

Research on 4G/LTE mobile networks and the method of transitioning from IPv4 to IPv6.

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Abstract: In the modern context, the necessity of maintaining performance and security in mobile networks has driven the demand for transitioning from IPv4 to IPv6. This topic aims to study the structure and operation of 4G/LTE networks, while proposing a method for transitioning between the two current IP protocols. The approach includes theoretical analysis combined with experimentation. The objective of the project is to provide an efficient and secure IPv4-to-IPv6 transition solution for mobile network operators, contributing to the sustainable development of network technology.

Keywords: 4G/LTE mobile network, IPv4, IPv6, IP protocol conversion, Network security