

MATRIX[®] Matrix Access Control Solution

ESIMATE

SECURITY SOLUTIONS New-age Access Control Solutions for Modern Organizations

Why Matrix Access Control?

Why Access Control? Security





Material and Inventory



Portable Equipment & Machinery



Cash and Precious Metals



Intellectual Property: Software, Documents, Designs, Formulae, etc.



Data and IT

Why Access Control? Safety of People



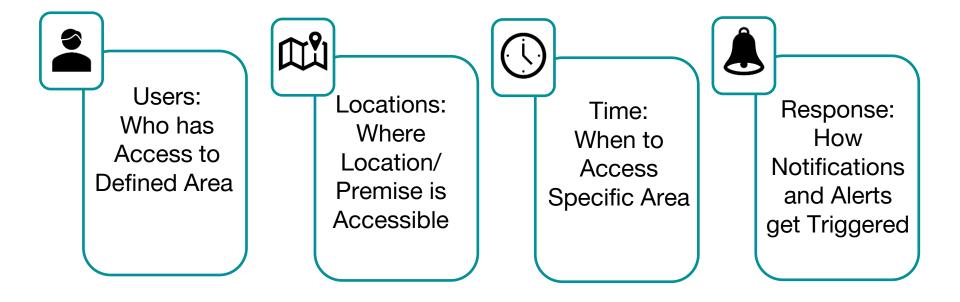
- Field/Remote/Secluded
 Offices
- Sensitive Operations
- Hazardous Areas
- Break-Ins; Robberies
- Accidents, etc.





Why Access Control? Control and Response





Why Access Control? Productivity





Schedule Entry-Exit as per Opening/Closing Hours Plan Manpower Availability (Who, Where and When)

Trace People and their Whereabouts (Gym, Cafeteria, etc.) Control Occupancy

Why Access Control? Compliance



- Hazardous Area
- Process Compliance
- Security Compliance



MATRIX COSEC ACS Introduction and Differentiators

Matrix ACS Introduction



- End-to-End Access Control Solution (Panel, Controllers, Readers, etc.)
- RFID Cards, Fingerprint, Face and Mobile as User Credentials
- Distributed Architecture on Ethernet, CAT6 and PoE+
- Simple to Deploy and Use
- Flexible Access Policies
- 25+ Access Control Features
- Web based Configuration (Server PC or Software Not Required)
- Open Integration

Matrix ACS Differentiators: Single-Source Solution









Matrix Offers All ACS Building Blocks

Panels, Controllers, Readers, Software, Apps **Tighter Integration**

Seamless Interoperation

Matrix ACS Differentiators: New-age RF Card Credentials







Proximity

Smart Card

Matrix ACS Differentiators: New-age Mobile Credentials





Mobile PIN

Mobile Face Recognition

Mobile BLE

Mobile QR Code

Matrix ACS Differentiators: New-age Biometric Credentials







Fingerprint

Face Recognition

Matrix ACS Differentiators: Core-to-Door IP Technology

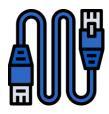




IP Networking



Zero Maintenance and Higher Uptime



Universal CAT6 Structured Cabling



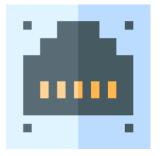
Lower Cost



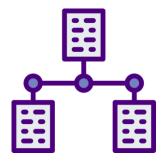
Standardization of Infrastructure and Skills

Matrix ACS Differentiators: Multiple Connectivity Options





Panel to Controllers: Ethernet with PoE+ and RS-485



Controllers to Readers: Wiegand, RS-485 and RS-232



External Wi-Fi, BLE or 3G/4G USB Dongle

Matrix ACS Differentiators: PoE+ Panels and Controllers



- PoE+ for Panel, Controllers, Readers and Locks
- Centralized Power Supply and UPS
- Eliminate Separate Power Supply Cabling
- Quick Installation
- Industry-Standard Infrastructure
- Lower Cost
- Lower Maintenance
- Higher Uptime

Matrix ACS Differentiators: Support for Third-Party Readers

- Industry-Standard Wiegand Interface for Third-party Readers
- New Installations: Flexibility to Choose Third-Party Readers
- Upgrades and Expansion: Reuse Existing Readers to Protect Investment
- Flexibility to Deploy Cards, Face, Fingerprint and Mobile Credentials
- No Need to Change Cards or Re-Enroll All Users
- Coexistence of Third-Party and Matrix Readers
- Easy Migration to Matrix ACS







Matrix ACS Differentiators: Plug-and-Play



- Standard, Simple CAT6 Cabling
- No Need for Power Supply Cabling
- Power and UPS through PoE Switches
- No Server PC or Software Installation
- Easy Simple Web Configuration
- Auto Search Controllers and Readers
- Automatic Distribution of User Credentials
- Lower Installation Time and Cost
- Intuitive and Easy Configuration

Matrix ACS Differentiators: Encrypted Communication





SSL based

Encryption



Snoop-Proof and Hack-Proof



Higher Security

Matrix ACS Differentiators: Events Management



In Out Event Report

500,000 Entry/Exit Events Log

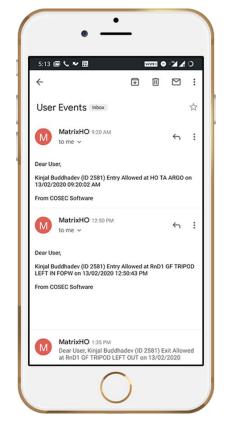
- Events View and Download Options
- Automatic and Manual Backup Options
- Events Backup and Restore
- Backup over FTP
- Easy and Quick Analysis
- Security of Events Data

	Ma	Page 1 of 270				
User	-Wise In/Out Ev					
Run by: S	ystem Admin	Dute: 7/10/2013	10:03			
Sr No	Date	Time	Туре	Panel/Door	Special Functi	ion
SALIM A	NSARI					
1	02/07/2013	08:29	IN	Factory Panel-Production 1		
2	02/07/2013	12:20	114	Factory Panel-Production- 2		
3	02/07/2013	15:13	111	Factory Panel-Production- 2		
4	02/07/2013	15:22	574	Factory Panel-Production-2		
5	02/07/2013	17:02	104	Factory Panel Production-2		
6	03/07/2013	08:28	104	Factory Panel-Production- 2		
7	03/07/2013	12:09	174	Factory Panel-Production 1		
8	03/07/2013	12:34	IN	Factory Panel-Production 1		
. 9	03/07/2013	15:00	OUT	Factory Panel-Production 1	Short Leave - 6	TUC
10	04/07/2013	08:29	IN	Factory Panel Production 1		
11	04/07/2013	12:09	IN.	Factory Panel-Production 1		
22	04/07/2013	12:35	IN	Factory Panel-Production 1		
13	04/07/2013	17:03	IN	Factory Panel-Production 1		
14	05/07/2013	08:27	IN.	Factory Panel-Production 1		
15	05/07/2013	12:17	IN	Factory Panel-Production 1		
16	05/07/2013	12:36	IN	Factory Panel-Production 1		
17	05/07/2013	17:02	IN	Factory Panel-Production 1		
18	06/07/2013	08:31	IN	Factory Panel-Production 1		
19	06/07/2013	12:10	IN	Factory Panel-Production 1		
20	06/07/2013	12:33	IN	Factory Panel-Production 1		
21	06/07/2013	16:03	IN	Factory Panel-Production 1		
22	08/07/2013	08:33	IN	Factory Panel-Production 1		
23	08/07/2013	12:27	114	Factory Panel-Production 1		
24	08/07/2013	17:04	104	Factory Panel-Production 1		
25	09/07/2013	08:29	154	Factory Panel-Production 1		

generates a list of all entry and exit events of the selected users.

Matrix ACS Differentiators: Alerts and Notifications

- Comprehensive and Programmable Alerts and Notifications
- Entry-Exit Events
- Access Violations and Exceptions
- Device Failures, etc.
- Notifications through Emails and SMS
- Quick Response to Security Violations and Exceptions



Matrix ACS Differentiators: Configuration Management

- Use Any Web Browser for System Configuration •
- Configuration Backup ٠
- Automatic and Manual Backup Options
- External Modem or Telephone/GSM Connection Not • Needed Panel Report
- Easy and Quick Configuration Restore ٠
- Security of Configuration Data .
- Compliance for Mission-Critical ٠ Applications

The COSEC system enables the user to extract a detailed listing of the configured Panel as shown in following reports.

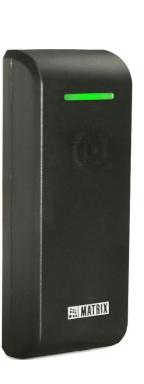
Matrix Comsec Pvt. Ltd. Panel							Page 1 of 1		
Sr No	10	Name	IF Address	Subret Mask	MAC Address	Working Hrs	Break Hrs	Status	
1	3	HO Panel Lite	232.368.50.202	255 255 255 0	00:15:09:00:99:58	00:00-23:59	13:00-10:00	Acine	
	4	Factory Panel	192,168,30,20	255 255 255 0	0010-0914-59109	00:00-23:59	13:00-14:00	Active	



Matrix ACS Differentiators: IP65 Readers

SECURITY SOLUTIONS

- COSEC PATH RDFx: IP65
- COSEC PATH RDCx: IP65
- Suitable for All Weather Conditions
- Tamper Detection

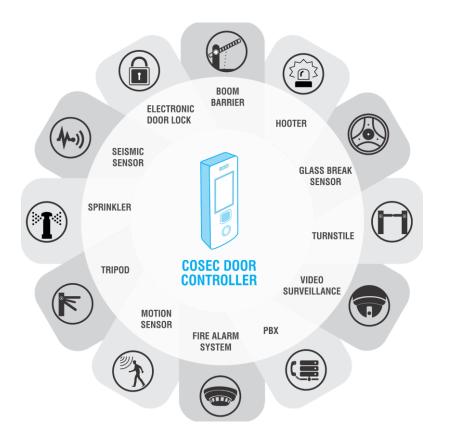




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Matrix ACS Differentiators: Open System Integration

- Open API for Hardware Integration
- Integration with Fire Alarm, Video Surveillance, BMS, etc.
- Integration with Attendance, Payroll and ERP
- SNMP Support for Third-Party NMS
- Seamless Integration





Matrix ACS Differentiators: Additional Applications

- Time-Attendance
- Access Control
- Visitor Management
- Cafeteria Management
- Job Processing & Management
- Field Visit Management
- Contract Workers

Management





Storage Options



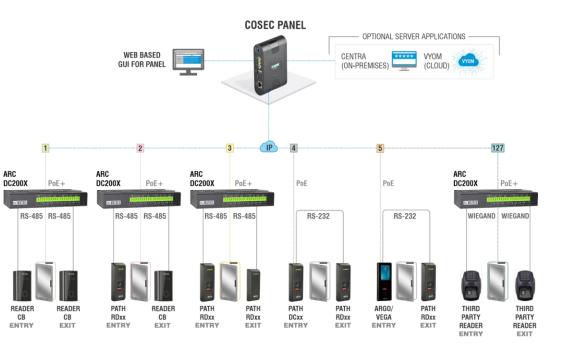




Matrix ACS Differentiators: Scalability



- Panel as Site Control
- Normally, Single Panel per Site
- 1 to 255 Doors per Panel
- 1 to 25,000 Users per Panel
- COSEC CENTRA to Network
 Multiple Panels
- Centralized Control and Management



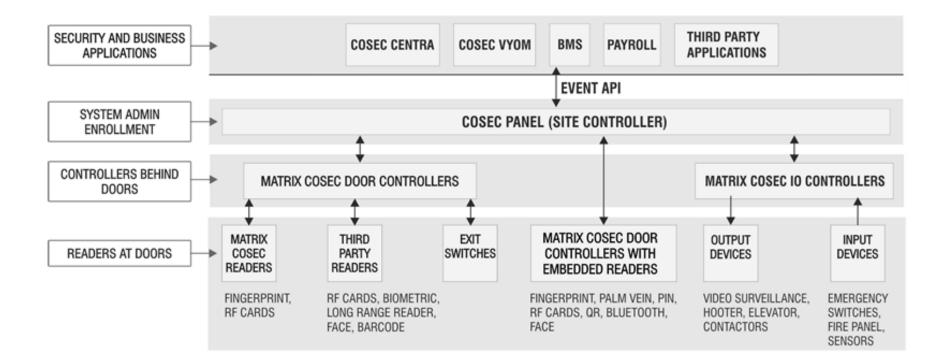
Matrix ACS Differentiators: Traditional v/s Matrix COSEC

TRADITIONAL ACCESS CONTROL	MATRIX ACCESS CONTROL
Traditional RFID Cards and PIN Credentials	Face Recognition, Fingerprint, RFID, Mobile, PIN and QR
PC and Software Installation Required	All-integrated, Self-contained Solution without Need for PC
Cabling: Bulky, Proprietary, Failure-prone and Expensive	CAT6 with PoE and PoE+
UPS and Batteries for Panels	Centralized Power and UPS
Limited Access Control Features	25+ Access Control Features

Matrix Access Control Architecture and Building Blocks

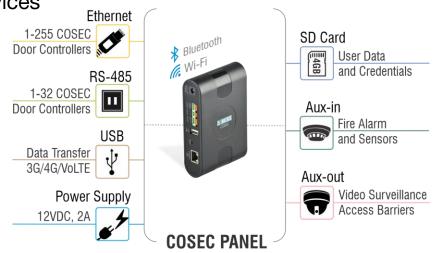
Matrix Access Control Architecture





Matrix ACS Building Blocks: COSEC PANEL

- A Site Controller with Higher Capacity
- Manages Up-to 255 Doors, Up-to 25,000 Users and 500,000 Event Buffer
- Seamless Integration with Third-party Devices
- Built-in Wi-Fi and Bluetooth

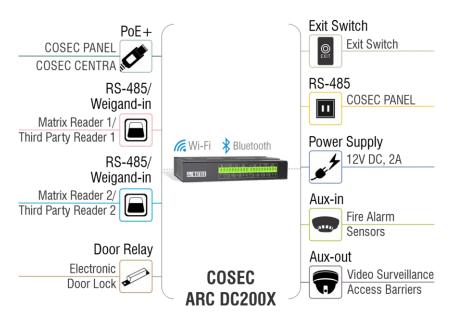




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Matrix ACS Building Blocks: COSEC ARC DC200P

- Door Controller Designed on Distributed "Core-to-the-Door IP" Technology
- Higher Capacity
- Secured Communication
- Variants: ARC DC200S and ARC DC200P
- ARC DC200P comes with built-in Wi-Fi and BLE





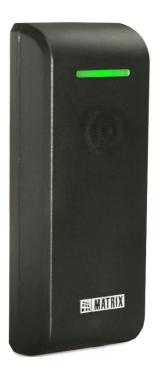
Matrix ACS Building Blocks: COSEC PATH RDFX

- Compact Fingerprint and RFID Card Reader
- Comes with IP65
- Easy to Install and Use
- RS-232 and RS-485
- Supports Proximity (EM Prox and HID Prox) and Smart (MIFARE® and HID iCLASS) Card



Matrix ACS Building Blocks: COSEC PATH RDCX

- Compact RFID Card Reader
- Comes with IP65
- Easy to Install and Use
- RS-232 and RS-485
- Supports Proximity (EM Prox) and Smart (MIFARE® and HID iCLASS) Card





Matrix ACS Building Blocks: COSEC ATOM



- Bluetooth based Credentials
 - Your Mobile is Your Identity
 - Fast User Identification
- Multiple RFID Card Support
- PIN Support (Optional)



Matrix ACS Building Blocks: MOBILE APP ACS

- Perfect for Bluetooth based Access ٠ Control through Mobile
- Access by Shaking Mobile in the Range of Bluetooth Enabled Devices
- Your Mobile is Your Identity •
- Use Your Phone Instead of Smart Card
- Android Version 5.0 and above
- iOS 9.0 and above





Matrix ACS Building Blocks: COSEC ARC IO800



- A Compact Input-Output Controller
- Elevator/Floor Access Control
- Seamless Integration with Third-party Devices such as Fire Alarm Bell,



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Matrix ACS Building Blocks: COSEC CENTRA/VYOM



- COSEC CENTRA: On-Premise, Single-Tenant Server Application
- COSEC VYOM: Cloud, Multi-Tenant Server Application
- Seamless Integration with Third-party Devices and
 - Application/Payroll System

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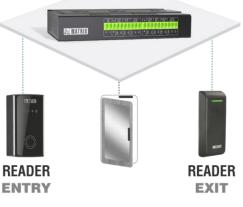
Matrix ACS DEPLOYMENT: TWO-WAY ACCESS



- Allows Entry and Exit Only to Authorized Users
- Requires Two Readers for Every Door
- One to Control Entry and the Second to Control

Exit

COSEC ARC DC200X



CONNECTIVITY OPTIONS FOR READERS:

- COSEC READER RS-232/RS-485
- THIRD-PARTY READER WIEGAND

Matrix ACS DEPLOYMENT: ONE-WAY ACCESS



- Entry to Only Authorized Users
- Allows Everyone to Exit
- Requires a COSEC Reader at the Entrance and a Push-Button Switch at the Exit



COSEC ARC DC200X

CONNECTIVITY OPTIONS FOR READERS:

- COSEC READER RS-232/RS-485
- THIRD-PARTY READER WIEGAND

Matrix ACS Certifications





MATRIX ACS FEATURES

MATRIX ACS Features: Access Zones, Access Modes etc.





Zone Specific Access: User can enter only designated zones



Access Mode: Control entry with a single or a combination of user credentials



Access Level: Allow or restrict users based on their roles or levels



VIP Access: A user with VIP access can enter any controlled area

MATRIX ACS Features: First-in User Rule, Access Mode etc.





First-in User Rule: Normal users are allowed only after the designated first-in user has entered



Access Mode: Stops one individual to enter high-security area alone. Allows two people (from a predefined group) together if they enter within specified duration



Guard Tour: Requires security guards to show their credentials at sequential check posts at specified time periods



Centralized Monitoring and Control: Live status of all the controllers, alarms, input-output ports at one place. Also, control doors, alarms and user credentials from a central location

MATRIX ACS Features: Dead-man Zone, Access Route etc.





Dead-man Zone: Registers user's presence periodically to confirm the user is present and active. Ensures safety of an employee working in a hazardous environment



Anti-passback with Local/Global and Soft/Hard Options: Prevents second entry for a user until the user has exited to eliminate multiple entries using one user's credentials



Do Not Disturb (DND) Zone: Stops anyone entering a Do Not Disturb zone. Useful for private offices, meeting-conference rooms



Access Route: Forces users to follow predefined path to reach their destination. Prevents loitering or jaywalking

MATRIX ACS Features: Occupancy Control, Smart Identification etc.





Occupancy Control: Control the number of users allowed to enter a zone



Smart Identification: Stores users' credentials on the smart card (RF). COSEC first reads the user's credentials from the card and then prompts the user to show credentials



Blocked User: Suspend a user's access rights for a defined period

MATRIX ACS Features: Who's-In, Smart Identifiction etc.





Time Stamping: Trigger video surveillance to take a snapshot of the person while accessing a door. Generate reports with such photographs



Who's-In: Allows security or admin to determine the users present inside a zone or building



Input-Output Linking: COSEC supports an additional layer of automated security by activating a designated output port or sending a notification when triggered by a preconfigured input or an event

MATRIX ACS Features: Mantrap, Door Interlocking etc.



Mantrap: Many applications require arranging two or more doors in a proximity sequence to prevent direct air passage. The second door opens only after the first door has completely closed



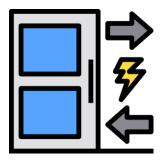
Door Interlocking: COSEC offers user-programmable flexible interlocking logic for multiple doors to meet complex, industry-specific needs such as R&D, pharma labs, semiconductor foundries, chemical plants, etc



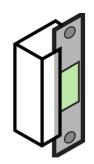
Elevator Access Control: COSEC supports an additional layer of automated security by activating a designated output port or sending a notification when triggered by a pre-configured input or an event

MATRIX ACS: Doors, Locks and Barriers





Sliding Doors



(EM) Magnetic Locks,

Electric Strikes,

Bolt Locks,

Electric Cylindrical Locks

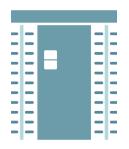
Server Rack Cabinet Locks

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Speed gates, Flap Barrier, Swing Panels

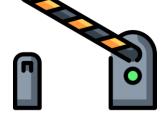
MATRIX ACS: Doors, Locks and Barriers





Glass Pass Turnstile





Tripod Turnstile

Boom Barrier

Matrix Access Control: Ordering Information

Ordering Information: COSEC ACS Kits



Sr No	Product Variants	Description	PANEL 200P	ARC DC200P	ATOM RD100M	PATH RDFM
1	ACS2DCM	2-Door Card based One Way ACS	1	1	2	
2	ACS4DCM	4-Door Card based One Way ACS	1	2	4	
3	ACS8DCM	8-Door Card based One Way ACS	1	4	8	
4	ACS2DFP	2-Door Fingerprint and Card based One Way ACS	1	1		2
5	ACS4DFP	4-Door Fingerprint and Card based One Way ACS	1	2		4
6	ACS8DFP	8-Door Fingerprint and Card based One Way ACS	1	4		8

Ordering Information: Building Blocks

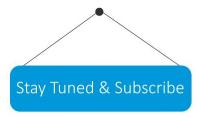


Sr. No.	Product Name	Description
1	COSEC PANEL	One Site Controller for Every Building or Location up to 255 Doors
2	COSEC ARC DC200P	One Controller For Every 2 Readers
3	COSEC ARC IO800	A Compact Input-Output Controller
4	COSEC ARGO	Door Controller with Built-in Fingerprint Reader and Card Readers with PoE, Wi-Fi, Bluetooth
5	COSEC VEGA XXX	Door Controller with Built-in Fingerprint Reader and Card Readers with PoE, Wi-Fi, Bluetooth
6	COSEC PATH DCXX	Door Controller with Fingerprint and RF Card Support
7	COSEC PATH RDXX	Reader with Fingerprint and RF Card Support
8	COSEC ATOM	Contactless Reader with Bluetooth Credentials & Card Credentials

Who Are We

1 Million + Customers **2,500+** Partners <mark>60+</mark> Products

50+ Countries







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THANK YOU!



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