

Building a VoIP application on a WiFi network for Dong Hy Hospital - Thai Nguyen

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Abstract: In the modern healthcare context, the use of VoIP technology over Wi-Fi networks in hospitals to enhance operational efficiency and service quality is considered an urgent need. This study aims to build a VoIP system on a Wi-Fi network platform at Dong Hy Hospital - Thai Nguyen, providing a solution for high-quality voice communication between clinics, treatment areas, and patients. Through theoretical and experimental research, the study will apply modern VoIP design principles to deploy applications on the hospital's Wi-Fi network environment, while evaluating usage effectiveness and integration capability with the overall healthcare system. The expected results will not only provide a technical solution but also represent a breakthrough in applying new technology to practical operations at healthcare facilities.

Keywords: VoIP, Wi-Fi networks, hospitals, voice communication, technical applications