
IEEE P802.11
Wireless LANs

MMAC report for PHY parameter changes

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We appreciate for sending a new draft regarding to 5GHz PHY. We had Ethernet Wireless Access Working Group (EWA WG) of MMAC-PC meeting on 23rd of February. In the discussion, we basically accepted changes resulted from the last IEEE802.11 interim meeting.

In the letter, IEEE802.11a reported changes regarding to 1)number of subcarriers, 2)signaling mechanism and 3)mandatory rates. Responidng to the results of them, I would like to report the results of the discussion in EWA WG of MMAC-PC regarding to these issues, as following.

- 1) We have also decided that instead of 3 pilot subcarriers, which replace 3 data carrying subcarriers, we shall have 4 pilot subcarriers in addition to 48 data-carrying subcarriers, bringing the overall number of subcarriers to 52. The training sequence of the preamble was modified to train all the 52 subcarriers, instead of 48.
- 2) We have also changed the data rate signaling mechanism so that both the rate and the length of the packet are encoded in a single OFDM symbol at 6 Mbit/s.
- 3) We also agree on the mandatory issue resulted by IEEE802.11a of which they decided to support 6, 12 and 24Mbps as a mandatory rates. We do not have any inclusion of a rate to add as the set of the mandatory rate.

The MMAC Ethernet Wireless Access WG again thanks the IEEE802.11 TGa for its activities of standardization.