

Research and evaluation of SIP protocol in NGN network using NS2 software

Pham Van Tam

Abstract: This is a project aimed at researching and evaluating the Session Initiation Protocol (SIP) in Next Generation Network (NGN) environments. The context of the topic is set by the importance of SIP in establishing, managing, and terminating voice calls or multimedia transmissions. The objective is to determine the efficiency and reliability of the SIP protocol through experimental deployment on a network model built using NS2 software. The research method combines theoretical evaluation with practical experiments, aiming to contribute to the understanding of SIP's applicability in NGN environments and provide useful solutions for telecommunications network developers.

Keywords: SIP, Next Generation Network (NGN), NS2, protocol evaluation, network research