

Optimization of GSM mobile information network – by Viettel in Thai Nguyen city area

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Abstract: In the context of rapidly developing mobile technology, optimizing the GSM network in the Thai Nguyen city area is necessary to improve service quality and meet the surge in usage demand. This thesis aims to study technical solutions to enhance communication performance in Viettel's GSM network, while also conducting experimental deployment at a specific location. Through this, the thesis will identify suitable approaches for network optimization and provide suggestions on how to upgrade the GSM system to better meet user needs. The research results are expected to contribute significantly to improving mobile service quality in this area.

Keywords: GSM optimization, Viettel, Thai Nguyen City, Network performance improvement, Mobile technology experimentation