IEEE P802.11
Wireless LANs

|  |
| --- |
| Comment Resolution - SA1 8000s – Part 2 |
| Date: 2022-07-06 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Christian Berger | NXP | 350 Holger Way, San Jose, CA |  | christian.berger@nxp.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

Abstract

This submission proposes and edit to the comment resolution of CIDs; as part of SA1, changes are relative to Draft 5.0

Revisions:

Interpretation of a Motion to Adopt

A motion to approve this submission means that the editing instructions and any changed or added material are actioned in the TGax Draft. This introduction is not part of the adopted material.

***Editing instructions formatted like this are intended to be copied into the TGaz Draft (i.e. they are instructions to the 802.11 editor on how to merge the text with the baseline documents).***

***TGaz Editor: Editing instructions preceded by “TGaz Editor” are instructions to the TGaz editor to modify existing material in the TGaz draft. As a result of adopting the changes, the TGaz editor will execute the instructions rather than copy them to the TGaz Draft.***

**The text preceded by “Discussion” is not part of the adopted changes.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **P.L** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***TGaz Editor: Change the following paragraphs on page 79 at line 1 as follows***

* + - * 1. 27.3.18a.4 Construction of a secure HE-LTF

The Secure HE-LTF is largely like the HE-LTF defined in 27.3.11.10 (HE-LTF), the main differences are as follows: **(#3215, #3354, #3911, #3920, #4018**, #**5217)**

* The HE-LTF sequence is replaced by the randomized LTF sequence described in [[27.3.18a.3](#H27o3o18ao3)](#H27o3o18c) (Generation of Randomized LTF Sequence).
* The conventional GI is replaced by a zero power GI.
* There are no single stream pilot subcarriers in the secure HE-LTFs, all subcarriers are mapped using the matrix. (#**1342**)
* No CSD is applied to the space-time streams.
* Each spatial stream has a per stream pseudorandom and deterministic phase rotation applied to all the subcarriers.
* A frequency domain flat top window is applied to the secure HE-LTF when configured.

The construction of the k-th Secure HE-LTF symbol is as follows:

1. Sequence generation: Construct the k-th randomized HE-LTF sequence in frequency domain over the bandwidth indicated by CH\_BANDWIDTH as described in [[27.3.18a.3](#H27o3o18ao3)](#H27o3o18c) (Generation of a randomized secure HE-LTF sequence).
2. Apply per spatial stream phase rotation: Generate the pseudorandom phase rotation for each spatial stream. Apply the pseudorandom phase rotation along with the deterministic phase rotation to the spatial streams as described in [27.3.18a.5](#H27o3o18ao5) (Pseudorandom and deterministic per spatial stream phase rotations).

matrix mapping: Apply the matrix to all tones of the secure HE-LTF sequence. (#**1342**)