

# Abstract

Modern telecommunication networks use the Signaling System No. 7 (SS7) for transport of signaling information. The SS7 system provides for signaling over circuit-switched networks. However, packet-switched IP networks are expected to be the technology to replace circuit-switched networks in the future. When this happens, SS7 should still be able to provide the same services that it was developed for.

This thesis proposes a prototype for a new lightweight protocol, which utilizes the advances in the IP technology and makes the convergence to the IP networks profitable. With a regard to the delimitations made within this project, the accomplished prototype is believed to constitute a solid base for future work.