Abstract

This paper highlights the enhancement in security in VoIP by using ECC. The proposed protocol to enhance security comprises of two phases key generation, Secure transmission. Both phases included ECC which can be proved to be practically secure against most of the popular attacks. The security analysis of the proposed protocol is also given and protocol mathematically to be secure.

References

and Reviews) 37.6 (2007): 1152-1162.


**Index Terms**

Computer Science

Security

**Keywords**

Elliptic Curve Cryptography(ECC), Mobile Station International Subscriber Directory Number(MSISDN), Voice over Internet Protocol(VoIP), Session Initialization Protocol(SIP), Real-time Transport Protocol(RTP), Elliptic curve Diffie Hellman Problem(ECDHP), Diffie Hellman Problem(DHP).