

COSEC Access Control

Right People in Right Place at Right Time

EXPECT MORE.

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WHY to Choose Access Control?



- Still Relying on Security Personal for Organization Security
- Using Traditional RFID Card Solution
- Using Access Control with Basic Features
- Taking Actions After the Incident Happens
- Managing Devices from Separate Locations
- Want to Integrate Other Devices
- Absence of Big Data, answering Questions to Who, When,
 Where

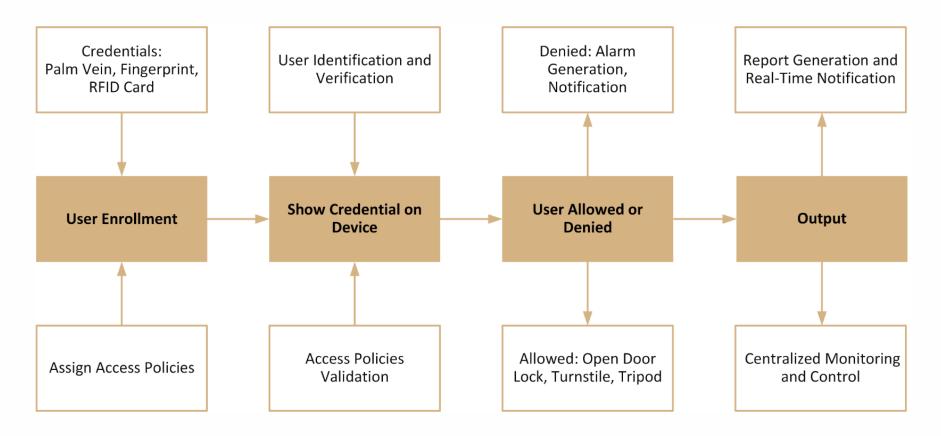
WHAT Access Control Does?



- Restrict Unauthorized Access in Secured Area
- User Access on Advance Biometric Technology
- Restrict User Access based on User, Zone and Time
- Require Advance Access Control Features
- Centralized Monitoring and Control
- Real-Time Notifications on Exception
- Integrate with Video Surveillance and other Devices
- Conglomerates Multiple branches into One Platform

HOW Access Control Works?









Higher Security

- **Restricts** Unauthorized Access
- Intacts Security of Multiple Location in Single Software
- Protects Dimension of Time, Organization Hierarchy and Asset Classification





Multiple Credentials

- Multiple Credential Access
- Biometrics: Palm Vein and Fingerprint





Easy Scalability

- Scalable Solution
- Supports up to 65,000 Devices





Higher Flexibility

- Higher Security with 3rd Party Hardware Integration
- Inbuilt "Alerts" Functionality Sending Notifications when Required





More Reliability

- A Comprehensive Solution for Enterprises, SME and SOHO
- Rich Functionality with Simple Configuration





Advance Features

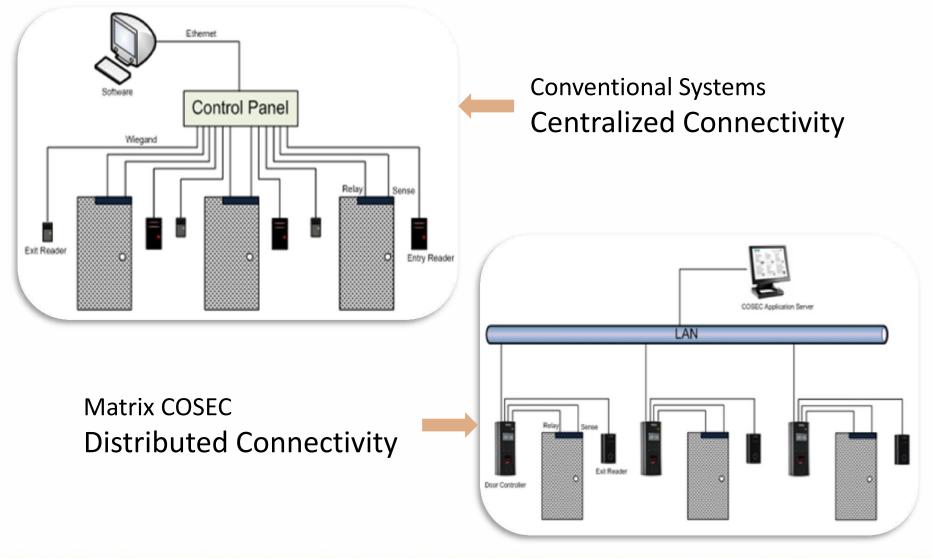
• 25+ Access Control Security Features



COSEC Access Control

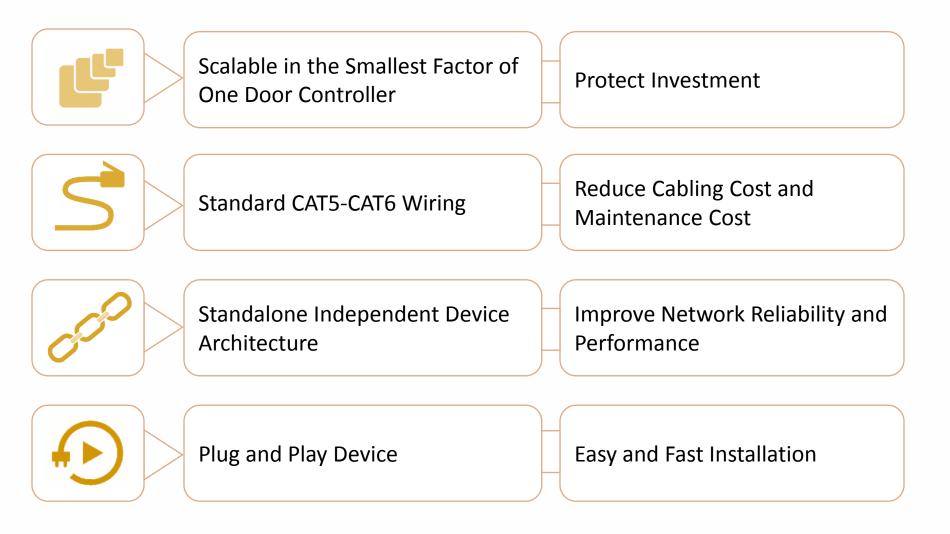
COSEC Architecture





COSEC Architecture Benefits







DOOR Series

PATH Series

VEGA Series

NGT Series

COSEC Readers





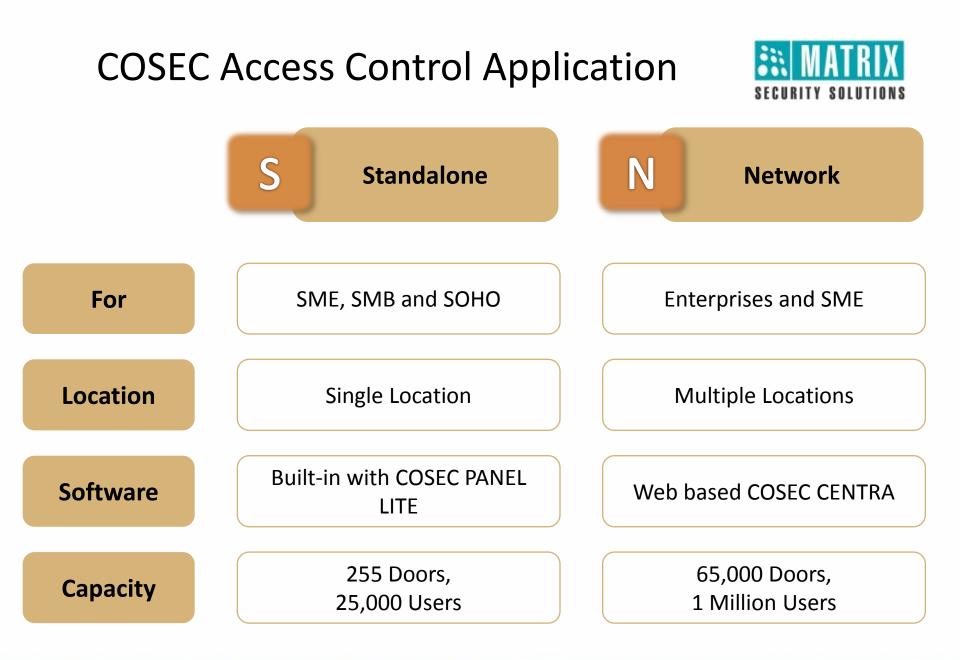


Fingerprint and Card based Card

Card based



Application



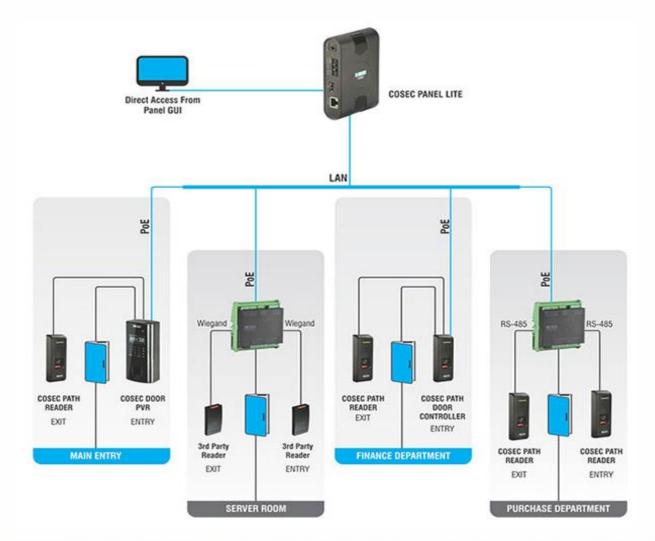
Access Control Standalone Mode



- Access Control Solution without any Software
- Up to 255 Devices and 25,000 Users
- Devices: Site Controller (COSEC PANEL LITE), Door Controller and Readers
- Access from PANEL GUI
 - ✓ Door Configuration
 - ✓ Policy Configuration and Assignment
 - ✓ User Profile Creation and Enrollment
 - ✓ Alarm Monitoring and Control
 - ✓ Generation of Reports

Standalone Mode - Architecture





Standalone Mode – Benefits



Advantages	Benefits
Control up to 255 Doors from a Single IP Panel	Eliminate Need for Multiple Panels
Leverage IP Technology	Standard Structured Cabling, Higher Reliability
Connect Existing 3 rd Party Readers	Protect Investment in Existing Readers
PoE Door Controller for Powering Readers and Lock	Simplified Installation, High Reliability
Standalone Operation without Server	Eliminate Server Cost
Scalable for Future Expansion	Optimum Investment

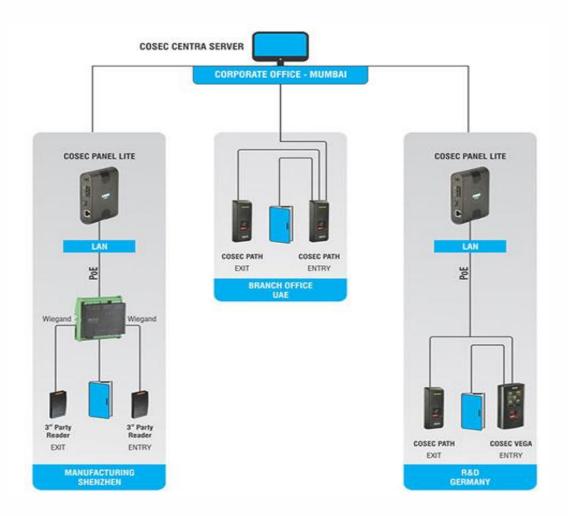
Access Control Network Mode



- Centralized Monitoring and Control from Web based Server
- Access Control for 65,000 Devices and 1 Million Users
- Real Time Data Transfer to Server
- Advance Features Like Guard Tour, 2-Person Rule, Man Trap etc.
- Integration with 3rd Party Hardware
- Informative Reports like
 - ✓ Access Zone
 - ✓ Time Zone
 - ✓ Guard Tour
 - ✓ Door Held Open
 - ✓ Who Is In

Network Mode - Architecture





Network Mode – Benefits



Advantages	Benefits
Integration of All Locations	Complete Visibility and Better Control
Centralized Management with Local Execution	Facilitate Centralized Process as well as Local Activities Like Enrollment
Real-Time Dashboard Views, SMS and E-Mail Notifications	Faster Response to Exceptional Situations
Connect 3 rd Party Readers	Protect Existing Investment
Advance Access Control Features Like 2-Person, First-In User, Guard Tour, Man Trap for Sensitive Zones	Additional Security for Sensitive Zones
Integration with Video Surveillance and Other Applications	Tighter Integration for Value-Added Functions and Enhanced Security



Single Door Access Control Solution

Single Door Access Control Benefits





Scalable

Scalable in the Smallest Factor of One Door Up to 255 Devices with PANEL LITE



Flexible

Install Near the Door Reduce Complex Wiring



High Security Biometric Palm Vein and Fingerprint Reader Advance Access Control Features



Reliable

Single Independent Door with Distributed Architecture Standard IP based Wiring



Eliminate Extra Cost

Control 255 Devices without Installing any Server No Need of Local Power Point or Backup, Having PoE

Single Door Panel Vs Multi Door Panel

Single Door IP Panel	Traditional Multi Door Panel
Distributed Architecture; Robust Security	Single-Point of Failure
Compact, Modular and Easy to Scale	Location of a Multi-Door Panel Restricts adding New Doors Due to Distance and Wiring Constraints
Industry-Standard DIN Rail Mounting	Non-Standard Wall Mounting
COSEC PANEL Integrates Up to 255 Door Controllers with Value-Added Features	Support for 4, 8 and 16 Readers are Most Common Configurations
Centralized Management Using COSEC PANEL Web Pages from anywhere	Dedicated Software to Manage Multiple Panels

Single Door Panel Vs Multi Door Panel

Single Door IP Panel	Traditional Multi Door Panel
IP Technology on Existing LAN-WAN	Non-Standard and Proprietary Networking
Industry-Standard CAT5 and CAT6 Wiring	Proprietary, Non-Standard Multi-Core, Long and Expensive Wiring
Installation Near the Door Reduces Wiring and Improves Reliability	Panel Installed in a Central/Server Room Far from all the Doors
PoE Powers PANEL, Readers and Lock; no Need of Local Power Point or Backup	Power is Fed either from Central Location or Multiple Power-Points
Neat, Elegant, Reliable and Easy-To- Maintain Installation	Clumsy, Failure-Prone Installation



Case Study

COSEC Access Control at Ellams, Kenya

Applications:

Access Control for Manufacturing Unit

Technology:

- Fingerprint
- Smart Card

Matrix Offering:

- Devices: 30+
- Users: 100+
- Location: Single (Kenya)

Benefits:

- Fool-Proof Security in Premises
- Proactive Access Control
- Enhance Security by Integration

Solutions Offered:

- Integration with Beam Detector
- Access based on 2-Person Rule
- Allow Entry/Exit based on Occupancy in Zone
- Route based Access Control
- Restrict Intruder from Escaping Using Man-Trap
- Alarm on Access Rule Violation
- Control, Acknowledge, Clear and Monitor Alarm in a Real-time
- Integration with Video Surveillance
- Arm and Dis-Arm Cameras based on Occupancy
- Dead Man Alarm for Security Cabin's Access Rule Violation

COSEC Access Control at Adani



Applications:

Access Control for Multi - Location Site

Technology:

- Fingerprint
- Smart Card

Matrix Offering:

- Devices: 600+
- Users: 1200+
- Location: 25+ Business Units

Solutions Offered:

- Integration with Boom Barrier and Turnstile
- Access based on 2-Person Rule
- Route based Access Control
- Restrict Intruder from Escaping Using Man-Trap
- Alarm on Access Rule Violation
- Control, Acknowledge, Clear and Monitor Alarm in a Real-time
- Dead Man Alarm for Security Cabin's Access Rule Violation

Benefits:

- Increase Security of Business by 15%
- Reduce time of Security Department using Centralized Control and Monitoring
- Enhance Security by Integration

Our Prestigious Customers

- Adani Enterprises Ltd.
- Real Image Media Technologies Pvt. Ltd.
- Apollo Micro Systems Pvt. Ltd.
- Tata Motors Ltd.
- Gujarat Ambuja Exports Ltd.
- ABB India Ltd.
- RG Group
- Greenko Power
- Cygnet Infotech Pvt. Ltd.





Advance Access Control Features Keeping Organizations Secure!

Feature List



- <u>Access Mode</u>
- <u>2-Person Rule</u>
- First-In User
- Guard Tour
- <u>Anti-Pass Back</u>
- <u>Alarm</u>
- Occupancy Control
- <u>Reports</u>
- Hardware Integration
- Live Monitoring

- <u>Tamper Detection</u>
- VIP Access
- Man Trap
- Dead Man Zone
- Duress Detection
- <u>Smart Access Route</u>
- Smart Identification
- Access Level, Access Zone
- Blocked User

... and many MORE

Access Mode



- Various Access Modes for Accessing Area
- More than One Mode for High Security
 - ✓ Card
 - ✓ Biometric
 - ✓ PIN + Card + Biometric
 ✓ Biometric + PIN
- \checkmark Card + Biometric
- \checkmark Card + PIN

 - ✓ Any



Biometric: Fingerprint & Palm Vein

2-Person Rule



- Access when Two Authorized Users Use Access Rights within a Specified Time
- Up to 16 Groups with 20 Users in Each Group
- Useful for High Security Areas like ATM, Server Room, Safe
 Deposit Vault, R&D Lab etc.

First-In User Rule



- Restrict User till Authorized User Makes First Entry
- Other Users can Enter Only For Specific Time After First User Access
- 4 First-in User Lists with 25 Users in Each List
- Useful for Chemical Plant, Hazardous Areas etc

Guard Tour



- Enforce Vigil Patrol of Security Guards
- Guard has to Show Credential at Defined Check Points on
 - Specified Time Period
- Any Deviation Triggers Alarm or Notifications for Instant Security Action





2:30

1:00

Anti-Pass Back



Prevent a Card Holder from Passing his Card to a Second

Person to Gain Entry in a Controlled Area

- Second Entry Using the Same Card is Allowed Only After an Exit is Registered for Every Entry
- Two Modes:

✓ Anti-Pass Back Local
 ✓ Anti-Pass Back Global

- Two Types:
 - ✓ Hard Anti-Pass Back
 - ✓ Soft Anti-Pass Back

Alarm on Access Rule Violation



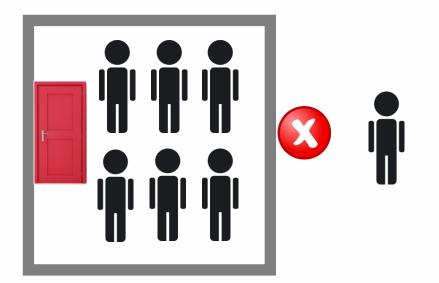
- Various Alarms on Pre-defined Situations
- Available on both Door Controllers and Site Controller
- Built-in Alarm Detection and Management
- Alarm on Access Rule Violation Like Guard Tour, Dead Man Zone, Access Route Violation
- Helps to Take Immediate Security Actions
- Real-Time Notification on SMS & E-mail



Occupancy Control



- Controls Number of Users in a Designated Zone
- Restricts the Entry After Count Reaches Maximum Limit
- Useful in Conference Hall, Cafeteria, Seminar Hall etc.



Integration with other Hardware



- Automatically Activate O/P Port on Activation of I/P Port to Notify Authorized Person
- Ensure Higher Security with:
 - ✓ Unlock Door on Fire Detection
 - ✓ Capture User Photo when He is Allowed
 - ✓ Generates Siren on Fire Detection
 - ✓ Start Video Recording on any Motion Detected



Integration with Other Hardware





Live Monitoring Window



- Real-Time Events Monitoring and Control
- Live Status of Door Controllers and Site Controller
- Alarm Monitoring and Control
- Temporary Deactivate Function/Features
- Auxiliary Input and Output Status
- Automatic Events Download



Tamper Detection



- System Generates Alarm on Detection of any Tampering
- Generates Alarm for Instant Security Actions
- Alarm can be Disabled Temporarily for Maintenance Purpose

VIP Access

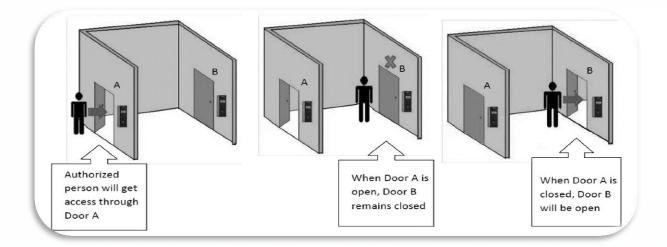


- Highest Level of Access Privilege
- Allow Access to Any Controlled Area Without Checking Access Rights
- Any Person Holding VIP Access has Highest Access Level (15)
- Useful For Director, CEO and any VIP Guest

Man-Trap



- Useful When Multiple Doors are Arranged in a Sequence
- 2nd Door Opens Only After 1st Door gets Closed Completely
- Manage Traffic, Control Dust and Heat
- Restrict Intruder from Escaping the Premises Quickly



Dead-Man Zone



- User has to Show Credential at Pre-defined Time Interval to Ensure his Presence
- Alarm is Activated If User Fails to Punch at Pre-defined Time
- Useful in Mines, Chemical Plants, Nuclear Lab etc.

Duress Detection



- User Need to Dial his Access Code Followed by a Secret
 Code for Duress Detection
- Useful Feature When User is Forced to Use his Access
 Rights Under Threat
- System Opens the Door and at the Same Time Notifies
 Concerned Person without Giving any Local Alarm



Access Route



- User can Access Devices in a Specific Sequence (Route) only
- Route Information is Stored in Smart Card
- User's Information Stored in the Smart Card is Verified
- Cannot Access Devices which are not Part of His Route or Out of Sequence
- Useful for Large and Sensitive Areas Like Ports, Mines,
 Pharmaceutical Labs and R&D Centers



Smart Identification



- Useful When Number of Users Exceeds the Device Capacity
- User's Credential Details are Stored in Card
- User has to First Show Smart Card Following His Credential
- COSEC Allows Access and Mark Attendance based on Result

Access Level



- Allow User If User Access Level is Higher or Equal to Zone Access Level
- Up to 15 Access Levels for Zones and Users
- Different Access Levels During Working Hours, Break Hours and Non-working Hours



Access Level



User Access Level =>8



Zone Access Level = 8

Access Zone



- Controlled Area to Keep Out Unauthorized Users
- Creation of Sub Zones or Logical Zones Inside a Single Zone
- Time based Access Policies can be Assigned to a Zone

Blocked User



- Blocked Users are Restricted to Enter in Specified Zones
- User is Treated as a Deactivated User and, All Access
 Privileges are Withdrawn Temporarily
- System Blocks User for
 - ✓ User is Absent for More Than a Predefined Time Period
 - ✓ Consecutive Attempts to Access Unauthorized Zone
 - ✓ Access Attempts Exceeds the Maximum No. of

Attempts Allowed Within a Time Limit



Do Not Disturb (DND) Zone



- User Entry is Restricted in a DND Zone
- Zone Access Level is Changed to Highest
- VIP User Can Override the Rule
- Useful for Business Meeting, Seminar, Operation Theater etc.

Additional Security Code



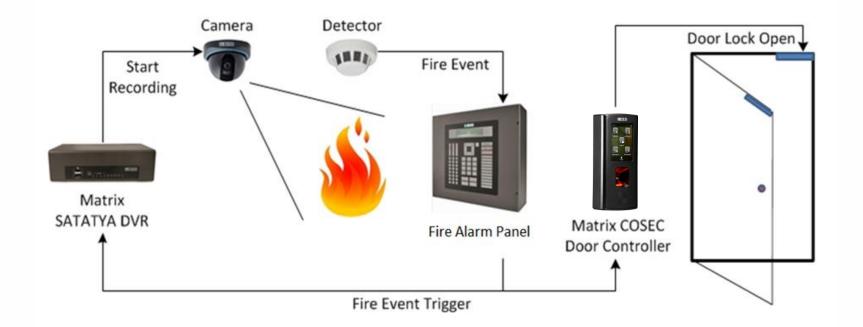
- Unique Number Encoded on Smart Card
- Common Code for Entire Organization
- System Identify User based on his Basic Identity (Additional Security Code) to Grant Permission
- Very Useful when System is in a Degraded Mode
- Prevents Duplication or Fraudulent Use of Card





Integration with Other Hardware







Trigger O/P Device on Specified Time



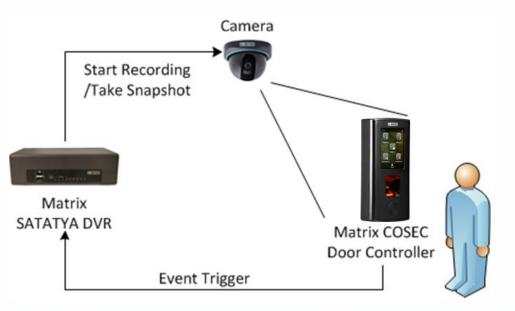
- Automatically Activate O/P Port based on Pre-defined Time
- Used for Many Time based Applications
- School Bell, Siren, Camera Recording, Door Unlock Can be

Activated without any Manual Involvement

Time Stamping



- Integration with Video Surveillance Solution
- Takes a Snapshot of Person Accessing a Door
- Generates Reports with Photograph
- Ensures Security and Accurate Attendance Marking



Reports in Various File Formats





MS-Excel MS-Excel Data

2	
PDF	

PDF



XML



Rich Text Format



RTP



MS-Word MS-Word Editable



Reports



- Access Zone
- Time Zone
- Access Group
- Functional Group
- 2-Person Group
- Input Port Group
- Output Port Group

- First-In User
- 2-Person Access
- Who Is In
- Guard Tour
- Emergency Evacuation
- Door Held Open
- Alarm Details

For Further information, Please Contact



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