

# **Research on VOIP technology and simulation of delay in WLAN networks**

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**Abstract:** In the context of increasing demand for multimedia communication over wireless networks, this topic focuses on researching VoIP technology and evaluating latency in WLAN networks. The objective is to explore effective VoIP deployment methods on wireless network platforms and analyze factors causing data transmission delays. The approach combines both theoretical and experimental methods to collect and analyze data, aiming to develop optimal solutions for providing voice services over wireless networks. Expected outcomes include specific recommendations for WLAN design and management to improve VoIP service quality.

**Keywords:** VoIP, latency, WLAN, technology research, wireless communication