

WLAN 802.11n Tests and Measurements for Optimum Network Planning

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Abstract

Our purpose was to create measurement setups in order to test the limits of 802.11n Draft 2.0. We wanted to determine the coverage area of an 802.11n Draft 2.0 AP, in a real office environment, and to monitor the actual throughput it can deliver. Further on we wanted to see the respect in which 802.11n Draft 2.0 is susceptible to interferers and to which extent it is affected. The more general goal was to design an 802.11n wireless network taking into consideration the imminent issues of the real indoor environment (structure materials, interferers, etc.).