Abstract

Nowadays most of the confidential works are carried under surveillance like Bank affairs, Research works, Enterprise projects etc. In this case, there is threat of capturing the confidential password of a user through surveillance cameras. These passwords can also be captured through human surveillance (i.e. keen human observation) as well as a malicious program that run in background without user’s knowledge. Serious problem arises if these confidential credentials go into wrong hands. Just typing the password in form of hidden characters does not avoid this problem. For this purpose, a security system has to be used that will provide privacy to passwords even under surveillance. Time based dynamic password system (TBDP) provides privacy to the user’s login credentials by accepting varying password time to time. Password at particular time can’t be accepted later. Users will be given privilege to define their own transformation logic using clock values that generates a time dependant password from a constant string (i.e. basic password declared by user). Here, transformation logic is based on variable insertion technique. At the time of login, users estimate their current password by collaborating the basic password and transformation logic defined over it and tries to login the system with those estimated credentials. Simultaneously, authentication system generates time varying password from Basic password and Transformation logic defined by user. Access is granted if the credentials are found to be valid.
at that time. In this way, this password system provides privacy to login credentials even under surveillance.

References


Index Terms

Computer Science Security

Keywords

Time Based Dynamic Password (TBDP) Transformation Logic Variable Insertion Technique