Abstract

According to the recent work done in the area of remote user authentication, biometrics based password authentication using smart card is the most interesting and upcoming technology. Many protocols has been designed aiming to combine three authentication factors efficiently in order secure the process of remote user authentication, but failed to do so. One of the many possible reasons is biometrics comparison. Basically, biometric is used to uniquely identify the user. It has been observed that, the biometrics comparison during the verification is done using its hash value, which is infeasible due to its avalanche effect property. Moreover, impersonation, server spoofing, man-in-the-middle, denial-of-service etc attacks needs to handle properly to guarantee the security of the protocol. The main objective of this paper is to focus on biometrics comparison and making the protocol immune to above mentioned attacks.

References

- Min-Shiang Hwang and Li-Hua Li. A new remote user authentication scheme using
A Novel Secure Remote User Authentication Protocol using Three Factors


Index Terms

Computer Science Security

Keywords

Remote users Authentication Passwords Biometrics Smart Cards Three factor Authentication.