

SMARTOFFICE

Smartoffice is a smart card based Employee Authentication, Document security/tracking, employee identification system.

The use of smart card in an enterprise is an emerging need. Smartoffice provides a foundation for smart card based infrastructure in an organization. It achieves smart card authentication mechanism.

Most organizations today have some form of employee identification (e.g. Photo ID) and systems for various organizational functions involving interaction with employees. E.g. attendance, library, leave, access to resources etc. These systems are either manual or automated. Even in automated systems, there are no sound methods for establishing the employees' identity and controlling access to resources. For example, an organization may have sensitive information (documents, source codes etc), whose access must be controlled. Typically, such access is controlled by user id and passwords, which may not be as secure as desired.

Smartoffice is an enterprise solution, especially for an IT (Information Technology) enabled company. Our solution suggests every employee to be given a smart card that would hold his personal details. The smart card would serve as a secure computer logon key that initiates the automation of departmental management activities.

Smartoffice understands the role of every employee and accordingly gives access to the resources.

Smartoffice aims to provide a versatile Smart Card based Security Solution for organizations. The system will use Smart Card as Computer Access Logon key plus a secure storage device exploiting the card capabilities to the fullest. The application initiates automation in day-to-day Office work facilitating the various sections of the organization to interact seamlessly. The system exercises complete administrative control over the documents that are shared across project teams within the organization without compromising the freedom and flexibility of the employee.

Product Features and Benefits

Feature	Benefits
<p>Smart Card Based Authentication at workstation and server.</p> <ul style="list-style-type: none"> - User inserts smart card at server and authenticates by entering PIN - When the user logs on to the machine using the domain (NT) login, Smartoffice would ask the user to enter the PIN again. 	<p>Unauthorized access is far less likely than the usual password based authentication.</p>
<p>Document Security</p> <ul style="list-style-type: none"> - Administrator designates documents as “secure” and authorizes access to selected users. These documents are kept in a “safe” place. - Whenever user requests the document his/her authorization is checked. Optionally he may be requested to insert the smart card and enter the PIN again - Any attempt by the user to copy, rename or email the document can be tracked. 	<ul style="list-style-type: none"> - Unauthorized access of document is prevented. - Unauthorized creation of copies or emailing is tracked. Hence any attempt to send classified documents to anyone else can be tracked and action can be taken.
<p>Single Smart card is used as the main employee ID. This ID can be read and used for all company’s systems e.g. Attendance, Timesheet, Library, Leave, Canteen, etc.</p>	<p>No need to have multiple ids or cards for different systems.</p>

Technical Specification

Architecture:

- Client/Server architecture.

Hardware:

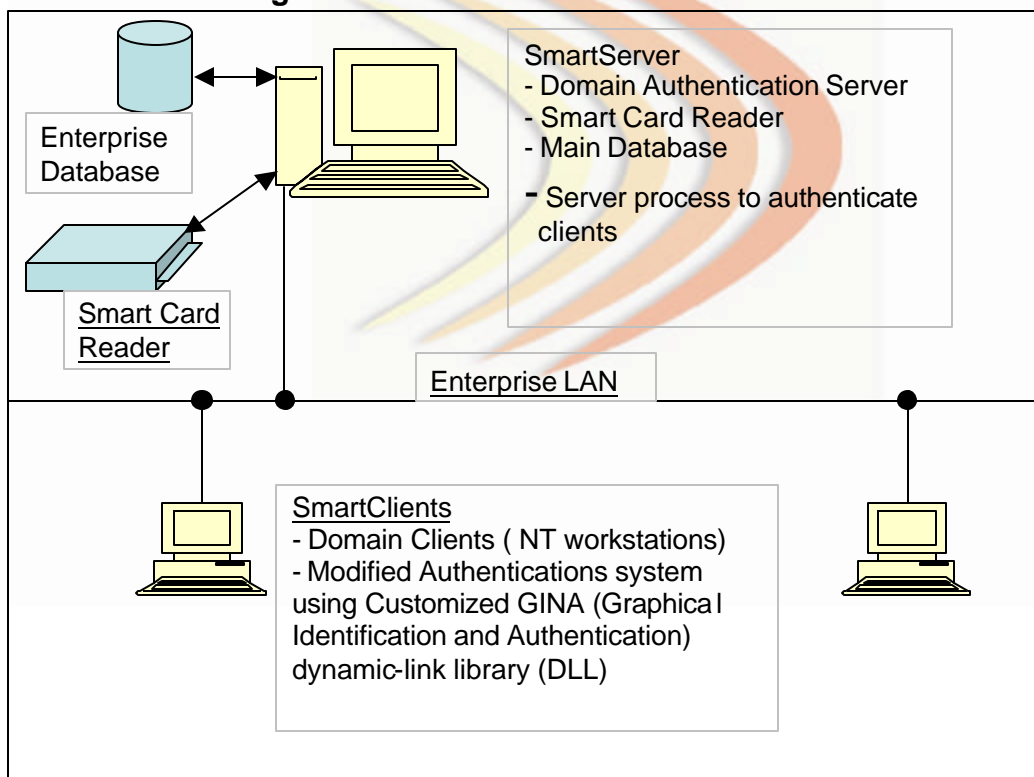
- Smart Card Reader: Schlumberger Reflex 72
- Smart Card: Schlumberger Payflex (4k or above)

Software:

- Server: Win 2000
- Client: Win NT Workstation (Part of a Domain)
- Database: Microsoft Access 2000
- Visual C++ 6.0(MFC) as Application framework

Microsoft Platform SDK for Smart Card APIs.

Architectural Diagram



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