

## Matrix Access Control Data Centre Solution

### Solution:

Access Control for Data Centres

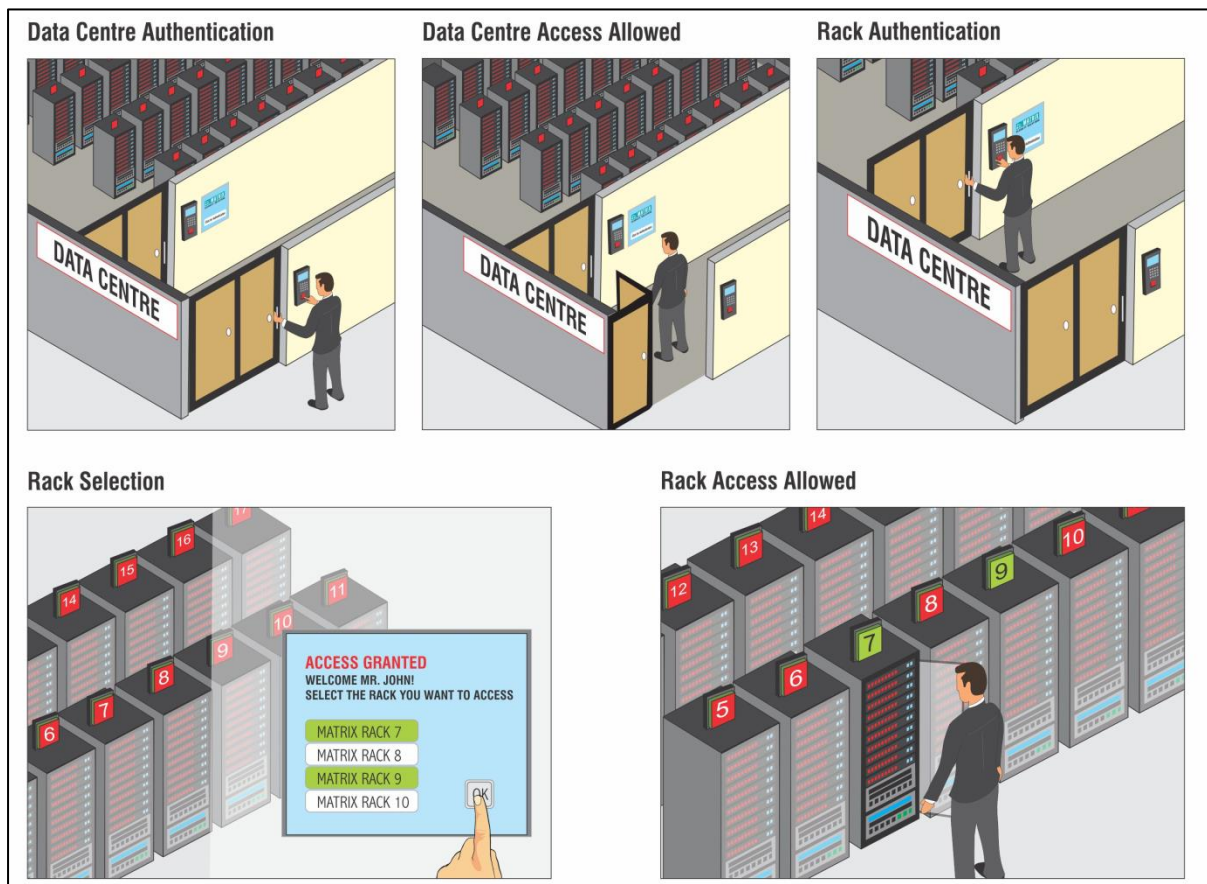
### About Solution:

Data Centres is a challenging domain, the success of which depends on security of client data. Most data centres store data of more than one organisation. It is very crucial for the data centre to prevent any unauthorised access of data. Matrix offers a solution whereby data racks get secured biometrically with records of every access along with its duration. Only authorised person can get access of specific rack for the stipulated time using biometric verification.

### How it works?

The solution is available in two forms. The process of it is listed below:

### Solution 1: Time Based Rack Access with Single Biometric Device



**Data Centre Authentication:** User shows biometric credentials to access the data centre

**Data Centre Access allowed:** Once, user is allowed with the Access, he will move towards rack access authentication

**Rack Authentication:** User will click on the screen and provide biometric credentials to the device placed along with the screen

**Rack Selection:** Once user provides biometric authentication to get the rack access, he will be able to select the racks from the rack accessible list that he wants to access

**Rack access allowed:** Finally, the user will perform his assigned task within duration time period

### **Solution Description:**

The features mentioned below enhance security of data centres:

- **Centralized Biometric Authentication:**

Biometrics provides high-end security over RFID and hence integrating biometrics with Access Control solution fetches complete security for Data Centres. Usually, an employee needs to punch twice in order to access the data rack of his/her organization.

- ✓ **First Punch:** A Biometric device will be installed at the entrance of the data centre. User will punch on the device and accordingly he will be granted/declined access. This authentication ensures that an authorised user is trying to access the data centre.
- ✓ **Second Punch:** Once user is granted access, he or she will punch again at the device installed near the screen in order to access the respective racks. Once user punches, the screen will display the list of racks that he or she is allowed to access. For Example – when 'x' employee of 'ABC Organization' makes his second punch, the screen will display the list of only ABC Organization racks that are allotted to him. The user then needs to select the racks that he wants to access from the screen and accordingly, he will be granted access.

- **Pre-defined Rack Access:**

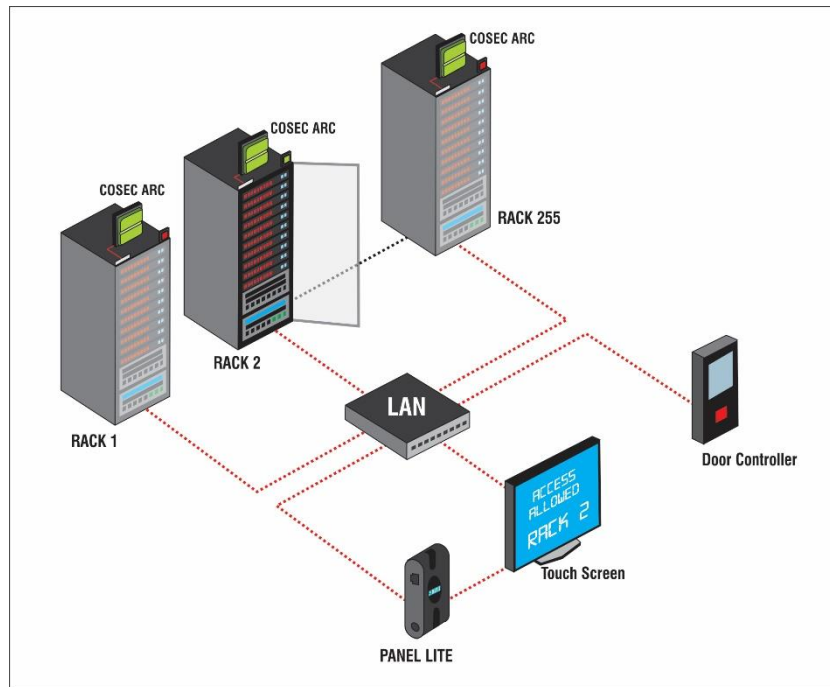
Every company has designated racks allotted to them. Admin can define the racks company wise, which means whenever a user makes his second punch – only racks allotted to his respective company will be listed on the display screen.

This feature acts as USP for data centres as they can ensure that a rack of company "x" will not be accessible to or misused by employee of company "y"

- **Rack accessible for a defined time period:**

Every rack that is allocated to a company can only be accessed for a definite period of time. Admin can set the duration and accordingly the rack will be accessible for the pre-defined time period.

**Connectivity Diagram:**



**Solution 2: User Based Rack Access with Multiple Biometric Device**

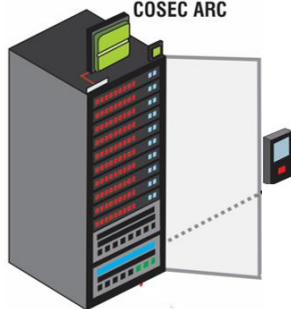
**Data Centre Authentication**



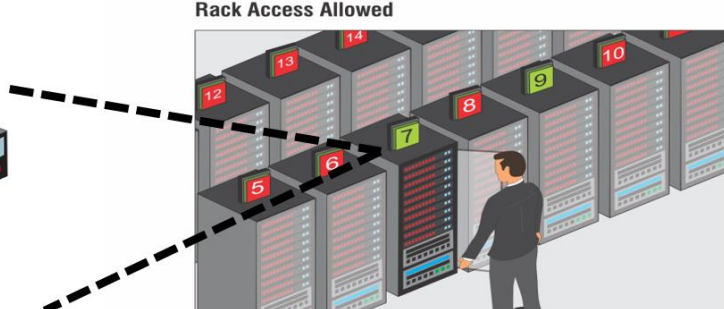
**Data Centre Access Allowed**



**COSEC ARC**



**Rack Access Allowed**



**Data Centre Authentication:** User shows biometric credentials to access the data centre

**Data Centre Access allowed:** Once, user is allowed with the Access, he will move towards rack access authentication

**Rack Authentication:** User will show biometric credentials to access the Rack.

### **Solution Description:**

The features mentioned below enhance security of data centres:

- **Centralized Biometric Authentication:**

Biometrics provides high-end security over RFID and hence integrating biometrics with Access Control solution fetches complete security for Data Centres. Usually, an employee needs to punch twice in order to access the data rack of his/her organization.

- ✓ **First Punch with 2 Level Authentication:** A Biometric device will be installed at the entrance of the data centre. User will show Card or Enter the PIN CODE then Biometric Credential on the device and accordingly he will be granted/declined access. This authentication ensures that an authorised user is trying to access the data centre. 2 Level authentication improves the Security Level.
- ✓ **Second Punch:** User will move to the Rack and shows the Biometric credential on the device installed at Rack. If the User is authenticated as a Valid then Rack will open. User can work in the Rack and once it is completed, it will close the Rack door.

- **Pre-defined Rack Access:**

Every company has designated racks allotted to them. Admin can define the racks company wise, which means whenever a user makes his second punch – only racks allotted to his respective company will be listed on the display screen.

This feature acts as USP for data centres as they can ensure that a rack of company “x” will not be accessible to or misused by employee of company “y”

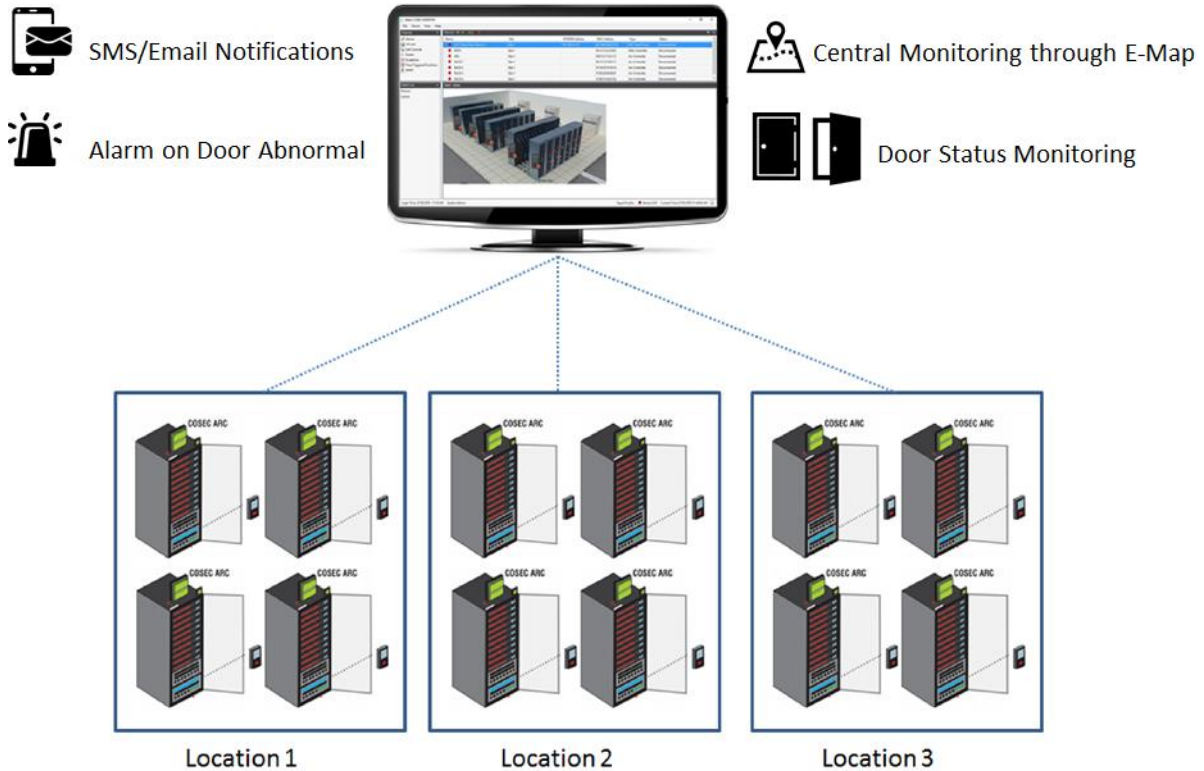
- **Integration with video Surveillance:**

Matrix Access Control solution for data centres can be integrated with the Video Surveillance solution. Hence, when a user tries to access the data centre through the biometric device, an image gets captured. In case of unauthorized access, having an image can prove helpful for data centres.

- **Rack accessible for a defined time period:**

Every rack that is allocated to a company can only be accessed for a definite period of time. Admin can set the duration and accordingly the rack will be accessible for the pre-defined time period.

### Connectivity Diagram:



### Application:

#### 'Data Rack' Management:

Data Centres have data of more than one organization stored in a single location. Managing the data racks is a cumbersome process for data centres. Through this solution, data centres can manage each and every company's rack virtually along with enhancing the security.

#### Reports:

The solution provides reports in the form of:

- 'Which' rack is accessed by 'whom', 'when' and the time-duration
- Records related to rack accessibility, time duration, etc.

- Rack Held open too long Alarm, Rack Access Denied Events etc.

#### **Benefits:**

##### **From Data Centre point of view:**

- Easy maintenance of diverse data
- Accurate record of access allowed/denied in the software
- No manual security required
- Easy data rack management of various companies in a single location

##### **From Companies securing data at data centres:**

- Complete security of company data
- Accurate records of who accessed data at what time

#### **Target User Profile:**

- Data Centres
- Server-based Companies

#### **Devices Required:**

- COSEC PANEL LITE V2
  - ✓ Used as Standalone Access Control Solution for Data Centres.
  - ✓ PANEL LITE screen will display all events that need to be authenticated while accessing the data centres.
- COSEC ARC
  - ✓ COSEC ARC gets mounted on the data rack.
- DOOR LOCK
  - ✓ Door lock is integrated with COSEC ARC on data rack.

- COSEC DOOR CONTROLLER
  - ✓ DOOR CONTROLLER will be required when user selects the rack that he wants to access and later need to authenticate himself with this device in order to access the rack
- COSEC SOFTWARE PLATFORM
  - ✓ COSEC Software required for Central Monitoring on EMAP. Sending SMS/EMAIL notifications to the Users.
  - ✓

#### Useful Links:

Blog on Data Centre Security: <http://www.matrixcomsec.com/blog/?p=222>

#### 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 footprints 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.

#### Contact Details:

Email	<a href="mailto:More@MatrixComSec.com">More@MatrixComSec.com</a>
Contact No	+91 265 2630555
Website	<a href="http://www.MatrixSecuSol.com">www.MatrixSecuSol.com</a>
Address	394-GIDC Makarpura, Vadodara-390010, Gujarat, India