IEEE P802.11
Wireless LANs

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| Comment Collection 09 MAC CIDs (Comment Resolutions for CC09) |
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Abstract

This document provides resolutions for CIDs: 58, 107, 916, 917

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| **CID** | **Clause**  | **Page** | **Line** | **Resn Status** | **Comment** | **Proposed Change** | **Resolution** |
| 58 | 9.32h | 145 | 20 | V | Details of the UL synch procedure are not defined. Specifically should the STA access SIFS time after the synch frame. What if the STA is unresponsive. Should the AP send a CF-End after PIFS time? If Yes this forces the STA to respond in SIFS time. If not the STA can respond at different times but with other consequances. | The simples way is to refer to Reverse direction protocol description in section 9.25 and add support for NDP CTS synch frame as the reverse direction grant frame. | Revised – agree in principle on the comment that the details of the UL synch procedure is not define. Refer to changes in doc.: IEEE 802.11-13/0783r0 under CID 917 heading. |
| 107 | 9.32h.1 | 144 | 63 | J | In the sentence "When an AP receives a Sync frame from a STA with the Time Slot Protection Request field set to 1, the AP shall protect a time slot that is assigned for the STA in a RAW or a TWT time of the STA with NAV-setting frame exchanges." the signaling for the NAV setting exchanges is missing. | Please indicate the necessary signaling | Rejected – Since any frame can be used as a synch frame and there are many ways to set the NAV, it is unneccessry to indicate all possible signalings for the NAV setting. |
| 917 | 9.32h.1 | 145 | 18 | V | How to use NDP CTS frame as a synch frame is not clear. | Modify the sentence from "The UL-Synch capable AP should use the NDP CTS frame as a synch frame." to "The UL-Synch capable AP should use the NDP CTS frame as a synch frame. When STA receives the NDP CTS frame, STAs identified in RA only are allowed to access the channel during the time defined in Duration field.". | Revised – agree in principle. Refer to changes in doc.: IEEE 802.11-13/0783r0 under CID 917 heading. |

**Proposed changes:**

**9.32h.1 Synch frame transmission procedure for uplink traffic**

***Insert the following paragraph after P145L18 as follows:***

When a STA receives an NDP CTS frame with the RA Address/Partial BSSID field is set to the S1G partial AID of the STA from the UL-Synch capable AP with which the STA is associated, the STA shall transmit a data frame to the AP a SIFS after the reception of the NDP CTS frame. When a STA receives an NDP CTS frame with the RA Address/Partial BSSID field not equal to the S1G partial AID of the STA, the STA shall follow the NAV setting rules defined in 9.3.2.4 (Setting and resetting the NAV). After transmitting the NDP CTS frame, the AP shall wait for an ACKTimeout interval (as defined in 9.3.2.8), starting at the PHY-TXEND.confirm primitive. If a PHY-RXSTART.indication primitive does not occur during the ACKTimeout interval, the AP may transmit a CF-End frame to reset the NAV provided that the remaining duration is long enough to transmit this frame.

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| 916 | 9.32h.1 | 145 | 17 | A | AP should not send a synch frame within a RAW if cross-slot boundary transmission is not allowed. | Add the following text after 3rd paragraph in page 145: "For a STA requesting for the sync frame transmission with Time Slot Protection Request field set to 0, AP should not send a synch frame at each slot boundary within a RAW period if Cross-Slot Boundary transmission is not allowed within the RAW." | Accepted – Since a packet transmission cannot cross the slot boundary in a RAW when the Cross-Slot Boundary bit is set to 1, in this case a synch frame transmission at the beginning of a slot is not necessary. Refer to changes in doc.: IEEE 802.11-13/0783r0 under CID 916 heading. |

**Proposed changes:**

**9.32h.1 Synch frame transmission procedure for uplink traffic**

***Insert the following paragraph after P145L16 as follows:***

For a STA requesting for the sync frame transmission with Time Slot Protection Request field set to 0, the AP should not send a synch frame at each slot boundary within a RAW period if Cross-Slot Boundary transmission is not allowed within the RAW.

**References:**