | |  |
| Vinko Erceg |  |  | |  |
| Wookbong Lee | LG Electronics | | 19, Yangjae-daero 11gil, Seocho-gu, Seoul 137-130, Korea |  | | wookbong.lee@lge.com |
| Kiseon Ryu |  |  | | kiseon.ryu@lge.com |
| Jinyoung Chun |  |  | | jiny.chun@lge.com |
| Jinsoo Choi |  |  | | js.choi@lge.com |
| Jeongki Kim |  |  | | jeongki.kim@lge.com |
| Giwon Park |  |  | | giwon.park@lge.com |
| Dongguk Lim |  |  | | dongguk.lim@lge.com |
| Suhwook Kim |  |  | | suhwook.kim@lge.com |
| Eunsung Park |  |  | | esung.park@lge.com |
| HanGyu Cho |  |  | | hg.cho@lge.com |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |
|  | |  |  | |  |  | |

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.

# Revision history

|  |  |  |
| --- | --- | --- |
| Revision | Date | Changes |
| 0 | November 3, 2014 | Initial draft |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# 1 Definitions

# 2 Abbreviations and acronyms

HE High Efficiency

UL Uplink

DL Dowlink

OFDMA Orthogonal Frequency-Division Multiple Access

# 3 High Efficiency (HE) Physical Layer

This section describes the functional blocks in the physical layer.

# 4 Multi-user (MU) features

This section describes MU related features. MU features include UL and DL OFDMA as well as UL and DL MU-MIMO.

# 5 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.

# References: