

NAVAYUGA



*Navayuga Infotech*

A CMM Level 4 & ISO 9001 Company



**Biometric**  
and Smart Card

## Biometric Solutions

Biometrics is the measurements of features of the body that are unique to each person. These can include fingerprint patterns, the patterns of veins in the hand or eye, distances between features on the face, the way you walk and many more.

Because there are slight differences between each person, these features provide a means of confirming a person is who they are claiming to be.

NIT's biometric solution is one of the most powerful tools available for recording and analyzing hours worked. It is mainly used to track employee attendance and produce real-time reports for analysis by management as well as to collate personnel information. It allows you to build a clear picture of employee time through detailed data and reports on attendance, absenteeism, overtime, flexi-balances, and holiday leave. Scalable and completely configurable, it applies your organization's unique pay rules and policies accurately and consistently and is fully compliant with legislation such as the Working Time Directive.

NIT's Biometric Solutions can incorporate a range of biometric devices into our clocks. These can be used as the sole means of registering attendance, or combined with a card to verify identity. Fingertip readers are our most popular product for their combination of convenience and affordability, but we can integrate with the technology of your choice to create a solution that meets your needs.

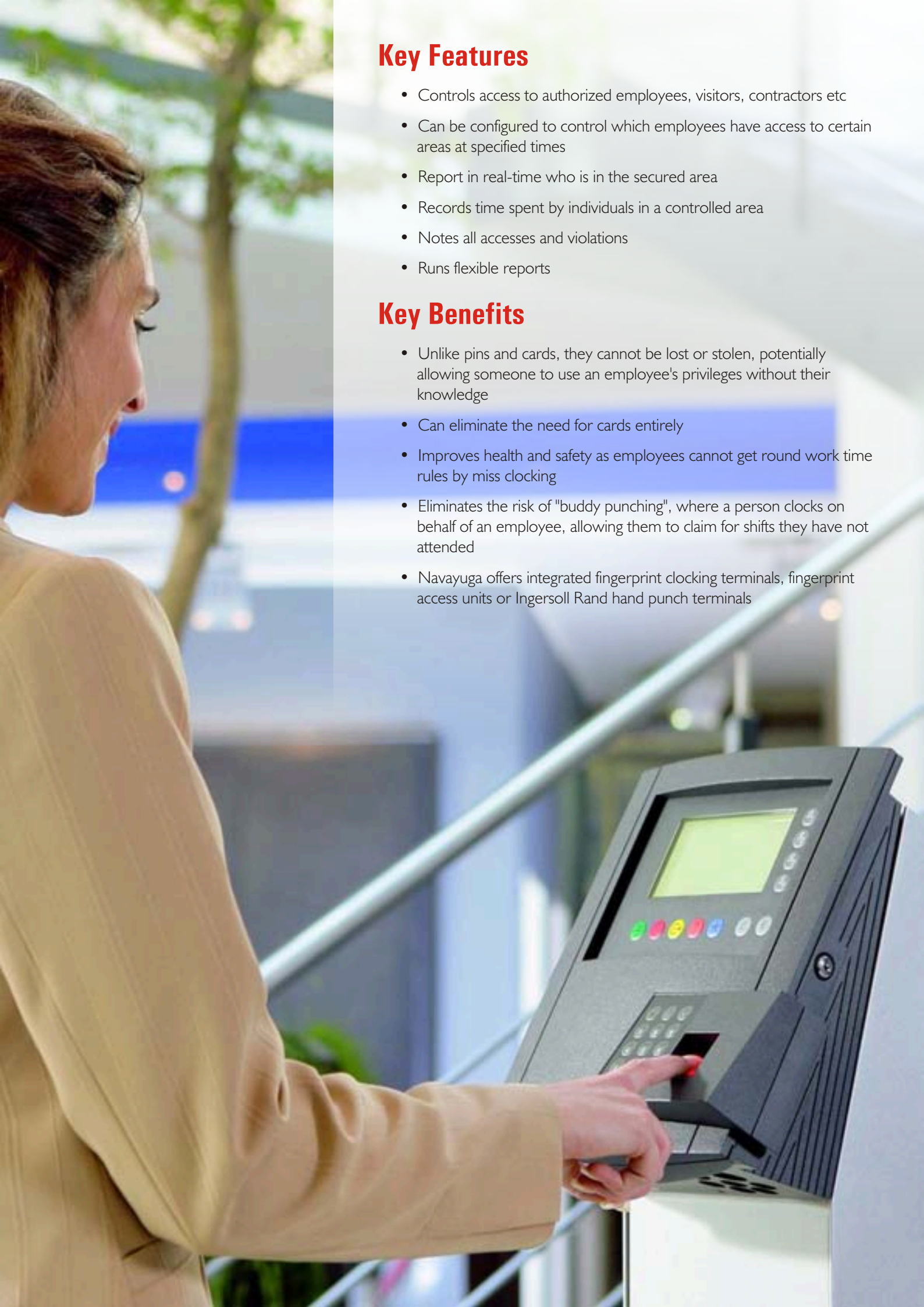


## Key Features

- Controls access to authorized employees, visitors, contractors etc
- Can be configured to control which employees have access to certain areas at specified times
- Report in real-time who is in the secured area
- Records time spent by individuals in a controlled area
- Notes all accesses and violations
- Runs flexible reports

## Key Benefits

- Unlike pins and cards, they cannot be lost or stolen, potentially allowing someone to use an employee's privileges without their knowledge
- Can eliminate the need for cards entirely
- Improves health and safety as employees cannot get round work time rules by miss clocking
- Eliminates the risk of "buddy punching", where a person clocks on behalf of an employee, allowing them to claim for shifts they have not attended
- Navayuga offers integrated fingerprint clocking terminals, fingerprint access units or Ingersoll Rand hand punch terminals



# Smart Card based Solutions

NIT has an end-to-end University Information Management System which caters to the needs of universities starting with the admission / registration of students until their completion of course. This UIMS solution is tightly integrated with Smart card. The universities can issue smart cards to their students after enrollment for better accessibility and security. Smart card is designed to store and monitor important details of a student.

The smart Card controls access to a variety of facilities and services across a Campus. This Card also serves as an identification card for authentication and authorization purpose.

Smart Card is a convenient, multi - purpose card, which gives the cardholder access to various facilities and services. This Card (just like Debit card) can be made to accept at all facilities available within the premises and registered off campus outlets. It speeds up cash register service and increases security for the users by allowing purchases without having to carry cash.

By establishing a smart card account, you can use the smart card in;

- Mess
- Canteen
- Pay fines in Libraries
- Sport Department
- Concerned laboratories of students for any breakages

Funds can be deposited to the accounts at finance department of the campus.

All critical details of a student can be stored on a smart card which can be used for various activities such as;

- Tuition /Exam fee payment
- Link to finance module hostel fee payment linked to Hostel management module
- Mess fee payment linked to Canteen management module etc.

This smart card can also be used at various outlets within the University campus such as;

- Library
- Hotels
- Pharmacy
- Book Store
- Departmental Store
- Sports Complex
- Browsing Centers etc

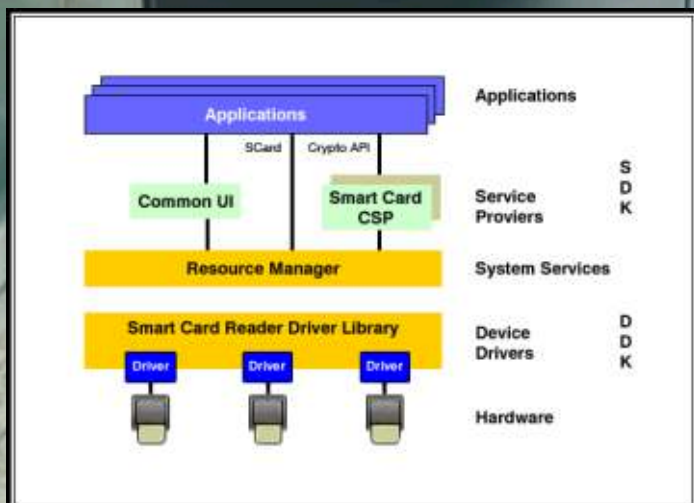


# Smart Card Architecture

The various components of the Smart Card based solutions are;

- Smart Cards Hardware - Smart cards, Card Readers
- Smart Card Reader with Driver Library - Device Driver Kit (DDK)
- System Services - Resource manager
- Service Providers - Software Development Kit (SDK)
- Applications integrated with Smart Card

The DDK & SDK are usually provided by the Smart Card manufacturer and these are integrated into the application using standard services.



## Key Benefits

- Fully Modular and easy to configure
- Access to information through smart card
- Management can save lot of expenses
- Enhanced revenues due to better control
- Increased organizational status which in turn increases the visibility of the Institution
- Self-service features of the UMS results in time saving
- Completely integrated
- Enhanced Financial and Resources management results in time and resource savings
- Web-based course catalogs
- Highly secure smart card based access
- Low maintenance
- Customer-specific customizations possible
- Better resource retention
- Better interactions between institute and student / management and staff
- Move towards Paperless office
- The use of smart card would serve to be a time saver, as all financial transactions carried out on campus will be performed electronically. This leads to lesser human errors while dealing with the cash and immediate transfer of funds
- The proposed smart card will help the accounts department to trace unpaid dues, arrears, etc



NAVAYUGA INFOTECH LLC  
2028 Power Ferry Road,  
Suite 240, Atlanta,  
GA 30339, USA

Tel : +1 770 955 9599  
Fax : +1 770 955 9510  
E-mail : [navtech@navayuga.com](mailto:navtech@navayuga.com)

NAVAYUGA EUROPE LIMITED  
Suite 35, Alpha house,  
100 Borough High street,  
London SE1 1LB

Tel : +44 20 7863 3179  
Fax : +44 20 7863 3001  
E-mail : [info@navayuga.co.uk](mailto:info@navayuga.co.uk)

NAVAYUGA INFOTECH AFRICA (PTY) LTD.  
Suit No: 1130, 11th Floor,  
Sanlam Centre, Independence Avenue,  
Windhoek - NAMIBIA

Tel : +264 61 257 938  
Fax : +264 61 257 940  
E-mail : [suresh.kaggere@navayuga.com](mailto:suresh.kaggere@navayuga.com)

NAVAYUGA MIDDLE EAST FZC  
P.O. Box No 10559,  
Ras Al Khaimah Free Trade Zone,  
Ras Al Khaimah, United Arab Emirates

Tel : +971 50 7 207 7830  
Fax : +971-50 7 204 1010  
E-mail : [navme@rakfzbc.ae](mailto:navme@rakfzbc.ae)



## ***Navayuga Infotech Pvt. Ltd.***

A CMM Level 4 & ISO 9001 Company

Plot No: 1, Survey - 12, White Fields, Kondapur,  
Hyderabad - 500084, INDIA

Tel : +91 40 2311 5180/1/2/3  
Fax : +91 40 2311 5192  
E-mail : [info@navayuga.com](mailto:info@navayuga.com)  
Website : [www.navayugainfotech.com](http://www.navayugainfotech.com)