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,
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**Index Terms**

Computer Science  
Security

**Key words**

PKI  
Certificate

management