

Influence of Frame Size and Inter-frame Delay Variation on Signal Level, Retry Rate and Throughput in 802.11g

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Abstract

The present paper emphasizes the need for a thorough site survey, both physical and RF, prior to WLAN deployment in the area to be covered. The prerequisites of a balanced survey, the basic types of site survey and the main features of AirMagnet Site Survey will be the main theoretical points. The practical part consists in real life environment measurements performed on the 4th floor of the Observator lab building by installing a scenario in active/associated and passive survey mode focusing on the variation of the frame size and delay time. These parameters can prove crucial when setting up an AP and can make the difference between a working and a faulty WLAN network.