**IEEE P802.19**

**Wireless Coexistence**

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| Project | IEEE P802.19 Wireless Coexistence WG |
| Title | **SA Initial Ballot Comment Resolution Proposal** |
| Date Submitted | October 27, 2020 |
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| Re: | Initial SA Ballot Comment resolution  |
| Abstract | Proposed resolution to comments 271478 and 271481.  |
| Purpose | Resolve comments |
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# CID 271478

Proposed resolution:

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| Disposition Status | Disposition Detail |
| Revised | 1. change 9.2 title as “Coordinated coexistence methods and recommendations”
2. add new 9.2.4 “Recommendations for centralized and cooperated/collaborated coexistence”
3. Change 9.3 title as “Distributed coexistence methods and recommendations”
4. Create new 9.3.2 as “Distributed coexistence methods”, which covers old 9.3.2 – 9.3.10
5. Add new 9.3.3 as “Recommendations for distributed coexistence”
6. Make frequency hopping as new 9.4 with title “Frequency hopping and recommendation”
7. Add a paragraph under new 9.4 as “Recommendation for frequency hopping”
8. Update references in related tables to reflect new organization
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Analysis: 9.2 describes centralized and cooperated coexistence. 9.3 describes distributed coexistence. It is better not to combine these sections.

# CID 271481

Proposed resolution: **Recommend discussion in the group.**

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| Disposition Status | Disposition Detail |
| To Be Discussed | Change 9.3.6 to: When the IEEE Std 802.11ah device/IEEE Std 802.15.4g device is aware of coexistence with IEEE Std 802.15.4g devices/ IEEE Std 802.11ah devices, IEEE 802.11ah Std devices and/or IEEE Std 802.15.4g devices shall use energy detection (ED) based CCA for channel assessment. If an IEEE Std 802.11ah device/IEEE Std 802.15.4g device detects energy above the specified threshold on its channel, the transmission time delay shall be used to mitigate interference and improve coexistence in the S1G frequency band. Detection of other S1G device is implementation dependent. Suspension duration in microseconds is also implementation dependent. Add a paragraph in 9.3.7: When an IEEE Std 802.11ah device is aware of coexistence with IEEE Std 802.15.4g devices and detects energy between IEEE Std 802.15.4g receiver sensitivity and IEEE Std 802.11ah ED threshold, it shall apply α-Fairness ED-CCA to further assess channel status. Add a paragraph in 9.3.10: When an IEEE Std 802.15.4g device detects severe interference on its channel, it shall apply hybrid CSMA/CA method to contend for channel access.  |