SECURE INSTANT MESSAGING SYSTEM ON PRIVATE NETWORK

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ABSTRACT

Instant Messaging (IM) is a useful communication and work collaboration tool between individuals, groups, or enterprises. Unfortunately, most IM systems lack the needed security mechanism capable of ensuring the secure communications of IM client-client and IM client-server. In order to find a solution to secure IM communications, a Secure Instant Messaging and Presence Protocol (SIMPP) is proposed and implemented based on RSA cryptography. The proposed IM service is compatible with the IETF XMPP (extensible Messaging and Presence Protocol)/Jabber Standard. Open source jabbered software is revised to create a SIMPP server on the ASP.Net platform, wherein this system uses C# to create a SIMPP client on the Windows platform. IM client and IM server use open source Microsoft Visual Studio 2010 cryptographic libraries with ik-semel XMPP library.

SECURE WEB BASED FILE TRANSFERRING SYSTEM

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ABSTRACT

World Wide Web is becoming more popular for today society. Security is major issue for web data. In this system, a security system that provides secure data transferring between computers is developed. Cryptographic methods are the most popular methods for securing the data. The idea is to be secure data files and compressed files by using data encryption during transferring. The contribution is to support effective ways to protect from unauthorized gain of information. In this system, NTRU, one of the cryptographic methods, is used. Encryption and decryption process of Number Theory Research Unit (NTRU) is extremely fast and creating public/ private key pairs while providing height security level. NTRU is light weight public key cryptographic technique, which is suitable or efficient for web sites.