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On Design of Resilient Internet Communication Networks

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Abstract

This work analysis approaches on providing resilience of a network using the CAN algorithm and presents the manner in which it can be applied to an internet communications protocol, such as the SIP (Session Initiation Protocol).

The design of resilient IP telephony P2P-SIP network is analysed. The architecture provides reliability and scalability, inherent in P2P systems, and, additionally, interoperability with existing SIP infrastructure.

Keywords: Resilience, Security, Internet, Communication networks, Peer-to-peer networks, SIP protocol.

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