IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 802.11  [TGaz SA1 Group CR Part 1]  (relative to P802.11az/D4.0) | | | | |
| Date: 2022-01-19 | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | Email |
| Jonathan Segev | Intel Corporation | 2200 Mission College Blvd |  | jonathan.segev@intel.com |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

**Abstract**

This submission contains resolutions for CIDs 7005, 7016, 7017, 7019, 7020, 7034, 7040, 7043 (total of 8).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 7005 | 86.25 |  | Review sentence and fix typo | than->that? | **Revise**.  Agree with commenter.  TGaz editor make changes as shown below in  <https://mentor.ieee.org/802.11/dcn/22/11-22-0128-00-00az-TGaz-SA1-Group-CR-part1.docx> |

**CID 7005 Resolution:**

**TGaz editor make changes to P802.11az D4.0 P.20 L.22 as follows:**TGaz editor change P.86L.25 as show from:  
If the ISTA PPDU that enabled AOD contained EDMG TRN-T subfields, then the AWV ID field contains the AWV ID

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 7016 | 247.8 |  | Review sentence and fix typo | deterministic perdpatial-> deterministic per spatial | **Revised**.  TGaz Editor change 27.3.1.18a.5 heading to "Pseudorandom and deterministic per spatial stream phase rotations" |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 7017 | 20.22 | 3.2 | The definition of Null-SAC-HE-LTF is not clear at all; even though I'm familiar with the concept I found it very hard to parse this text (it mentions all the possible places where it may be used, why?). | Either remove this defition or reformulate to make it more precise (and concise) | **Revise**.  Agree with commenter.  TGaz editor make changes as shown below in  <https://mentor.ieee.org/802.11/dcn/22/11-22-0128-00-00az-TGaz-SA1-Group-CR-part1.docx> |

**CID 7017 Resolution:**

**TGaz editor make changes to P802.11az D4.0 P.20 L.22 as follows:**An HE-LTF present in an initiating STA (ISTA) to a responding STA (RSTA) null data PPDU (NDP), or RSTA to ISTA NDP in the Ranging frame exchange, resulting from a mismatch of sequence authentication code (SAC) subfield in the STA Info field of a Ranging NDP Announcement frame, or the SAC subfield in the Trigger Dependent User Info field in the Ranging Secure Sounding Trigger frame, with either the value of the Validation SAC subfield (#5449) in the Secure LTF Parameters field in the last transmitted Fine Timing Measurement frame, or the last transmitted Location Measurement Report frame to the ISTA, or is equal to 0 (#3124).

An HE-LTF present in an initiating STA (ISTA) to a responding STA (RSTA) null data PPDU (NDP), or RSTA to ISTA NDP in the Ranging frame exchange, ~~where~~ resulting from a mismatch of ~~the~~ sequence authentication code (SAC) subfield in the STA Info field of a Ranging NDP Announcement frame, or the SAC subfield in the Trigger Dependent User Info field in the Ranging Secure Sounding Trigger frame, with ~~does not match~~ either the value of the Validation SAC subfield (#5449) in the Secure LTF Parameters field in the last transmitted Fine Timing Measurement frame, or the last transmitted Location Measurement Report frame to the ISTA, or is equal to 0 (#3124).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **CID** | **Page/**  **Line** | **Clause** | **Comment** | **Proposed change** | **Resolution** |
| 7019 | 21.22 | 3.2 | Ranging NDP: A Ranging null data PPDU (NDP) announcement - not correct, and NDP-A would be announcement, while a HE Ranging NDP would be a thing | Remove | **Revised**.  TGaz editor delete "announcement" from P.21L.22. |
| 7020 | 21.33 | 3.2 | Zero power guard interval - not sure why this needs a definition | Remove or actually include information in the defition that is not given in the name | **Revise**.  Commenter is correct, the actual definition for zero power GI is provided in P.237L.10. This is a repetition. TGaz editor delete P.21L.33 zero power GI definition. |
| 7034 | 51.35 | 9.3.1.22.10.3 | Note - detail not necessary here | Remove | **Revise.**  Agree with the commenter, normative behaviour is provided for this field in clause 11.21.6.3.4 added by submission 11-21-1841r5.  https://mentor.ieee.org/802.11/dcn/21/11-21-1841-05-00az-comment-resolution-sa1-he-ltf-repetitions.docx TGaz editor no further comment needed as this is handled by 11-21-1841r5. |
| 7040 | 73.14 | 9.4.2.29.6 | "time 0 per RSTA’s TSF" - this means to meaningfully use this feature, the ISTA has to first acquire the RSTAs TSF from a beacon or similar | It would be good to have support for this feature without the need to first acquire TSF from the beacon | **Reject.**  The comment failed to identify an error or suggest a solution to an identified problem. |
| 7043 | 75.33 | 9.4.2.29.8 | "The use of the Ranging Parameters element is described in 11.21.6 (Fine timing measurement (FTM) procedure)." - this reference is a bit general | Change reference to 11.21.6.3 or 11.21.6.3.3 | **Reject**  Ranging parameters is described in multiple subsections of the FTM procedures (11.21.6) and so the appropriate subclause would be 11.21.6 and not the subcluase specific to negotiation 11.21.6.3 or 11.21.6.3.3 |