

Communication protocols based on CAAA attributes

Natarajan Vijayarangan *

Innovation labs

Tata Consultancy Services Limited (TCS)

Chennai, India

Abstract

We have introduced a system and method of extensible authentication protocols (EAPs) based on ECC and SKE with a permutation technique evolved. The permutation in our EAPs is a process of cubing a random number w.r.to a prime ($p = 2 \text{ mod } 3$). These EAPs are compatible with 3G and 4G networks and no certificates exchanged during the communication. Further, they play an important role to fulfill CAAA issues.

Keywords:- *Symmetric Key Encryption, Public Key Cryptography, Extensible Authentication Protocols, Point-to-Point protocol and Pseudo random numbers.*