

Research on SIP protocol in VoIP networks

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Abstract: This topic aims to study and deeply analyze the Session Initiation Protocol (SIP) in Voice over Internet Protocol (VoIP) networks. The context for selecting this topic is based on the strong growth of VoIP in enterprise and personal applications, while emphasizing the issue of session management in multimedia transmission environments. The objective is to develop an understanding of how SIP operates as well as to examine potential applications to enhance VoIP communication efficiency. The research method is based on a combination of literature review and experimentation, aiming to provide feasible solutions for VoIP network developers and managers. The significance of this topic lies in its contribution to the knowledge base on SIP and its potential for widespread application in the field of multimedia transmission.

Keywords: SIP protocol, VoIP network, Multimedia transmission