

EMPLOYEE SELF SERVICE



ROSTER MANAGEMENT



VISITOR MANAGEMENT



CAFETERIA MANAGEMENT



ACCESS CONTROL



TIME-ATTENDANCE



JOB PROCESSING  
AND COSTING



CONTRACT WORKERS MANAGEMENT



VEHICLE ACCESS MANAGEMENT



FIELD VISIT MANAGEMENT



## PRODUCT CATALOGUE

- Time-Attendance
- Employee Self Service
- Access Control
- Visitor Management
- Cafeteria Management
- Contract Workers Management
- Job Processing and Costing
- Vehicle Access Management
- Field Visit Management
- Roster Management



## MATRIX R&D

All Matrix products are indigenously designed passing through the various product development stages beginning with Product Conceptualization, Hardware Design Section, Software Designing and Engineering. With more than 40% of its human resources dedicated to the development of new products, Matrix R&D is the foundation of its growth and substance. The R&D team designs products conforming to relevant international standards. Matrix makes substantial investment in R&D tools and equipment to stay abreast of the latest technological changes. The Indian Ministry of Science and Technology has granted DSIR (Department of Scientific & Industrial Research) recognition to the Matrix R&D Centre for its contribution to the Industry.



## MATRIX MANUFACTURING

Based at Vadodara in India, Matrix Manufacturing unit is operated and managed by a team of professionally qualified and dedicated engineers. The structure houses various sections like Production, Quality Control and Supply Management with a production capacity of about 1,000,000 ports per annum. With more than 50 Products, Matrix Manufacturing has been delivering cutting-edge technology products for more than two decades now.



## MATRIX MARKETING

The Marketing Team at Matrix strongly believes in value-based marketing and strong networking. Right from product conceptualization and designing to commercial marketing, Matrix adopts a completely global approach. Backed by an extensive network of more than 500 channel partners across the globe, Matrix ensures that the products serve the customer needs faster and longer. Various Marketing Tools and activities including strong marketing collaterals, solution designing, online and print media communication, and promotional and networking activities are a very elemental to Matrix Marketing.



GOOD  
DESIGN



product  
design  
award  
2011



## MATRIX ACHIEVEMENTS

- SECONA Shield Award 2015 for Best Access Control Hardware
- Awarded as one of India's 100 Innovative SME Company 2015 by INC. Magazine
- The Good Design Award 2013 presented by Japan Institute of Design Promotion
- India Design Mark Award 2012 for its Security Products
- IF Product Design Award 2011 for its Security Products
- RED DOT Design Award 2010 for its Security Products
- The Best SSI Unit Award 2008 by the Federation of Gujarat Industries.
- The Best Electronics Company Award 2008, 2009 and 2014 from the Gujarat Electronics and Software Industries Association (GESIA)
- The 2007 IETE Corporate Award for Excellence in Computer & Telecommunication Systems by the Institution of Electronics & Telecommunication Engineers, India
- The 2004 Award for Excellence in Professional Electronics conferred by the Ministry of Communication and Information Technology

## MATRIX AT A GLANCE

- 60+ Security Products
- 700+ Man-Years of R&D Experience
- 500+ Channel Partners
- 400,000+ Satisfied Customers
- 24x7 Technical Support
- Global Footprints: Asia, Europe, Africa, Northern and Southern America, Middle East and Australia
- Quality Certifications: CE, FCC, TEC, RoHS

# COSEC APPLICATIONS

## COSEC CENTRA



### TIME-ATTENDANCE MODULE (TAM)

COSEC Time-Attendance is an enterprise-grade solution for organizations with multiple locations spread across geographic regions. It automates all Time-Attendance and Leave Management processes right from recording entries and exits to report generation and salary processing.



### EMPLOYEE SELF SERVICE (ESS)

COSEC ESS is a comprehensive web-based employee portal that allows COSEC users to monitor and manage all their time-attendance and leave options. Employees and managers can perform related tasks intuitively, reducing a significant amount of time they spent on issues related to attendance and leaves.



### ACCESS CONTROL MODULE (ACM)

COSEC Access Control protects an organization's assets and manpower by controlling users' entry based on their credentials (Palm Vein, Fingerprint and RF Card) and advance access control policies integrated with the door controller.



### VISITOR MANAGEMENT MODULE (VMM)

COSEC Visitor Management module automates the entire process of registering a visitor, printing a pass and capturing detailed information in a few seconds. This module also allows the host to greet visitors in a professional manner.



### CAFETERIA MANAGEMENT MODULE (CMM)

Matrix COSEC Cafeteria Management software is a solution automating the process starting from placing an order to delivery, including the payment. It also allows item tracking, speedy transaction and prevents wastage of food and error in accounting.



### CONTRACT WORKERS MANAGEMENT (CWM)

COSEC CWM is specifically designed for large organizations to help them manage all their contract workers management processes. This includes planning, work orders, enrolment, e-pass, attendance, timings and access control. This solution also allows managers and contractors to improve labour productivity and enhance operational efficiency, bringing down overall cost.



### JOB PROCESSING AND COSTING (JPC)

COSEC JPC module allows managers to divide a project into multiple jobs and keep a track of man hours spent after each pre-defined job. Managers can also pre-define the man hours expected to be spent after each job. This module help managers keep a track of the total man hours spent on each job, and in turn on the payments to be made for the same.



### VEHICLE ACCESS MANAGEMENT (VAM)

COSEC VAM provides complete security by eliminating unauthorized vehicle access, consecutively maintaining accurate record from the centralized server. This solution manages vehicle inflow and outflow from a central place for secured operations using RFID technology. Web based COSEC VAM automatically generates vehicle/driver/helper pass based on the purpose of visit, produces real-time summary, sends SMS and E-mail notifications and generates comprehensive reports.



### FIELD VISIT MANAGEMENT (FVM)

COSEC Field Visit Management is an easy tool to manage organizations having employees deployed in the field from centrally located personnel. The software provides live tracking of field employee schedules via reports with real-time notifications on exceptions.



### ROSTER MANAGEMENT (RSM)

COSEC Roster Management is a comprehensive tool to automate workforce planning and facilitate proper forecasting and budgeting of staffing requirements. This system simplifies the process of defining and managing employees' duties and timings. Managers can also generate comprehensive workforce analysis reports and export data to third party applications.

## 10 REASONS TO INVEST IN MATRIX COSEC



### MULTIPLE CREDENTIALS

- Palm Vein and Fingerprint - Multispectral and Optical
- RF Cards - Smart Cards, Proximity Cards and NFC Tags



### MULTIPLE CONNECTIVITY OPTIONS

- Wired and Wireless Connectivity Options
- 4G/LTE/3G, Wi-Fi, Ethernet and USB



### COMPREHENSIVE AND FLEXIBLE ATTENDANCE POLICIES

- User-wise Late-In, Early-Out, Over Time, C-OFF and Absenteeism Policies
- Fully Configurable to Meet Diverse and Disparate Needs



### CUSTOMIZED REPORTS GENERATION

- 300+ Customized Reports using Multiple Filters
- User-defined Report Templates with Customized Fields



### EASY INTEGRATION

- Direct Integration with Payroll, ERP, HRM, Active Directory and Third Party Hardware
- API Integration at Three Levels – Function, Platform and Device
- Integration using Export, Import and Sharing Database Tables



### AUTOMATIC ALERTS AND SCHEDULER SERVICES

- Automatic SMS and E-mail Notifications on Predefined Events
- Scheduler Services like Backup, Leave Credit, Report on E-mail at Configured Time



### WEB BASED MANAGEMENT

- Real-time Monitoring and Control from One Place
- Automatic Data Push from Devices to Central Server



### AWARD WINNING DESIGN AND AESTHETICS

- Many International Awards for Product Engineering and Aesthetics
- Gold-Flash PCBs, Touch Sense Keys and Heavy Duty Components for Long Life



### EASY SCALABILITY AND FLEXIBILITY

- Scalable and Modular Architecture to Meet Future Requirements
- Flexible and Configurable to Match Organization's Exact Needs



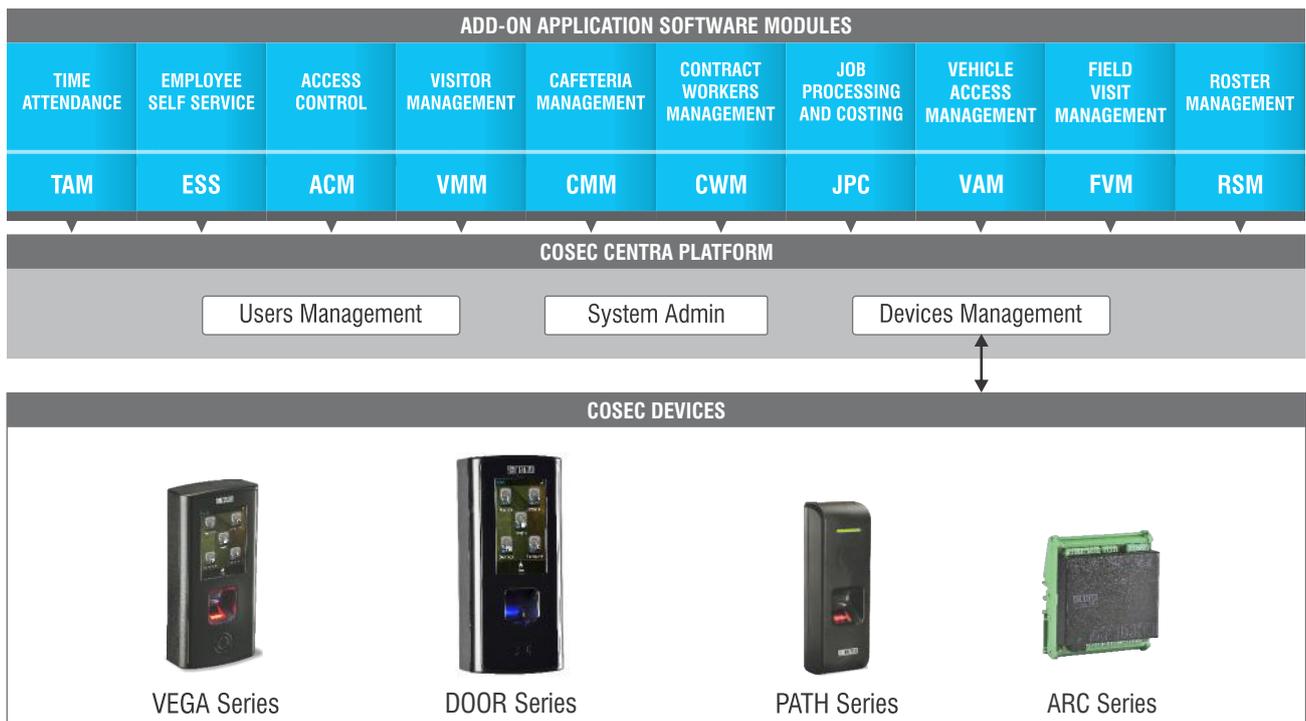
### PROVEN SOLUTION IN ENTERPRISES

- 600+ Satisfied Large Enterprise Customers
- Over Three Million Users on 20,000+ Devices Installations Across the Globe in 25+ Countries

## MATRIX COSEC SOLUTION OVERVIEW

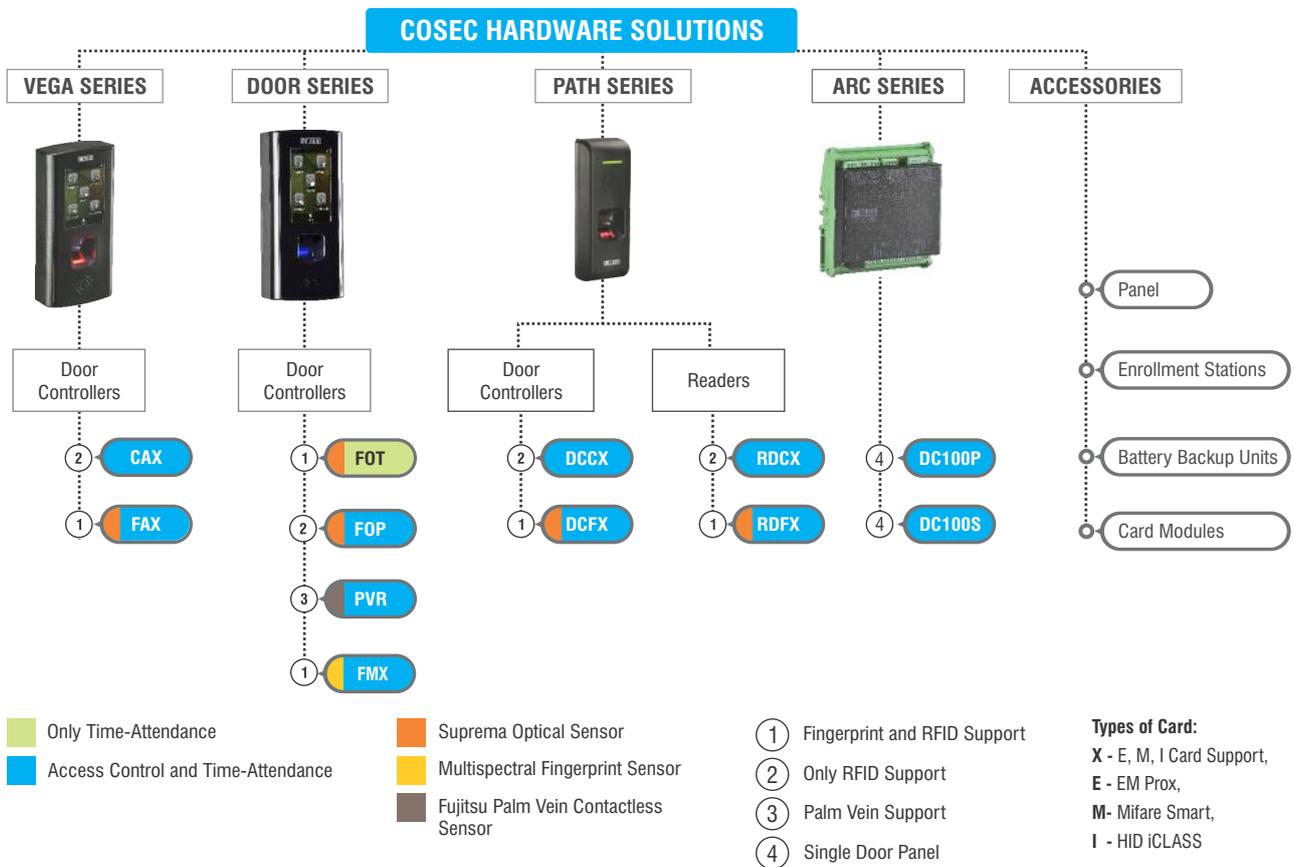
Matrix COSEC is an enterprise-grade people mobility management solution for organizations, covering Time-Attendance, Employee Self-Service, Access Control, Visitor Management, Cafeteria Management, Roster Management, Contract Workers Management, Vehicle Access Management, Job Processing and Costing and Field Visit Management. Matrix COSEC is an all-integrated solution including hardware devices, software platform and a suite of software application modules.

Matrix COSEC is a flexible, modular and scalable solution designed for large, medium and small enterprises encompassing up to 1 million users and 65,000 entry points, scattered across 1,000 locations.



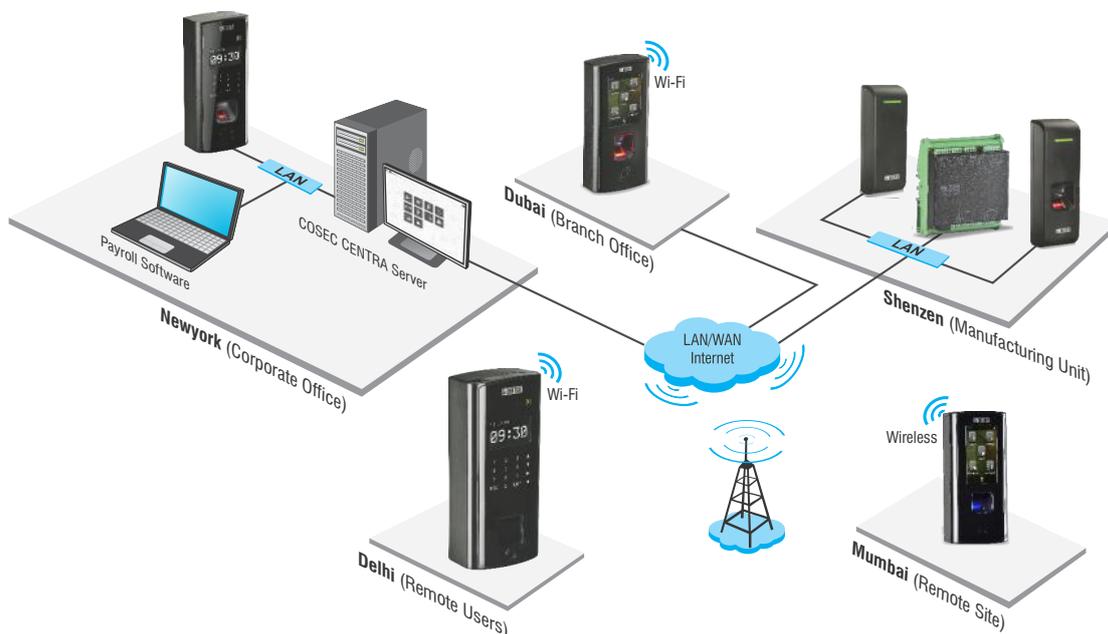
## COSEC HARDWARE SOLUTIONS

Matrix COSEC hardware solutions comprise of families of door controllers, readers and accessories. These products have won many international awards for their aesthetics and engineering. They are specifically designed for demanding enterprise applications using cutting-edge technologies and components for reliable performance for years.



## COSEC APPLICATION

The image below shows COSEC deployment in a large enterprise having a corporate office, manufacturing unit, branch offices and remote sites located at different geographical locations. COSEC CENTRA server is installed at the corporate office to manage attendance and access control of all employees on a central level. COSEC door controllers installed at these locations are connected with COSEC CENTRA using available connectivity (VPN, WAN, LAN, Wi-Fi, 3G/4G/LTE). COSEC door controllers record user attendance and control access using biometric or RF cards. It sends real-time entry/exit events to the COSEC CENTRA PLATFORM. COSEC CENTRA processes these events to generate attendance/leave data and sends the same to payroll/ERP for salary processing.



## COSEC DOOR CONTROLLERS

COSEC door controllers are the front-end terminals that people use during entry and exit. Door controllers read biometric credentials – palm vein, fingerprint or RF cards to log each entry/exit and control door locking. Door controllers are connected with the COSEC CENTRA server or site controller. They store all user access information and send entry-exit details to the COSEC CENTRA server in real-time. Door controllers can monitor and control additional readers, door locks and auxiliary input and output ports. The COSEC door controllers are divided into five series as mentioned below:



### COSEC VEGA

VEGA series door controllers are engineered with careful blend of aesthetics, size, connectivity, reliability and ease of use for modern enterprises. The VEGA devices are a perfect fit for Access Control and Time-Attendance solution required by modern organizations.

- Optical Fingerprint Reader
- Smartcards, NFC and Proximity Cards
- 3.5" Touch Sense Colour LCD
- IP65 for Outdoor Applications
- Power over Ethernet (PoE)
- Ethernet, Wi-Fi and 3G/4G/LTE
- 500,000 Events Storage

### COSEC DOOR

#### COSEC DOOR PVR

COSEC DOOR PVR is a contactless technology that reads internal vascular pattern of the user palm and give accurate result to provide utmost security and hygiene. These patterns are unique to each individual and exists underneath the skin layer so they cannot be forged thereby making it more secure than any other biometric technology.



- Contactless Reader
- Palm Vein, RFID and PIN Credentials
- 20,000 User Templates
- 100,000 Event Storage
- Ethernet, Wi-Fi and 3G/4G/LTE
- Detachable Hand Guide for COSEC DOOR PVR
- Standard Matrix Hand Guide for COSEC DOOR PVR ES

#### COSEC DOOR FMX

COSEC DOOR FMX makes use of advance multispectral fingerprint sensor. It reads surface and subsurface of a live finger and gives very clear and strong image. Furthermore, it reads subsurface layer even if the surface layer is not available due to dirty finger, dry finger, oily finger, poor ridge image or other environmental problems. This unique identification process outperforms all other fingerprint sensors and offers robust and reliable biometric information of the user.



- Multispectral Sensor with Live Fingerprint Detection
- Fingerprint and RFID card
- Interactive GUI with 4.2" TFT Touch Screen
- 500,000 Transactions and 50,000 Users
- PoE, Ethernet, Wi-Fi, 3G/4G (on USB)

#### COSEC DOOR FOP, COSEC DOOR FOT

Winner of the coveted iF award for its superior design, DOOR series controllers are versatile devices designed for reliability, modularity and performance. These workhorses come in multiple variants specifically targeted at Time-Attendance and Access Control applications.



- Optical Fingerprint Reader
- Smart Card and Proximity Cards
- 128\*64 Dot Matrix Display
- Touch Sense Keypad
- Ethernet, 3G/4G/LTE and USB Port
- 500,000 Event Storage





## COSEC PATH

Compact, robust and cost-effective PATH series door controllers blend in with any modern building architecture and design. These devices assure reliable and long term performance as sentries at the building gates and doors for Access Control application.

- Optical Fingerprint Reader
- Smartcards, NFC and Proximity Cards
- IP65 for Outdoor Applications
- Power over Ethernet (PoE)
- Power to Door Lock over PoE
- Elegant and Compact
- 9,600 Fingerprint Storage
- 50,000 Events Storage



## COSEC ARC

COSEC ARC is an intelligent compact IP panel with PoE for two doors. The state-of-the-art COSEC ARC can control two readers on Wiegand or RS-485, door lock and other auxiliary devices making it an ideal solution for any access control installation.

- Two Door IP Panel with PoE
- Two Readers on Wiegand or RS-485
- PoE for Readers and Door Lock
- Connect Door Lock/Exit Switch individually for each Door
- Up to 10,000 Users and 100,000 Events
- Din Rail and Box Mounting



## COSEC ARC IO800

COSEC ARC IO800 is an input and output controller to control multiple inputs and outputs of third party devices to perform multiple applications.

- Eight Input Ports with Four State Supervised Inputs
- Eight Output Ports with Form C Dry Contact Relays
- Power over Ethernet (PoE)
- Ethernet and/or RS-485 Connectivity
- Elevator Control
- LED Indication for Device and Network Status Respectively



## COSEC DOOR CONTROLLERS SELECTION GUIDE

SERIES	VEGA		PATH		DOOR			
	CAX	FAX	DCCX	DCFX	FOT	FOP	PVR	FMX
Fingerprint Sensor (Optical)		•		•	•	•		
Fingerprint Sensor (Multispectral)								•
Palm Vein Sensor							•	
RFID Card Reader	•	•	•	•	•	•	•	•
Touch Screen LCD (4.2")								•
Touch Screen LCD (3.5")	•	•						
128*64 Dot Matrix Display					•	•	•	
Touch Sense Keys					•	•	•	
Ethernet	•	•	•	•	•	•	•	•
RS-485			•	•		•		
USB Port for Data Transfer	•	•			•	•	•	•
USB Port for Communication	•	•			•	•	•	•
Built-in Wi-Fi	•	•			•	•	•	•
Power over Ethernet (PoE)	•	•	•	•				•
Event Storage (50,000)			•	•				
Event Storage (100,000)							•	
Event Storage (500,000)	•	•			•	•		•
External Reader	•	•	•	•		•	•	•
Exit Switch	•	•	•	•		•	•	•
Door Lock	•	•	•	•		•	•	•
Auxiliary Input Port	•	•				•	•	•
Auxiliary Output Port	•	•				•	•	•
Tamper Detection	•	•	•	•	•	•	•	•
Buzzer	•	•	•	•	•	•	•	•
LED Indication			•	•	•	•	•	
IP65	•	•	•	•				

- Built-in
- COSEC CPM is Required
- External Wi-Fi Dongle Required

X-E, M, I Card Support E- EM Prox M-Mifare Smart I- HID iCLASS

## COSEC EXIT READERS



Matrix COSEC Exit Readers are used with COSEC door controllers to monitor user exits. They come in two variants - Fingerprint based and Card based. Elegant design and IP65 make them suitable for use in demanding environments.

- Fingerprint and Card based
- Tri Color LED
- Tamper Detection
- IP65 for Outdoor Usage
- RS-232 and RS-485 Interface
- Buzzer

## ACCESS CONTROL PANEL



### COSEC PANEL

COSEC PANEL manages multiple controllers and acts as a bridge between the controllers and the central COSEC CENTRA server. They are responsible for synchronizing all door controllers and implementing advanced access control features

- Ethernet and RS-485
- USB for Wi-Fi, 3G/4G/LTE and Data Transfer
- Auxiliary Input and Output Ports
- Advance Access Control Features
- 500,000 Events Storage
- Controls 255 Doors and 25,000 Users

COSEC PANEL LITE		
USE	STANDALONE MODE	NETWORK MODE
For	SMB, SME and SOHO	Enterprises and SME
Location	Single Location	Multiple Location with COSEC CENTRA
Software	Built-in with COSEC PANEL LITE	Web based with COSEC CENTRA
Capacity	Connect up to 255 Doors with COSEC PANEL LITE	Connect up to 65,000 Doors with COSEC CENTRA
Users	25,000 Users with COSEC PANEL LITE	One Million Users with COSEC CENTRA

## COSEC ACCESSORIES



### COSEC ENROLL

COSEC ENROLL is a desktop based enrolment station to enrol palm and fingerprint from a single location. COSEC ENROLL, along with the enrolment software, allows HR to enrol new employees in a simple manner.

- Palm Vein Enrolment Station
- Optical Fingerprint Enrolment Station
- Multispectral Fingerprint Enrolment Station
- Fingerprint Verification
- Comprehensive Software
- Finger Image Quality Check during Enrolment

### COSEC CPM

COSEC CPMs are pluggable card reader modules inserted in the COSEC DOOR and VEGA series controllers. Six different card reader modules are available to support both proximity and smart cards.



#### Cards Support:

High Frequency (13.56MHz): MIFARE 1k, MIFARE 4k, HID iCLASS 2k/2, HID iCLASS 16k/2, HID iCLASS 16k/16

Low Frequency (125 KHz): EM Prox

PRODUCT	TECHNOLOGY	SUPPORTED DOOR CONTROLLERS
COSEC VEGA CPM EM PROX	Proximity	COSEC VEGA Series
COSEC VEGA CPM MIFARE SMART	Smart Card	COSEC VEGA Series
COSEC VEGA CPM HID iCLASS	Smart Card	COSEC VEGA Series
COSEC CPM EM PROX	Proximity	COSEC DOOR Series
COSEC CPM MIFARE SMART	Smart Card	COSEC DOOR Series
COSEC CPM HID iCLASS	Smart Card	COSEC DOOR Series

## COSEC Battery Backup Units



### COSEC VEGA BBU

Power supply battery backup for the COSEC VEGA Door Controllers - useful at remote sites where connectivity is an issue.



### COSEC PATH BBU

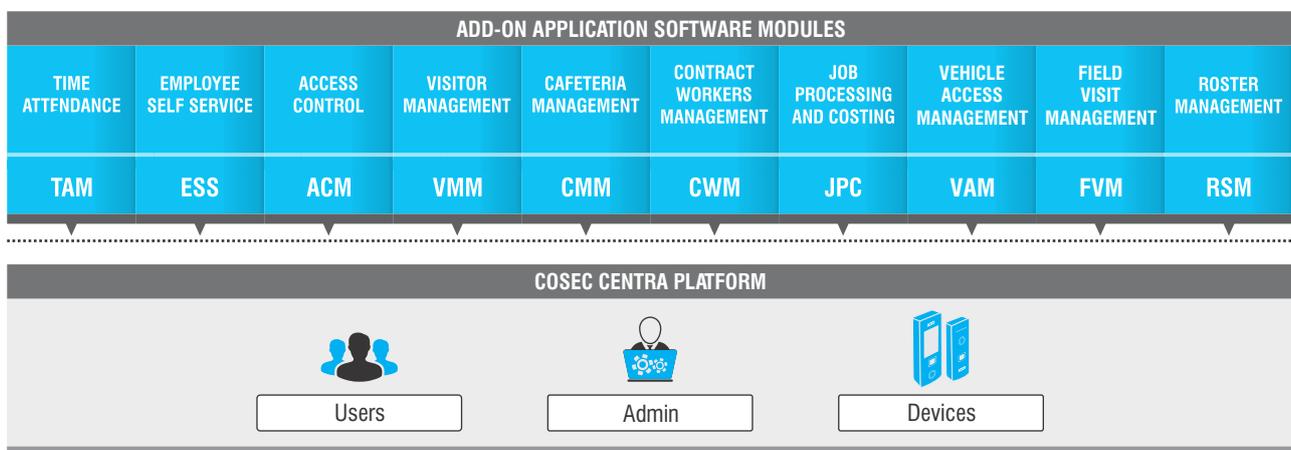
Power supply battery backup for COSEC PATH Door Controllers - highly useful for mobile application and remote areas where there is scarcity of connectivity and power.



### COSEC PSBB12V

COSEC power supply with battery backup - used for supplying power to the Door Controller, Door Lock and Exit Readers.

## SOFTWARE SOLUTIONS



## COSEC CENTRA APPLICATION SERVER

COSEC CENTRA PLATFORM is the heart of the entire COSEC solution. In addition to managing an organization, users and devices data, the PLATFORM acts as a bridge between applications and the devices. On the devices side, it facilitates configuration of devices and communicates with site controllers (COSEC PANEL) and door controllers to exchange events and commands and display them live on the monitor screen. On the applications side, the PLATFORM supports enrolling new users and manages organizations and users. Thus, PLATFORM is the foundation for Matrix COSEC CENTRA applications like Time-Attendance, Access Control, Visitor Management, Roster Management, Cafeteria Management and others. Developers can build these applications keeping in mind the customer requirements, local news, language and GUI.

In addition to working with Matrix's native applications, COSEC PLATFORM is designed to work seamlessly with third party

applications as well. It provides API functions for developing applications such as Time-Attendance, Visitor Management, Access Control, etc. This layered architecture protects developers from a lower level and tedious tasks such as hardware management, device configuration and real-time communication.

- Web based Application Software
- Centralized Management
- MS SQL or Oracle Database
- Automatic Fingerprint Distribution
- Real-time Monitoring of Devices
- Auto Device Identification
- Modular and Scalable Architecture
- Crystal Reports
- Easy Backup and Restore
- PLATFORM API for Third Party Software Development

## APPLICATION SOFTWARE MODULES

Matrix COSEC offers a range of business Applications such as Time-Attendance, Employee Self-Service, Access Control, Visitor Management, Cafeteria Management, Roster Management, Contract Workers Management, Vehicle Access Management, Job Processing and Costing and Field Visit Management. These feature-rich and flexible applications are designed after careful research to meet diverse and complex needs of modern enterprises.

## TIME-ATTENDANCE (TAM)



Matrix COSEC Time-Attendance is an enterprise-grade solution for multi-location organizations having complex time-attendance needs. It automates all time-attendance and leave management processes right from recording entries and exits up to report generation and salary processing.

- Late-in/Early-out Policy
- Compensatory Off (C-OFF) Policy
- Overtime Policy and Authorization
- Absenteeism Policy
- Shifts and Schedules
- Automatic Shift Correction
- Holidays and Restricted Holidays
- Manual Entry and Corrections
- Attendance Summary
- Attendance Notifications
- Leave Management
- 200+ Reports and Charts

## EMPLOYEE SELF-SERVICE PORTAL (ESS)



Matrix COSEC ESS is a comprehensive web-based portal that allows COSEC users to monitor and manage all their time-attendance and leave options. Employees and managers can access all employees' time-attendance information and perform related tasks intuitively saving a significant amount of time they spend on such issues.

- Mark Attendance
- Check Attendance and Leave Status
- Shift Schedules
- Attendance Correction
- Leave Application and Approval
- Cafeteria Details
- Message Board
- Visitor Pre-registration
- Reporting Officer Self Service
- Add/Edit Personal Details
- Dashboard

## VISITOR MANAGEMENT (VMM)



Matrix COSEC Visitor Management is designed to automate visitor management process in a professional and systematic method without compromising on security, safety, hospitality and productivity. It automates the entire process, right from planning and registering a visitor to the end of their visit.

- Visitor Pre-registration
- Visitor Pass creation
- Notifications
- Visitor Access
- Visitor Escort
- Visitor Dashboard
- Frequent Visitors
- Material Tracking
- Visitor Reports

## JOB PROCESSING AND COSTING (JPC)



COSEC Job Processing and Costing application is a web based solution for organizations working on various projects. This solution allows organizations to track and control project cost and progress very efficiently. Organizations can also monitor user-wise time spent on each job and generate project cost reports using various filters.

- Job and Project Process Monitoring
- User/Device -wise Job Assignment
- Central Monitoring
- Inclusion of Independent Jobs
- Job Hours based Payment Policies
- Site Mapping
- Reports

## ACCESS CONTROL (ACM)

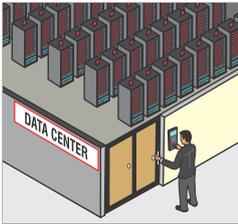


Matrix COSEC ACM is a comprehensive and flexible Access Control solution to meet access control needs of organizations, irrespective of their size, layout, locations and timings. Matrix COSEC allows controlling access on three dimensions simultaneously-user, zone and time, by answering three fundamental questions about who, where and when. In addition, a range of value-added features like Anti-pass back, 2-Person rule, First-in User, Blocked Users, Door Auto Re-lock, Guard Tour, Man-trap and Smart Card based Identification ensure fool proof security of physical assets and safety of manpower.

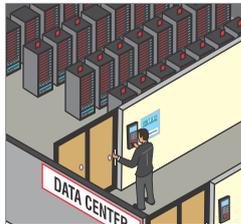
- Time, User and Zone based Access
- Home Zone and Visit Zone
- VIP Access
- First-In User
- 2-Person Rule
- Man-trap and Guard Tour
- Door Auto Re-lock
- Dead-man Zone
- Anti-pass Back
- Do Not Disturb Zone
- Route based Access
- Occupancy Control
- Smart Identification
- Blocked Users
- Time Stamping
- Who's In

## ACCESS CONTROL FOR DATA CENTRES

Data Centre Authentication

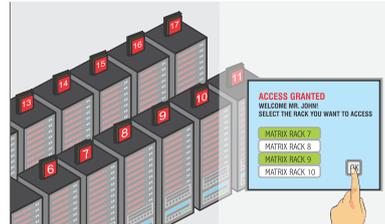


Rack Authentication



The success of any data centre depends on how securely it manages sensitive data of multiple clients. Hence, it is very crucial for the data centres to prevent any unauthorised access in data centre and rack. Using Matrix solution, data racks are secured biometrically, with records of every access along with its duration. Only an authorised person can access specific racks for the stipulated time using biometric verification.

Rack Selection



- Centralized Biometric Authentication to Data Centres and Data Racks
- Pre-defined Rack Access
- Integration with Video Surveillance
- SMS/E-mail Notifications
- Alarm on Door Abnormal
- Central Monitoring through E-map
- Door Status Monitoring

## MOBILE BASED ACCESS CONTROL - YOUR MOBILE IS YOUR IDENTITY



### QR CODE BASED ACCESS CONTROL

Matrix "Your Mobile is your Identity" technology offers QR Code based Identification of users to mark their attendance and open doors by simply scanning the QR code from their registered mobile phones.

- Scan QR Code for Identity
- Mobile as User's Credential
- Contactless Identification
- Server Encrypted QR Code
- Customer Created QR Codes
- 24 bit Encryption for Mobile to Server Communication



### BLUETOOTH BASED ACCESS CONTROL

Matrix "Your Mobile is Your Identity" technology offers gesture-based identification of users and marks their attendance and opens doors just by twisting of their mobiles in the vicinity of the entry or exit point.

- Twist Mobile to Identify
- Mobile as User's Credential
- Contactless Identification
- Process Multiple Users Simultaneously
- Eliminate RF Cards
- Encrypted Communication



## CAFETERIA MANAGEMENT (CMM)



Matrix COSEC Cafeteria Management application is a solution that automates the process starting from placing an order to delivery and payment. It tracks items, expedites transactions and reduces food wastage along with preventing accounting errors.

- Customizable Menu
- Menu Schedule
- Auto-selection of Item
- Cashless Transactions
- Refund Requests
- Balance Recharge
- Food Planning
- Blocked Users
- Consumption Status
- Export Data to Payroll and Billing Software
- Informative Reports

## COSEC MIRROR



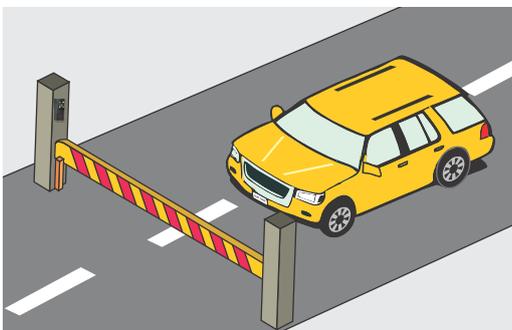
\* Available Only with Android Devices

COSEC MIRROR is an App that allows a user to select menu items from any android device (TV, Tablets) instead of a door controller. The app will display the same UI present in the door controller for cafeteria management. User may first select items from the device and then punch on a biometric device.

- Easy Interpretation of Cafeteria Management
- Selection of Items with One Click through Tablet
- Prevents Queue and Reduces Cafeteria Transaction Time



## VEHICLE ACCESS MANAGEMENT (VAM)



COSEC Vehicle Access Management is a web based solution for tracking and managing the movement of different types of vehicles coming and going out of an organization's premises. Organizations can get all details of registered vehicles along with its location on a single window.

- Vehicle Profile
- Real Time Summary
- Notifications
- Approve/Reject/Blacklist Vehicles
- Reports

## CONTRACT WORKERS MANAGEMENT (CWM)



Matrix COSEC Contract Workers Management solution is specifically designed for organizations dependent on contract workers. COSEC CWM allows managers and contractors to plan and manage their workforce efficiently to improve productivity and significantly reduce labour cost. Organizations can create and define work orders and assign them to contractors along with completion dates. Contractors can manage workers' details and attendance from the COSEC web portal.

- Worker Master Creation
- Work Order Generation
- Monitor Task Completion Status
- Worker Database
- Work Hours Calculation
- Shift Generation
- Web based Dashboard
- Report Generation
- Export to Third Party Applications
- Labour Enrolment
- Labour Pass Creation
- Web based Dashboard
- Report Generation
- Labour Enrolment
- Labour Pass Creation

## ROSTER MANAGEMENT (RSM)



COSEC Roster Management is an efficient tool to automate and plan workforce for improving productivity by proper forecasting and budgeting of staffing requirements. This system simplifies the process of defining and managing employees' duties. Managers can generate comprehensive workforce analysis reports and export data to third party applications.

- Employee Profile Creation
- Employment Type and Contract
- Attendance Policy
- Region based Labour Rules
- Special Days
- Fixed and Flexible Shifts
- Shift Pattern and Shift Matrix
- Multi-week Forecasting and Budgeting
- Roster Creation - Auto and Manual
- Department-wise Roster
- Attendance Correction
- Employee Portal
- Payroll Integration

## FIELD VISIT MANAGEMENT (FVM)



COSEC Field Visit Management is an easy tool to manage organizations having employees deployed in the field from a centrally located personnel. The software provides live tracking of field employee schedules via reports with real-time notifications on exceptions. Admin may set day-to-day work schedules and track the movement of field employees.

- Create Schedules of Individual Users
- Assignment of Daily Work Tasks
- View Field Visit Status
- Live Tracking of Schedule Status via Reports
- SMS and E-mail Notifications on Exception

## COSEC APTA



Matrix COSEC APTA is a comprehensive mobile-based employee portal offering COSEC users to monitor and manage all their time-attendance, leave and access control options. Employees and managers can access all their time-attendance information easily and perform related tasks remotely reducing a significant amount of time they spent on these issues.



QR Code based Access Control



Bluetooth based Access Control



Location Tracking Through GPS



Attendance on Move



Visitor Pre-registration



Cafeteria Management



Leave and Tour Application



Attendance Correction



Virtual ID Card

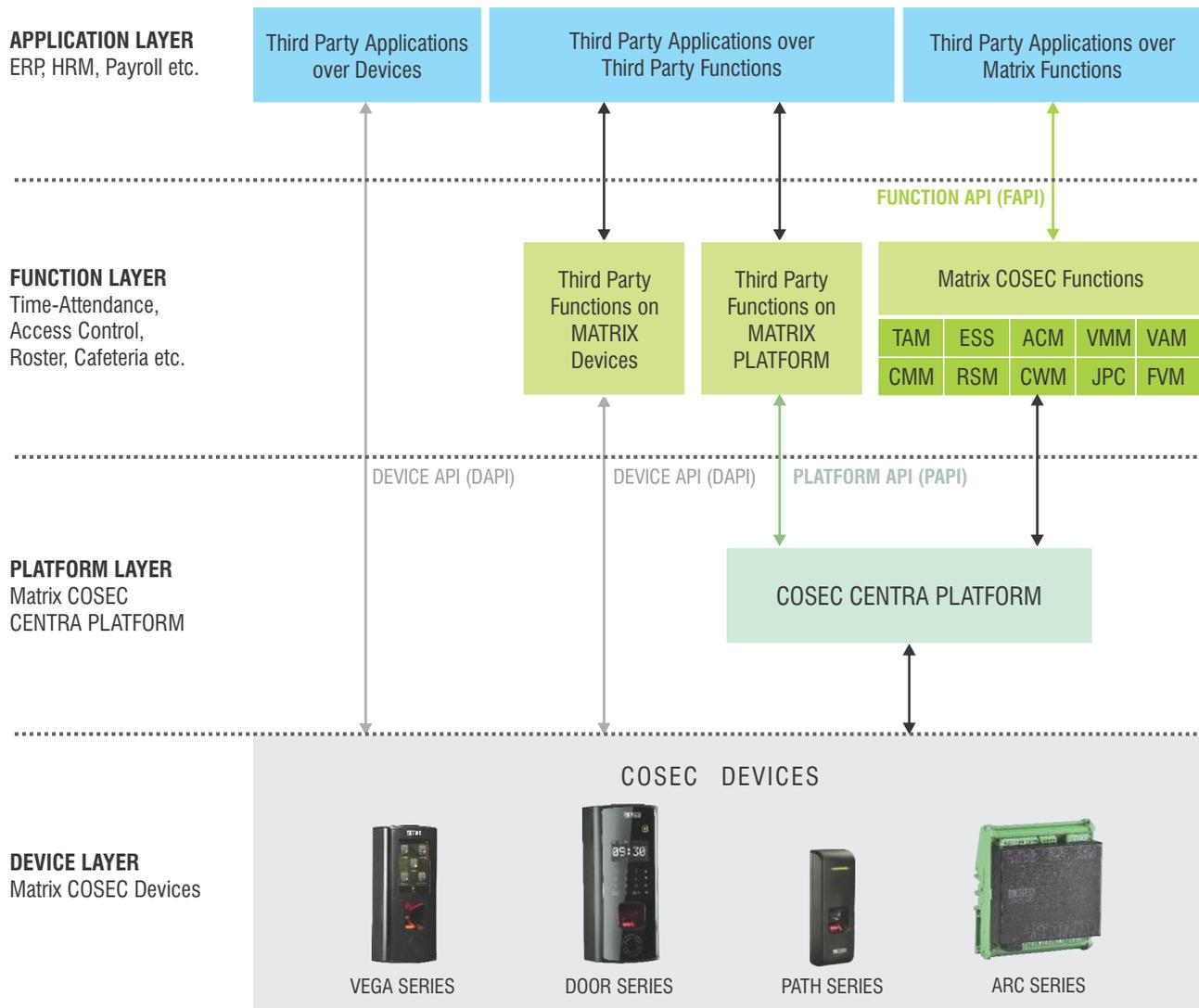


Add / Edit Personal Details



## MATRIX COSEC INTEGRATION

Matrix COSEC is designed in a way that it can be integrated with various third party applications software such as ERP, Payroll, HRM, etc. for salary generation using database to database, API and customized export templates methods. COSEC integration is shown in the image below:



### Device Level Integration

Matrix COSEC devices come ready with Device API for third party application developers, which allow them to develop their applications using Matrix COSEC devices. Matrix COSEC Device APIs (DAPI) allows other third party applications to communicate directly with the COSEC devices without requiring COSEC CENTRA.

### Platform Level Integration

Many application developers need application ready APIs. They expect the hardware vendors to manage device configuration, communication, enrolment and other lower-level tasks. This saves them from the complexity of physical interfaces, network management, communication, device configuration, template distribution, etc. For such developers, Matrix COSEC CENTRA offers Platform APIs (PAPI). Matrix COSEC CENTRA manages all the lower level tasks preventing the application developers from

performing the tedious lower-level software engineering and offers them application-ready interfaces for simple and quick programming. Using PAPI, they can build their applications like Time-Attendance, Access Control, Visitor Management, Cafeteria Management, Contract Workers Management and Roster Management integrating them with COSEC CENTRA.

### Function Level Integration

This is the highest level of interface Matrix COSEC offers for application to application integration. Using Function APIs (FAPI), Matrix COSEC functions like Time-Attendance can be integrated with other third party applications such as payroll, ERP, HRMS and CRM. Matrix COSEC is integrated with many widely popular applications like SAP, Oracle, Microsoft Dynamics NAV/AX, Tally and others.

## ORDERING INFORMATION

DOOR CONTROLLERS	
COSEC VEGA FAX	Fingerprint and Card based Door Controller with Touchscreen, IP65, Wi-Fi and 3G/4G Connectivity Option
COSEC VEGA CAX	Card based Door Controller with Touchscreen, IP65, Wi-Fi and 3G/4G Connectivity Option
COSEC DOOR PVR	Palm Vein and Card based Door Controller with Wi-Fi, LCD, Keypad and 3G/4G Connectivity Option
COSEC DOOR PVR ES	Palm Vein and Card based Door Controller with Hand Guide, Wi-Fi, LCD, Keypad and 3G/4G Connectivity Option
COSEC DOOR FMX	Multispectral Fingerprint and Card based Door Controller with Touchscreen, Wi-Fi and 3G/4G Connectivity Option
COSEC DOOR FOP	Fingerprint and Card based Door Controller with LCD, Keypad and USB
COSEC DOOR FOT	Fingerprint and Card based Time-Attendance Terminal with LCD, Keypad and USB
COSEC PATH DCFX*	Fingerprint and in-Built Card based Door Controller with PoE and IP65
COSEC PATH DCCX*	In-Built Card based Door Controller with PoE and IP65
COSEC ARC DC100P	Two Door Panel with PoE for Access Control Application
COSEC ARC DC100S	Two Door Panel with RS-485 for Access Control Application

READERS	
COSEC PATH RDFX*	Fingerprint and Card based Exit Reader with IP65
COSEC PATH RDCX*	Card based Exit Reader with IP65

ACCESSORIES	
COSEC PANEL LITE	Control Panel to Support Multiple Door Controllers for Advance Features
COSEC ARC I0800	8 Door input and output controller to control inputs and outputs of third party devices to perform multiple applications.
COSEC ENROLL PALM	USB based Palm Enrolment Station
COSEC ENROLL FINGER	USB based Fingerprint Enrolment Station
COSEC ENROLL FINGM	USB based Multispectral Fingerprint Enrolment Station
COSEC PSBB12V	Power Supply Battery Backup for Door Controllers
COSEC PATH BBU	Power Supply Battery Backup for PATH Series Door Controllers
COSEC VEGA BBU	Power Supply Battery Backup for VEGA Series Door Controllers
COSEC VEGA CPM EM PROX	EM Proximity Card Personality Reader Module for VEGA Series Door Controller
COSEC VEGA CPM MIFARE SMART	Mifare Smart Card Personality Reader Module for VEGA Series Door Controller
COSEC VEGA CPM HID iCLASS	HID iCLASS Smart Card Personality Reader Module for VEGA Series Door Controller
COSEC CPM EM PROX	EM Proximity Card Personality Reader Module
COSEC CPM MIFARE SMART	Mifare Smart Card Personality Reader Module
COSEC CPM HID iCLASS	HID iCLASS Smart Card Personality Reader Module

\*X- E, M, I where **E**-EM Prox **M**-Mifare Smart **I**-HID iCLASS

SOFTWARE	
COSEC CENTRA PE	Application Server Platform with 100 Users for basic Access Control and Raw Event Data
COSEC PE TAM	Time-Attendance Software Module for COSEC CENTRA PE Users
COSEC PE ESS	Employee Self Service Software Module for COSEC CENTRA PE Users
COSEC PE ACM	Access Control Software Module for COSEC CENTRA PE Users
COSEC PE VMM	Visitor Management Software Module for COSEC CENTRA PE Users
COSEC PE CMM	Cafeteria Management Software Module for COSEC CENTRA PE Users
COSEC PE RSM	Roster Management Software Module for COSEC CENTRA PE Users
COSEC PE CWM	Contract Workers Management Software Module for COSEC CENTRA PE Users
COSEC PE JPC	Job Processing and Costing Software Module for COSEC CENTRA PE Users
COSEC PE VAM	Vehicle Access Management Software Module for COSEC CENTRA PE Users
COSEC PE FVM	Field Visit Management Software Module for COSEC CENTRA PE Users
COSEC CENTRA GE PLATFORM	Application Server Platform with 100 Users and Expandable up to 500 Users for basic Access Control and Raw Event Data.
COSEC GE TAM	Time-Attendance Software Module for COSEC CENTRA GE Users
COSEC GE ESS	Employee Self Service Software Module for COSEC CENTRA GE Users
COSEC GE ACM	Access Control Software Module for COSEC CENTRA GE Users
COSEC GE VMM	Visitor Management Software Module for COSEC CENTRA GE Users
COSEC GE CMM	Cafeteria Management Software Module for COSEC CENTRA GE Users
COSEC GE RSM	Roster Management Software Module for COSEC CENTRA GE Users
COSEC GE CWM	Contract Workers Management Software Module for COSEC CENTRA GE Users
COSEC GE JPC	Job Processing and Costing Software Module for COSEC CENTRA GE Users
COSEC GE VAM	Vehicle Access Management Software Module for COSEC CENTRA GE Users
COSEC GE FVM	Field Visit Management Software Module for COSEC CENTRA GE Users
COSEC CENTRA ME PLATFORM	Application Server Platform with 500 Users and Expandable up to 1000 Users for basic Access Control and Raw Event Data.
COSEC ME TAM	Time-Attendance Software Module for COSEC CENTRA ME Users
COSEC ME ESS	Employee Self Service Software Module for COSEC CENTRA ME Users
COSEC GE ACM	Access Control Software Module for COSEC CENTRA ME Users
COSEC ME VMM	Visitor Management Software Module for COSEC CENTRA ME Users
COSEC ME CMM	Cafeteria Management Software Module for COSEC CENTRA ME Users
COSEC ME RSM	Roster Management Software Module for COSEC CENTRA ME Users
COSEC ME CWM	Contract Workers Management Software Module for COSEC CENTRA ME Users
COSEC ME JPC	Job Processing and Costing Software Module for COSEC CENTRA ME Users
COSEC ME VAM	Vehicle Access Management Software Module for COSEC CENTRA ME Users
COSEC ME FVM	Field Visit Management Software Module for COSEC CENTRA ME Users
COSEC CENTRA LE PLATFORM	Application Server Platform with 1000 Users and Expandable up to 1Million Users for basic Access Control and Raw Event Data
COSEC LE TAM	Time-Attendance Software Module for COSEC CENTRA LE Users
COSEC LE ESS	Employee Self Service Software Module for COSEC CENTRA LE Users
COSEC LE ACM	Access Control Software Module for COSEC CENTRA LE Users
COSEC LE VMM	Visitor Management Software Module for COSEC CENTRA LE Users
COSEC LE CMM	Cafeteria Management Software Module for COSEC CENTRA LE Users

SOFTWARE	
COSEC LE RSM	Roster Management Software Module for COSEC CENTRA LE Users
COSEC LE CWM	Contract Workers Management Software Module for COSEC CENTRA LE Users
COSEC LE JPC	Job Processing and Costing Software Module for COSEC CENTRA LE Users
COSEC LE VAM	Vehicle Access Management Software Module for COSEC CENTRA LE Users
COSEC LE FVM	Field Visit Management Software Module for COSEC CENTRA LE Users
COSEC USER100	100 Users License for COSEC CENTRA GE / ME / LE PLATFORM
COSEC LE USER1000	1000 Users License for COSEC CENTRA LE PLATFORM
COSEC LE USER10000	10000 Users License for COSEC CENTRA LE PLATFORM

## MATRIX COSEC CUSTOMERS

### MANUFACTURING

- Adani Enterprises Ltd.
- Coca Cola
- Ford Motors
- L&T Limited
- Linde Engineering
- TATA Steel
- Reliance Industries
- Tyco Electronics
- Seforge Limited
- AIA Engineering
- Gujarat Ambuja Exports
- Aujan, KSA
- Al Khodari, KSA
- ABB
- Hero Moto Corp
- Shakti Pumps

### GOVERNMENT

- Indian Air Force
- Ministry of Interiors, KSA
- BHEL
- Power Grid
- AP Police
- Dubai Statistics Center
- Jeevika Development Society

### BFSI

- State Bank of India
- Bandhan Bank
- Gruh Finance
- Mahindra Finance
- Shriram Finance
- HBD Bank
- Family Bank
- MISR Bank
- Indus Ind Bank

### EDUCATION

- British School
- MIT College
- Presidency Group of Colleges
- Indian Institute of Science
- Rishikul Vidyapeeth
- Andhra Pradesh University

### HEALTHCARE

- Gold's Gym
- Fortis Memorial
- Dr. Reddy's Foundation
- Apollo Health & Lifestyle
- CIIGMA
- VIVA Gym, South Africa

### IT

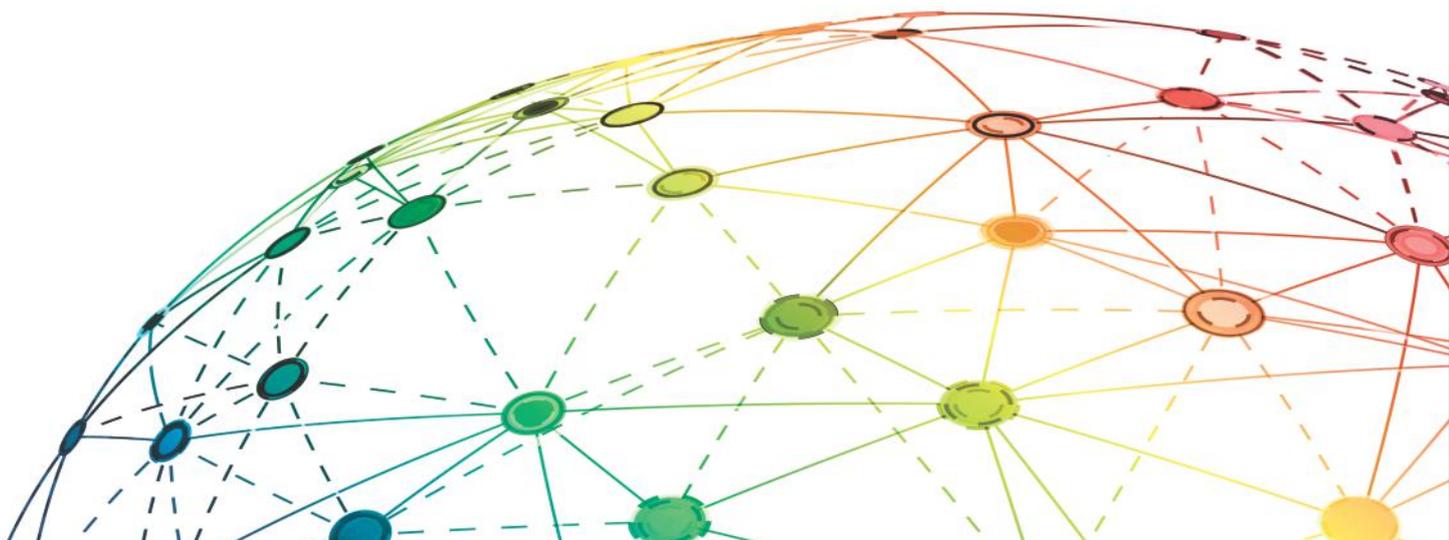
- Wipro
- Tata Consultancy Services
- Risk Management Solutions
- Intec Capital Ltd.
- YOU Telecom and Broadband

### CONSTRUCTION

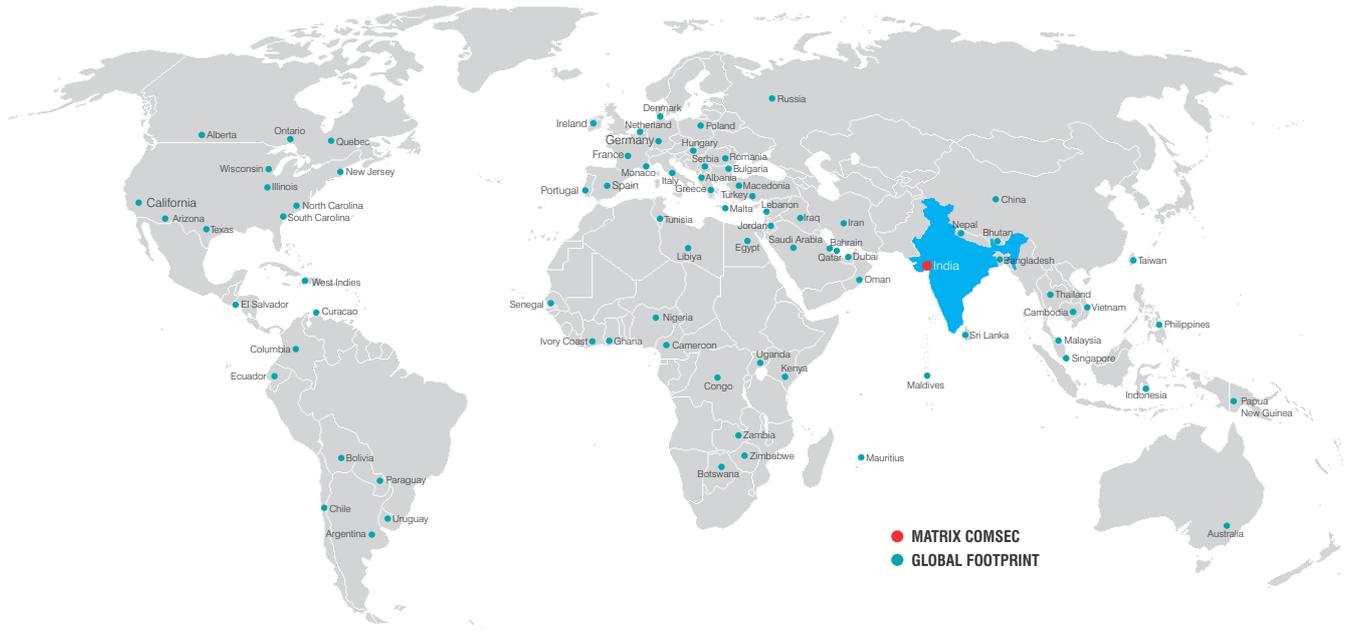
- Rustomjee Group
- Raheja Atlantis
- Shapoorji & Palanji
- Sterling & Wilson
- AFCONS Construction
- Hookmally Ali Ltd.

### OTHER SECTORS

- Khimji Ramdas, Oman
- Al Majdouie, KSA
- Al Khodari, KSA
- TCI
- Big Bazaar
- Burger King
- FedEx



# MATRIX NETWORK



## ABOUT MATRIX

Established in 1991, Matrix is a leader in Telecom and Security solutions for modern businesses and enterprises. An innovative, technology driven and customer focused organization; Matrix is committed to keep pace with the revolutions in the telecom and security industries. With more than 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like Video Surveillance solutions, Access Control, Time-Attendance, IP-PBX, Universal Gateways, Terminals, Convergence solution, VoIP Gateways and GSM Gateways. These solutions are feature-rich, reliable and conform to the international standards. Having global foot-prints in Asia, Europe, North America, South America and Africa through an extensive network of more than 500 channel partners, Matrix ensures that the products serve the needs of its customers faster and longer. Matrix has gained trust and admiration of customers representing the entire spectrum of industries. Matrix has won many international awards for its innovative products.



For further information, please contact:



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[www.MatrixSecuSol.com](http://www.MatrixSecuSol.com)

Due to continuous technology upgradations, product specifications are subject to change without notice.