

Abstract

This document describes the evaluation and prototyping of a subset of the IETF SUA draft 05. The intended readers of this document are developers within the SS7 and IP environments. SUA is an adaptation layer designed, together with SCTP, to partially emulate SCCP. This enables already existing applications and application layers to be moved from the SS7 domain to the IP domain. The focus of this project is on the connectionless parts of SUA, the connection-oriented parts are omitted. Furthermore the document describes the environments, the IP domain and the SS7 domain, within the framework of which SUA works and the stack layers, SCCP and SCTP, that SUA communicates with. Also described are the design choices we made regarding the functions, modules and the complete prototype with explanations about why we choose the particular design solutions. The implementation and testing, as well as the design, are described in increasing steps. Our results, from the implementation, indicate that at least the connectionless parts of the SUA-draft are stable enough to become a proposed standard.