

Design of a Single DAS System for the Judicial Academy Building Complex

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Abstract: This topic focuses on designing and deploying a Single Distributed Antenna System (Single DAS) for the building complex of the Judicial Academy, aiming to address weak mobile signal issues in a multi-wall environment. The objective is to improve mobile network service quality by optimizing the existing broadcast infrastructure. The research method combines theory with experimentation to evaluate system performance and the feasibility of the proposed solution. The expected outcomes of this topic not only provide a practical solution for the Judicial Academy but also contribute to the development of mobile network infrastructure in complex buildings, enhancing accessibility and user experience.

Keywords: Single DAS, Mobile signal, Judicial Academy, Multi-wall environment, Service quality improvement