**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | **Text for AIFS** |
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| Re: | Contribution to IEEE 802.15.4ab  |
| Abstract | This document provides draft text for Scheduling IE |
| Purpose | Support development of technical content for the draft |
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**6 MAC functional description**

**6.7 Transmission, reception, and acknowledgment**

**6.7.4.3 Acknowledgment**

If the intended recipient received a valid frame, as defined in 6.7.2, with the AR field set to request an acknowledgment, it shall generate and send an Ack frame, as defined in 6.7.2.

The AR field shall be set to no acknowledgment when using Frak as defined in 22.3.

For HRP UWB PHY, Imm-Ack shall commence AIFS after the reception of the last symbol of Data frame or MAC command. For other PHYs, t~~T~~he transmission of an Ack frame in a nonbeacon-enabled PAN or in the CFP shall commence AIFS after the reception of the last symbol of the Data frame or MAC command. The transmission of an Ack frame in the CAP shall commence either AIFS after the reception of the last symbol of the Data frame or MAC command or at a backoff period boundary. In the latter case, the transmission of an Ack frame shall commence between AIFS and (AIFS + *aUnitBackoffPeriod*) after the reception of the last symbol of the Data frame or MAC command. The value of AIFS is 1 ms for the SUN PHYs, LECIM PHYs, or TVWS PHYs. The value of AIFS is equal to *macHrpUwbAifsPeriod* for the HRP UWB PHY. Support for the default value (64 us) for *macHrpUwbAifsPeriod* is mandatory and support for the other values (16, 32 us) is optional. The value of AIFS is equal to *macSifsPeriod* for all other PHYs.

**…**

**8 MAC services**

**8.4 MAC constants and PIB attributes**

**8.4.3 MAC PIB attributes**

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***Revise Table 8-94 as follows:***

Table 8-94—MAC PIB attributes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Attribute** | **Type** | **Range** | **Description** | **Default** |
| … | … | … | … | … |
| *macLifsPeriod* | Integer | As defined in 10.~~1.3.13~~4 | The minimum time forming a LIFS period. | PHY dependent |
| *macSifsPeriod* | Integer | As defined in 10.~~1.3.13~~4 | The minimum time forming a SIFS period. | PHY dependent |
| *macHrpUwbAifsPeriod* | Integer | {16, 32, 64} | The minimum time forming a AIFS period for HRP UWB PHY. | 64 |
| … | … | … | … | … |

…