Abstract

Computer Business Systems and automated business transactions require robust and rigorous security measures. Public key cryptography supports security mechanisms such as confidentiality, integrity, authentication and non-repudiation. A Public Key Infrastructure (PKI) is a foundation on which other applications, systems and Network components are built.
Gatefree is a user endorsement gateway system network which is opened to public. This system can be used for controlling the campus wide open network. In this research, we implemented PKI endorsement functions for Network Users, and we enabled the certificate based endorsement via a web browser.

Reference

- “Identity-Based Cryptosystems and Signature Schemes”, Adi Shamir, Proceedings of Crypto’84.
- “Replacing the Whois Protocol”, Andrew Newton, IEEE Internet Computing, Vol.10, No.4 (July/August 2006), p.79.116

Index Terms

Computer Science
Security

Key words

PKI
Certificate

management