

Implementation of Secure Data Transfer by using Symmetric (AES) and Asymmetric (RSA) with Digital Signature

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Abstract

Nowadays, Internet and network applications are growing very fast, so critical information is needed to protect. Crypto algorithms play a main role in information security systems. In this paper, we present secure data transfer by using hybrid cryptosystem. It used cryptography for confidentiality, authenticity and integrity of information during transmission. This system describes symmetric, asymmetric and digital signature. This system implements a secure information transfer between any two parties so that they can securely transmit and access critical information. To implement this system AES, RSA and digital signature with MD-5 algorithms are used. The implementation is written in C# using Microsoft Visual Studio 2005.