VoIP (Voice over Internet Protocol) enables user to make calls through internet. VoIP system is popular because of its rich features. VoIP uses Session Initiation Protocol for initialization, termination and tearing down of a session between two communicating entities. Due to its rich features VoIP has received wide acceptance and becoming one of the mainstreams in communication network, increased use of this includes scams and security concerns. Vulnerabilities in the SIP protocol enable hackers to inject control signals and hijack calls. Hence assuring the identities of the communicating entities is essential. Many authentication schemes were proposed for SIP from time to time. Strong authentication scheme can identify the potential threats. This paper proposes the authentication scheme between two end points in order to overcome the limitations of the existing authentication scheme.

- Qi Qui. Study of Digest Authentication, December 2003

**Index Terms**

Computer Science

Security
Detection and Prevention Mechanism on Call Hijacking in VoIP System

Keywords

VoIP  SIP  Challenge-Response  Authentication  Hash Digest and Sequential Count authentication