**IEEE P802.15**

**Wireless Specialty Networks**

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| Project | IEEE P802.15 Working Group for Wireless Specialty Networks (WSNs) |
| Title | Miscellaneous Comments, Part 2 |
| Date Submitted | 14-November-2024 |
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| Re: | Resolving comments form LB207 |
| Abstract | Proposed resolutions to CIDs  |
| Purpose | Make the world better by encouraging adoption and productive use of 802.15 standards based on accurate information |
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# Introduction

This document addresses the following comments:

Comments:

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| --- | --- | --- | --- | --- | --- |
| **CID** | **Page** | **Sub-clause** | **Line #** | **Comment** | **Proposed Change** |
| 283 | 15 | 6.6.3.3 | 25 | Why there is need for specific macEmdevImmAckAifsPeriod? The HRP-EMDEV will always use this different values regardless of mode (i.e., the high-rate pulse repetition frequency UWB PHY based enhanced modulations device will always use this) so it can be just be configured in the macSifsPeriod.  | Or is it trying to say that high-rate pulse repetition frequency UWB PHY based enhanced modulations devices sometimes use this macEmdevImmAckAifsPeriod and sometimes uses macSifsPeriod? The HRP-EMDEV is device property, not a mode inside the device. Is the HRP-EMDEV supposed to be mode for devices not a device type itself? |
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# Resolutions

## CID 283

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| 283 | 15 | 6.6.3.3 | 25 | Why there is need for specific macEmdevImmAckAifsPeriod? The HRP-EMDEV will always use this different values regardless of mode (i.e., the high-rate pulse repetition frequency UWB PHY based enhanced modulations device will always use this) so it can be just be configured in the macSifsPeriod.  | Or is it trying to say that high-rate pulse repetition frequency UWB PHY based enhanced modulations devices sometimes use this macEmdevImmAckAifsPeriod and sometimes uses macSifsPeriod? The HRP-EMDEV is device property, not a mode inside the device. Is the HRP-EMDEV supposed to be mode for devices not a device type itself? |

Recommended resolution: Revised

Resolution detail: Change

For a HRP-EMDEV sending Imm-Ack, the AIFS shall be equal to the value of the macEmdevImmAckAifsPeriod attribute in Table 8-36. The value of AIFS is equal to macSifsPeriod for all other PHYs and modes.

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While operating as an HRP-EMDEV, for Imm-Ack, the AIFS shall be equal to *macEmdevImmAckAifsPeriod* defined in Table 8-36. Otherwise when using the HRP PHY, value of AIFS is equal to macSifsPeriod.

Discussion: The comment reveals confusion between a device type, which is a set of capabilities, and the current operating mode. In 16.1 we state that an HRP-EMDEV shall *support* at least one of HRP-SDEV, HRP-ARDEV or HRP-LLDDEV. A “mode” would for example be HPRF mode. An HRP-EMDEV may operate several different modes, including as an HRP-ERDEV (BPRF) which according to the base standard would use the IFS timing as specified for “all other PHYs”.