

Research on IPSEC security in 4G/LTE mobile communication networks

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Abstract: In the context of the strong development of 4G/LTE mobile technology, ensuring the safety and security of data transmission protocols has become more urgent than ever. This topic focuses on researching IPSEC security in mobile communication networks to address the issue of protecting sensitive information in an unstable mobile environment. The objective of the research is to build and deploy an effective IPSEC system for 4G/LTE networks by analyzing and evaluating current challenges. The method combines theoretical research and experimentation to provide a comprehensive solution. The expected results of the topic not only contribute to the field of mobile security but also open up new development directions in the application of IPSEC technology.

Keywords: IPSEC security, 4G/LTE mobile information network, Theoretical and experimental research