Matrix Transforms Access Control and Attendance Management for a Leading Saudi-based Pharmaceutical Company

Case Study

Overview
- **Application:** Access Control, Time-Attendance, Integration with Video Surveillance
- **Industry:** Manufacturing
- **Credential:** Face, PIN, RFID Card, BLE
- **Location:** Saudi Arabia, Multi Location

Company Profile:

This prominent Saudi-based pharmaceutical company has been dedicated to the development of an advanced pharmaceutical manufacturing complex. Their initiative aims to combat chronic and life-threatening diseases, aligning with the company's vision of addressing unmet needs in the pharmaceutical sector within Saudi Arabia and the MENA region. This commitment positions the company at the forefront of advancing healthcare solutions and making a substantial impact on public health.

Overview:

The client faced a complex array of challenges, from outdated hardware in access control and Video Surveillance systems to the integration of advanced access control features and payroll data with SAP. Overcoming disruptions in work continuity, the challenges included preserving the functionality of the existing system, unifying monitoring for emergency response, and implementing mobile attendance within fixed areas. Matrix's comprehensive solution addressed these multifaceted hurdles, leveraging expertise to seamlessly integrate systems and provide tailored resolutions, ensuring optimal resource utilization and smooth workflow.

Challenges:

The challenges that the client faced were quite complex. Right from the outdated hardware to payroll integration, the client encountered difficulties in securing the necessary resources for effective solutions. This led to disruptions in work continuity and hindered optimal resource utilization. The challenges hindering the delivery of a comprehensive solution were:

- **Outdated Hardware Components:**
  The client grappled with the aging infrastructure as the access control and Camera hardware, installed a decade ago, faced obsolescence.

- **Advanced Access Control Implementation:**
  The client expressed a need for advanced access control features, presenting a challenge in integrating these capabilities with their existing access control system. Preservation of the current system's functionality was crucial.

- **Integration for Unified Monitoring:**
  A key challenge involved integrating the access control and surveillance systems for unified monitoring on a single screen. The client sought features such as Alerts and Video Pop-ups to enhance emergency response, monitor door access, and detect Access Rules Violations.

- **Employee Attendance Data Integration with SAP:**
  The client required seamless integration of employee attendance data with SAP for efficient payroll processing, presenting a challenge in ensuring compatibility and accuracy in data synchronization.

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- **Mobile Attendance within a Particular Location:**
  The client desired a solution allowing mobile attendance within the geo limits of their head office and plant locations, posing a unique challenge in providing flexibility without compromising security.

These multifaceted challenges formed the backdrop against which Matrix's expertise and innovative solutions were applied to deliver a comprehensive and tailored resolution.

Solution:

Embarking on a transformative journey, Matrix provided a seamless solution for all these clientele concerns. The integration of video surveillance, proactive security measures, and seamless payroll processing demonstrated Matrix's commitment to delivering not just a solution, but a tailored and future-ready security ecosystem for our client.

- **Integration of Existing Systems for Seamless Operation:**
  Matrix leveraged the client's existing access control system by integrating it with the Matrix COSEC application, employing the Matrix COSEC ARC DC200P. Simultaneously, Matrix connected the client's existing video surveillance solution with Matrix Server Grade Enterprise Network Video Recorders and Matrix IP Cameras. This strategic approach not only maximized the utility of the client's existing infrastructure but also resulted in significant cost savings, offering a seamlessly integrated solution.
- **Advanced Access Control Implementation for Enhanced Security:**
  Matrix addressed the client's need for advanced access control features by integrating the existing system with Matrix's access control solution. This integration extended security measures with features such as Man Trap, Time-Based Access, Zone-Based Access Policies, and Fire Alarm Integration. The result was a comprehensive security framework, providing centralized control over employees' movements within secure areas.

- **Unified Monitoring and Proactive Security Measures:**
  With the help of its R&D team, Matrix achieved a unified monitoring system with alerts and video pop-ups for emergency door access and Access Rules Violations. This seamless integration between access control and video surveillance created a responsive and proactive security infrastructure. The result was a single-screen monitoring experience, enhancing the client's ability to address security concerns in real-time.

- **Hassle-Free Payroll Processing with SAP Integration:**
  Matrix facilitated the integration of the client's active directory for user master data and seamlessly integrated processed attendance data with SAP. This integration streamlined the payroll process, ensuring accuracy and efficiency in salary calculations. The client experienced a hassle-free payroll integration, eliminating the risk of errors in the salary processing workflow.
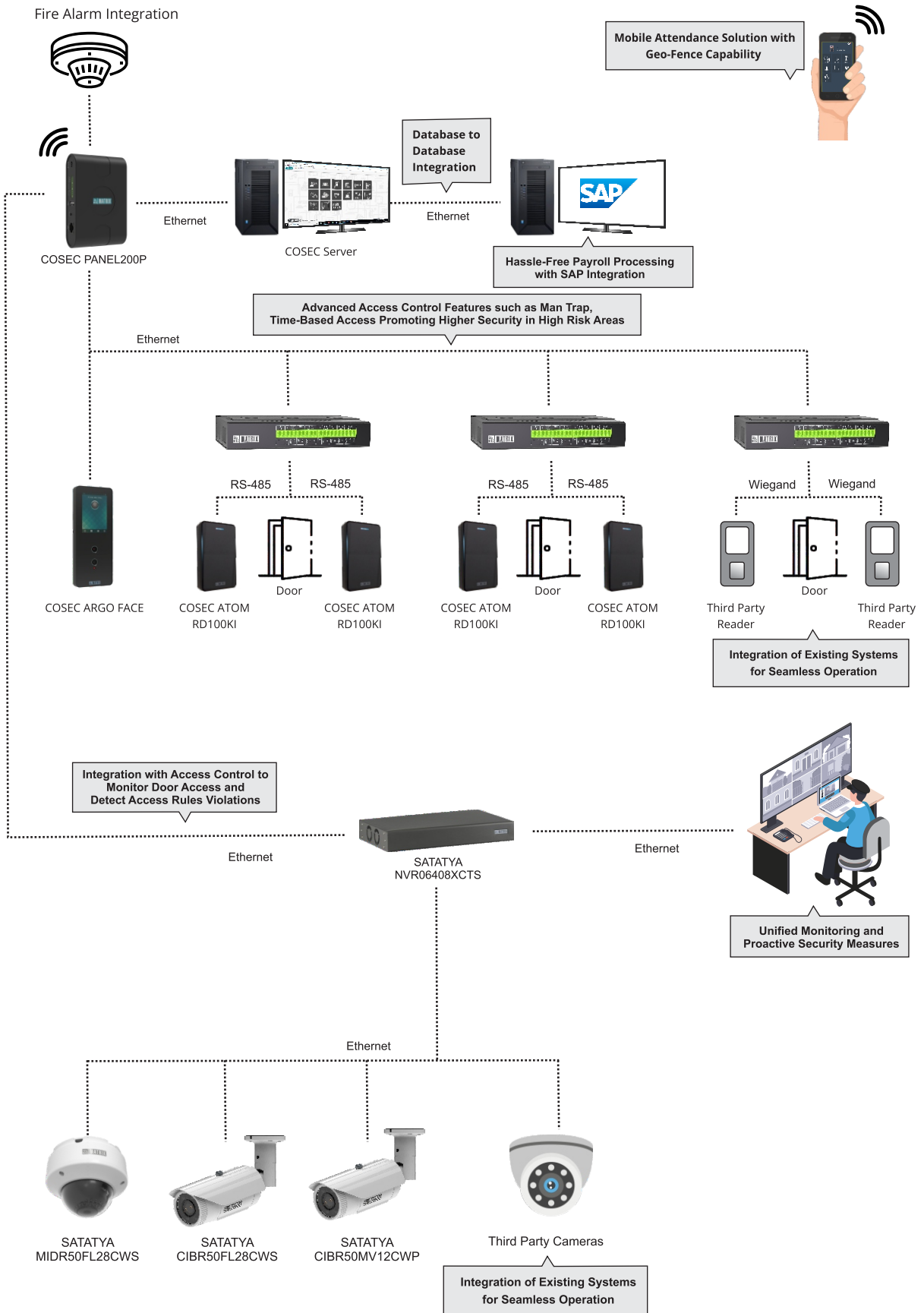- **Mobile Attendance Solution with Geo-Fence Capability:**
  Matrix addressed the client's need for mobile attendance with the COSEC APTA mobile application. This solution allowed the client to set a geo-fence around their head office and plant locations enabling employees to mark their attendance through their mobile phones within the designated limits. This innovative approach provided flexibility without compromising security, meeting the client's unique requirements.

This comprehensive security solution, combining innovation and seamless integration, not only resolved the client's challenges but also positioned them at the forefront of advanced security and access control technologies.

Application Scenario:

Fire Alarm Integration

Mobile Attendance Solution with Geo-Fence Capability

COSEC PANEL200P

Ethernet

COSEC Server

Database to Database Integration

Ethernet

SAP

Hassle-Free Payroll Processing with SAP Integration

Advanced Access Control Features such as Man Trap, Time-Based Access Promoting Higher Security in High Risk Areas

Ethernet

RS-485   RS-485   RS-485   RS-485   Wiegand   Wiegand

COSEC ARGO FACE

COSEC ATOM RD100KI   Door   COSEC ATOM RD100KI   COSEC ATOM RD100KI   Door   COSEC ATOM RD100KI   Third Party Reader   Door   Third Party Reader

Integration of Existing Systems for Seamless Operation

Integration with Access Control to Monitor Door Access and Detect Access Rules Violations

Ethernet   SATATYA NVR06408XCTS   Ethernet

Unified Monitoring and Proactive Security Measures

Ethernet

SATATYA MIDR50FL28CWS   SATATYA CIBR50FL28CWS   SATATYA CIBR50MV12CWP   Third Party Cameras

Integration of Existing Systems for Seamless Operation

Results

In the ever-evolving landscape of security and organizational management, the need for integrated solutions has become paramount. Our client's journey encapsulates the challenges posed by outdated hardware in their Access control and CCTV systems, prompting the intervention of Matrix's R&D team. As a result, a comprehensive solution emerged, seamlessly integrating CCTV and Access control functionalities.

Beyond enhancing security, this integrated system offers a streamlined monitoring experience, eliminating the need for disparate applications. Moreover, the incorporation of video pop-ups and email alerts ensures a proactive response to exceptions. Complementing these security features, the solution integrates their centralized Attendance system with SAP, optimizing not just security but also administrative processes. This holistic approach underscores Matrix's commitment to providing innovative and efficient solutions tailored to our client's evolving needs.

Products Offered

Products Offered	Description
COSEC PANEL200P	Access Control Hub
COSEC ARGO FACEI	Face-based Door Controller
COSEC ARC DC200P	Two-Door Access Controller
COSEC ATOM RD100KI	Reader with Keypad
SATATYA NVR06408XCTS	64 Channel Enterprise grade Network Video Recorder
SATATYA MIDR50FL28CWS	5 MP Professional Series Dome IP Camera
SATATYA CIBR50FL28CWS	5 MP Project Series Bullet IP Camera with Fixed Lens
SATATYA CIBR50MV12CWP	5 MP Project Series Bullet IP Camera with Motorised Lens
COSEC CENTRA ACM	Access Control User License
COSEC CENTRA TAM	Time-Attendance User License
COSEC CENTRA FR	Face Recognition User License
COSEC CENTRA ESS	Employee Self-Service User License
SATATYA SAMAS CAM20	Camera License

About Matrix

Established in 1991, Matrix is a leader in Security and Telecom solutions for modern businesses and enterprises. As a technology-driven, and customer-focused organization, the company is committed to keeping pace with the revolutions in the Security and Telecom industries.

With around 40% of its human resources dedicated to the development of new products, Matrix has launched cutting-edge products like Video Surveillance Systems – Video Management Systems, Network Video Recorders and IP Camera, Access Control and Time-Attendance Systems as well as Telecom Solutions such as Unified Communications, IP-PBX, Universal Gateways, VoIP and GSM Gateways and Communication Endpoints. These solutions are feature-rich, reliable, and conform to international standards.

Having global footprints in Asia, Europe, North America, South America, and Africa through an extensive network of more than 4000+ channel partners, Matrix ensures that the products serve the needs of its customers faster and longer.

Matrix has ISO 27001: 2013, 20000-1 2018, 14001- 2015, and 9001: 2015 certifications for quality management standards. Matrix has also been awarded ZED Quality Certification, and DSIR Certification for indigenous R&D and Manufacturing. Matrix has gained the trust and admiration of customers representing the entire spectrum of industries.

For further information, please contact:

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