A Hybrid Encryption Algorithm Based on Triple DES and RSA

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ABSTRACT: - In this paper, we propose the hybrid encryption algorithm based on Triple DES and RSA, to enhance the security of data transmission in wireless communication. The currently used encryption algorithm employed by the wireless devices to protect the confidentiality of data during transport between two or more devices may be broken under certain conditions. In the proposed hybrid encryption algorithm, Triple DES algorithm is used for data transmission because of its higher efficiency in block encryption, and RSA algorithm is used for the encryption of the key of the Triple DES because of its management advantages in key cipher. Under the dual protection with the Triple DES algorithm and the RSA algorithm, the data transmission will be more secure. Meanwhile, it is clear that the procedure of the entire encryption is still simple and efficient as ever.

Key Words:- Bluetooth,E0 key stream, Hybrid encryption algorithm, Data transmission