

Design and configuration of a WiFi network system for a building

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Abstract: In the context of the increasing demand for internet connectivity in buildings, designing and configuring an efficient Wi-Fi network system has become a critical issue. This study aims to develop an optimal solution for Wi-Fi signal optimization within a building through requirement surveys, technology analysis, and pilot deployment. The research methodology includes both theoretical studies on signal transmission and experiments to evaluate the performance of the Wi-Fi network system. The expected results will provide a reference solution for similar buildings and contribute to the development of wireless network technology in built environments.

Keywords: Wi-Fi network system, Building, Requirement survey, Signal transmission