

Multi Application Smart Card & RFID Solutions

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- ***Access Control***
- ***Transportation***
- ***e-Governance***
- ***Healthcare***
- ***Banking & Finance***
- ***Item Tracking Asset Management***
- ***Clubs, Restaurants & Food courts***
- ***Library , School, Campus Management***
- ***Loyalty Management***
- ***Smart Debit e – purse management***
- ***Inventory, Sales, Billing and Loyalty Management***
- ***Human Resource and Payroll Management***

A Digital Economy - The "Smart" Universe

As Businesses and Governments increasingly move from the physical to the electronic world, they need to have a secure mechanism to reliably identify and authenticate the users accessing data and information within their physical and IT infrastructure. The reliability of this mechanism forms the key to enhanced productivity, increased competitiveness and customized service to their user groups. Smart Cards and RFIDs are the new age information exchange mechanisms that cater to the above needs of businesses and Governments and also have an added advantage of being portable, reusable and customizable and offer benefits such as reduced paperwork, and pilferage making them strong business enablers for Defence, Government and Large Enterprises.

Smart Cards - The World of "Options" for Secure Data Transfer

Smart Card is a credit card sized plastic card embedded with either a microprocessor and a memory chip or only a memory chip with nonprogrammable logic. The ability of the microprocessor to exchange information and carry out mathematical and logical iterations of data provides the much vouched "smartness" to the Smart Card. Smart Cards are of four types viz. Contact cards (chip on the card, information exchanged is through physical contact of the card and the card reader), Contactless cards (chip inside the cards, information exchanged is based on principles of radio frequency by flashing the card in front of the card reader), Hybrid cards (chip on and inside the card, information exchange is by both physical contact with the card reader as well as by flashing the card in front of the card reader) and Memory cards (plain and secured, information exchange is on the principles of the Contact cards).

Smart Card with their inherent capabilities, to store and iterate data are used for a wide variety of applications and can function in standalone or distributed environment. Smart Cards can be used for simple applications requiring plain data storage and can also cater to the needs of complex applications with encryption/decryption.

Smart Card & RFI D Solutions from I D Solutions

Smart Card Solutions from I D Solutions

Multi-Application Smart Card solutions from I D Solutions

In alliance with world leading technology companies, I D Solutions offers end-to-end Smart Card solutions comprising of Hardware (Cards, Readers, Point of Sale terminals, Standalone terminals, Printers, Digital camera, Signature pads Boom barreirs, Flap gates, Turnstile gates, Networking equipments etc.), Software Application Development, System Design and legacy system integration across major industry verticals like Access Control, eGovernance,

Transportation, Health Care, Banking and Retail.

I D Solutions Smart Card Solutions

-  **Access Control**
-  **Software**
-  **Systems**
-  **Networks**
-  **Premises (Employees and Visitors)**

Transportation

- Toll Collection**
- Fare Collection**
- Vehicle Tracking**
- Parking**

eGovernance

- Driving Licenses / Registration Certificates / Vehicle Permits**
- National ID**
- ID Applications**

Healthcare

- Patient ID**
- Hospital Loyalty**
- Health Insurance Processing**

Retail

- Loyalty programs**
- Supply Chain Management**

Banking & Finance

- Card Migrations**
- Switching**
- Bureau**

I D Solutions provides Smart Card solutions using Contact, Contactless and Biometric Technologies, that help the Governments, Enterprises, Institutions, Retailers and Banks to differentiate their services in today's challenging new business environment.

I D Solutions's Solution Design Services include Requirement Analysis, Process Flow Definition, Infrastructure Gap Analysis, Solution Design, Software Application Development, System Integration, Card/Tag Personalization, Project Planning and Implementation

IT Access Control

Business Challenge

A well planned IT security strategy requires easy identification and tracking of authentic individuals using the IT infrastructure of an organization. With the growth and usage of "e" in contemporary business practices, new challenges have emerged in managing secure and authentic access to e-resources, which are scattered across a wide range of internal and external computing systems within an organization. This challenge needs quick addressal in today's competitive scenario wherein intellectual and knowledge capital directly translates into exponential growth for many organizations.

I D Solutions's IT Access Control Solution

Benefits of the solution

Multiple applications on the same card

Centralized control and easy privilege monitoring

Scalable solutions to cover geographically diverse sites

Customized applications as per security policy of the organization

Customized management reports and tracking logs help organizations to visualize usage patterns of their authorized personnel

Optional integration with Biometrics and PKI

Physical Access Control

Business Challenge

With the rising intellectual propensity in workforce, threats to IT infrastructure of an organization can only be suitably addressed with implementation of physical access security policies that ensure only authorized personnel are allowed access to buildings and secure zones within the building.

I D Solutions's Physical Access Control Solution

I D Solutions offers customized and highly secure Physical Access Control solution

by integrating various Contactless Smart Card technologies like proximity (no data in the card/tag) and Mifare (data in the card/tag), Multi-range Readers, Controllers, Rising Barriers, Flap gates and Turnstile gates to provide robust and scalable solutions.

I D Solutions's solution can be easily integrated with legacy Barcodes and

Magnetic stripe based Physical Access Control solution and enhanced levels of security can be inbuilt using Biometric Technology.

Benefits of the solution

- œ Multiple applications on the same card
- œ Centralized control and easy privilege monitoring
- œ Scalable solutions to cover geographically diverse sites
- œ Customized applications per security policy of the organization
- œ Security level enhancement via security features like Biometrics

I D Solutions's Access Control Solution (IT / Physical) maintains confidentiality of critical corporate data by restricting access to IT assets and corporate premises

Healthcare

Business Challenge

The Healthcare industry is gaining momentum with a slew of multinational health insurance companies entering the private sector. Private sector hospitals now face the challenges similar to FMCG of customer retention and superior service to their patients.

I D Solutions's Healthcare Solution

I D Solutions offers Smart Card based healthcare solution covering all dimensions of an efficient health management system:

- Hospitals
- Health Service Providers
- Insurance Companies
- Corporates

Benefits of the solution

- œ High security in Data transfer
- œ Audit trails
- œ Biometric interface
- œ Customized end user and company specific reports
- œ Ability to enroll more hospitals and insurance companies

Banking and Finance

Business Challenge

Existing magnetic stripe based Credit and Debit cards are easily susceptible to electronic fraud resulting in high financial losses to issuing Bank and the Transaction Service Operator. To overcome huge losses, Banking industry across the world has mandated use of Smart Cards instead of magnetic stripe cards.

To address this issue major card issuing agencies like Europay (E), Mastercard (M) and Visa (V) have formed the EMV Standards for card migration programs.

Application development

RFIDs Solutions from I D Solutions

Radio Frequency Identification (RFID) Technology enables identification of objects and people just like Contactless Smart Cards.

A typical RFID system enables transmission of data by a portable device called a tag which is read by an RFID reader. The data transmitted by the tag may provide identification or location information for humans, or specifics about the product such as price, color, date of purchase etc. RFID tags are available in form factors like coin, hexagon, foils, bands etc. and operate efficiently even in harsh environments like oil, fog, snow without the need of line-of-sight between the tag and the reader.

Business Challenge

Smart Cards require line of sight and cleaner operating environments, however in harsh environments RFID technology provides all the benefits of authentic and secure identification without being in close proximity to the

reader. RFIDs are also very useful in situations wherein many objects are to be read simultaneously in a single pass e.g. Warehouse and Inventory management.

Benefits of RFID Technology

- œ Non-contact, Non-line of sight nature of technology**
- œ Tag can be read from variety of substances such as snow, fog, ice, paint, crusted grime etc.**
- œ Faster read rates as high as 100 milliseconds**
- œ Multiple tags can be read in single pass across the reader**
- œ Paper less tracking of equipment and personnel**
- œ High degree of scalability**
- œ Supply Chain Management**
- œ Inventory Management**
- œ Access Control**
- œ Equipment Tracking**
- œ Brand Protection**

Why Partner with I D Solutions?

Broad Range of Solutions

I D Solutions offers cutting edge Smart Card and RFID Solutions covering industry verticals like eGovernance, Transportation, Healthcare, Access Control, Retail and Finance & Banking.

Certified support skills

I D Solutions leverages on its professionals having industry recognized certifications such as

CISSP, BS 7799 LA, CUA, CUE, CCNA, SUN Java, IBM Web Sphere, RHCE, MCSE and

MQ Series, along with other skills such as C, C++, Assembly, RTOS, VB, VC, VC++,

HTML, XML, UML, Java, Web Services, .Net and Databases.

Timely response with on-shore and off-shore support

Managing Complexity

Using multi-disciplinary teams and proven methodologies, I D Solutions's consulting approach is to develop high-level strategies into detailed and integrated implementation programs that focus on processes rather than functions. I D Solutions is a trusted partner that seamlessly integrates legacy systems with leading-edge technology for running mission critical applications for many organizations.