IEEE P802.11
Wireless LANs

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| [The Comment resolution for 32.3.8.3.5] |
| Date: 2020-01-11 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Dongguk Lim | LG Electronics | 19, Yangjae-Daero 11 gil, Seoch-gu, Seoul, Korea |  | dongguk.lim@lge.com |
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Abstract

This submission proposes resolutions for following 2 CIDs: 1084 and 1820

Revisions:

* Rev 0: Initial version of the document.

## CID 1084 and 1820

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Clause** | **Comment** | **Proposed Change** | **Resolution** |
| 1084 | 68.62 | 32.3.8.3.5 | Don't understand the note. 10 MHz NGV-STF doesn't need per 10Mhz phase rotation. For 20MHz NGV-STF, if using the VHT 40MHz STF seqeunce, why is additional per 10MHz rotation needed | as in comment | Rejected,  |
| 1820 | 69.3 | 32.3.8.3.5 | Nsts is not defined with no STBC supported | Nsts should be replaced with Nss in Equatoin 32-16 | Accepted TGbd editor makes the chages according to this document 21-11/0027r0  |

Discussion for CID #1084

11bd supports both 10MHz transmission and 20MHz transmission. And for 10MHz and 20MHz transmission, we have agreed to reuse each VHT-STF sequence defined for 20MHz and 40MHz transmission in 11ac for NGV-STF, respectively. In addition, we have also agreed to reuse the value of phase rotation defined for 20MHz and 40MHz in 11ac (refer the eq(21-14) and eq(21-15) ) for 10MHz NGV PPDU transmission and 20MHz NGV PPDU transmission, respectively. And, the phase rotation is applied to each 10MHz subchannel because 10MHz is a basic unit of NGV transmission.

Since the equation (32-14) and (32-15) indicate the frequency domain sequence for 10MHz and 20MHz transmission, respectively, these sequence does not include the phase rotation. So, for the indication of this, this Note was used.

**Propose :**

***TGbd editor: please modify the equation(32-16) as follows***

$r\_{NGV-STF}^{\left(i\_{TX}\right)}\left(t\right)=\frac{1}{\sqrt{N\_{STS}N\_{NGV-STF}^{Tone}}}w\_{T\_{NGV-STF}}(t)\sum\_{k=-N\_{SR}}^{N\_{SR}}\sum\_{m=1}^{N\_{STS}}\left(\begin{matrix}\left[Q\_{k}\right]\_{i\_{TX},m}γ\_{k,BW}NGVS\_{k}\\ ∙exp⁡(j2πk)∆\_{F,NGV}(t-T\_{CS,NGV}(m))\end{matrix}\right)$ (32-16) (#1820, #1114)

**References:**

**[1] 802.11bd D1.0**