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### **RESEARCH ARTICLE**

# **IMPROVING THE WINDOWS PASSWORD POLICIES USING MOBILE BLUETOOTH AND RIJNDAEL ENCRYPTION**

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### **ABSTRACT**

Security in computers has been the core issue when it comes to the operation of computer systems. To safeguard data, organizations impose password policies that in way ascertain that there is a degree of security on files that may be sensitive in nature. These policies differ in different organizations and the effectiveness depends on the success of those password policies. A successful policy mainly depends on the behavior of the users and how they follow it to the book. This research focuses on this aspect and will try to address the end user acceptance and will attempt to improve these policies by introducing the use of mobile phone tokens using the Bluetooth and Rijndael encryption. This would ensure that the users get authenticated by the windows password login and then further authenticated to gain access to their most private files using their Bluetooth enabled mobile phones. In this way we can have less frequent password changes or have less strict policies that the users are resistant to and they can and provide an extra feature that would allow for an automated environment using the proximity sensor to verify if your mobile token is in range or not. This paper will try to assess whether an implementation of this system will provide extra security to files and also improve password policies.

Keywords: - Security; Bluetooth; Mobile phone; Rijndael; Password

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