**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Wireless Specialty Networks (WSNs) | |
| Title | **Acknowledgment Sequence Chart** | |
| Date Submitted | 17 May 2022 | |
| Source | Bober, Kai Lennert Fraunhofer HHI | Voice: - Fax: - E-mail: bober@ieee.org |
| Re: |  | |
| Abstract | This document contains a sequence chart, illustrating the acknowledgment and retransmission procedure | |
| Purpose | Aid comment resolution | |
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**Legend:**

* Arial size 13 indicates subsections for individual comments
* Red underlined text needs to be adapted during the comment implementation (e.g., because it is a reference).
* Bold italic text is an instruction to the editor to implement the text

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Add the following figures under 6.7.1:



**Figure X**: Acknowledgment and retransmission sequence chart for a successful transmission



**Figure Y**: Acknowledgment and retransmission sequence chart for a failed transmission and successful retransmission

Add the following paragraph at the end of 6.7.1:

Figure X depicts a frame exchange between two devices A and B, where device A transmits an MPDU with sequence number one to device B. The successful reception of that MPDU is acknowledged by device B in its next GTS. Device A subsequently removes the MPDU from its buffer.

Figure Y depicts a failed MPDU transfer with sequence number two. The subsequent MPDU with sequence number three is successful. Device B does not send an acknowledgment for sequence number two to device A. After the timeout, device A retransmits the MPDU with sequence number two. The retransmission is successful and device B acknowledges sequence numbers two and three through a block ACK.