



RESEARCH ARTICLE

A Lookup Table Based Secure Cryptographic SMS Communication on Android Environment

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Abstract— Information security is one of the major concerns while transferring some information publicly. With the advancement in the communication medium there are chances of more threats in the communication system. In this work, we have focused on the threats associated with SMS (Short Message Service) Communication in android environment. The work is about to define an effective symmetric cryptographic system that can encode the SMS text on sender side by using the minimum memory resources. As of the presence of limited resources on mobile phone, this light weight cryptography solution provides the secure communication by using dynamic and the lookup table. The work is implemented on Android 4.0 environments and tested on android mobile. The obtained results show the reliable communication on mobile devices.

Key Terms: - Android; Cryptography; Lookup Table; SMS; Symmetric

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