Implementation of Integrated Access360 Platform

Vertical: Petrochemical
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PROJECTS HIGHLIGHTS

- Client name: BASF
- Industry: Chemical Manufacturing
- Users enrolled: 7529 Users
- Enterprise Location: Multi-location
- Technology Partners: HID
- No. of facilities covered: 19
- Controllers/Doors: 300
- Location: APAC

REQUIREMENTS

- Manage attendance of the employees and contractual workforce across their facilities worldwide.
- Generation of attendance information for Payroll automation.
- Access Control system for employee and visitors at various checkpoints.
- Real-time occupancy/headcount of staff as well as visitors.
- Secure Smart Card Encoding to prevent card cloning and unauthorized access.
- Visitor and contractor management
- Vehicle access management

BASF is a German chemical company and the biggest chemical producer in the world. The BASF Group comprises subsidiaries and joint ventures in more than 80 countries and operates six integrated production sites and 390 other production sites in Europe, Asia, Australia, the Americas, and Africa. Its headquarters is in Ludwigshafen, Germany. BASF has customers in over 190 countries and supplies products to a wide variety of industries.

PROBLEM STATEMENT

The major concerns being faced by BASF were:

- A single software solution that can manage individual requirements of R&D centers, Manufacturing plants, and corporate offices across all geographies of BASF
- Open-platform technologies for flexibility and best of breed hardware and software components
- Centralized Integrated Access and Identity management system
- The system should comply with Strong BASF IT security norms
- Facilities at a different geographical location have different language preferences so each user should be able to personalize the interface as per his/her language preference
- Integrated Visitor management system to get correct head count comprising both Visitors and employees
- Customizable platform for site-specific requirements of BASF
- The system must be designed to support scalability

SOLUTION

The solution delivered by IDCUBE was designed to integrate all BASF facilities across South East Asia on centralized access and identity management server (Access360). Figure 1 depicts the system architecture.

APPLICATIONS/PRODUCTS

- Software application
    - IDCUBE Access360 Server
    - IDCUBE HRView Web Server
    - IDCUBE ezVISIT client
    - IDCUBE Smart Issuance client
    - IDCUBE Smart Choice client
- Hardware
    - HID V1000 EVO
    - HID V2000 EVO
    - HID V100 EVO
    - HID EHRP40K
    - Biometric Readers
    - Desfire EV1 cards

- It comprises a central Access360 server at the BASF Singapore data center. The server integrates with three more servers that is E-mail server, AD server, and HRMS(SAP) respectively

- The physical access control devices along with various client modules such as Visitor Management, Smart Issuance, Cafeteria Management at different sites directly interface with the Access360 server.

- IDCUBE offered three different controller options from HID that is V2000, V1000 and EH400 along with R10(writable) readers for BASF's worldwide facilities.

- The Smart Issuance Client is used to encode DESFire EV1 cards with Customer specific keys and application areas for secure identification and to protect cloning

- HRView Web Interface allows different facility admins to have a site-specific interface as per their language preference for user enrollment, vehicle enrolment, access-control rule management, biometric registration, card issuance, attendance reports, muster point reports, and access control reports

- HRView's attendance module offers advanced shift management functionalities to generate accurate attendance information for the manufacturing workforce operating in multiple shifts including the night shifts

- HRView web-interface also offers dashboards & widgets for site-specific headcount information, security insights in the form of anomalies and historical trends

- The User enrolment offers contractor management features that allow admins to segregate workforce and map them to suppliers. The interface provides fields to upload identity documents; custom fields to capture additional contractor information as per the compliance needs

- Bio-metric devices were installed to capture attendance at Manufacturing facilities, especially for the contractual workforce

- Training modules were customized to capture safety training information of the contractual workforce.

- Integrated Visitor management system allows each employee to plan meetings, meeting room allocation and visitor pre-registration via web-portal. The ezVISIT client is used for capturing visitor photographs and additional information and generate visitor passes

- Some of the sites deployed Smart Choice clients for meal management at corporate cafeterias

RESULT

To summarize, the overall benefits realized by our client by implementing IDCUBE'S Access360 platform are as follows:

- Customizable Platform: IDCUBE had been flexible enough to adapt the application to meet local requirements in a way that the newly built features are useful for BASF's other global facilities.

- Risk mitigation and Information security: Centralized systems in contrast to siloed systems ensure more effective implementation of IT security norms for information and privacy protection.

- Accurate records: The Access360 system enabled real-time records to be transmitted to a centrally managed server, avoiding any malpractice such as falsification of records.

- Reduced Cost: Adoption of an open-platform centralized solution resulted in an immediate reduction in implementation, maintenance, and management cost due to interoperability of software features and functionalities as well as flexibility in procurement and selection of hardware devices.

- Effective Compliance: Integrated automated system ensures audit readiness and compliances as per international EHS and OHS norms, federal laws, regulations, and standards.

- Investment Protection: Well thought through and future-focused implementation ensures a higher return on investment in contrast to regional systems running in silos.
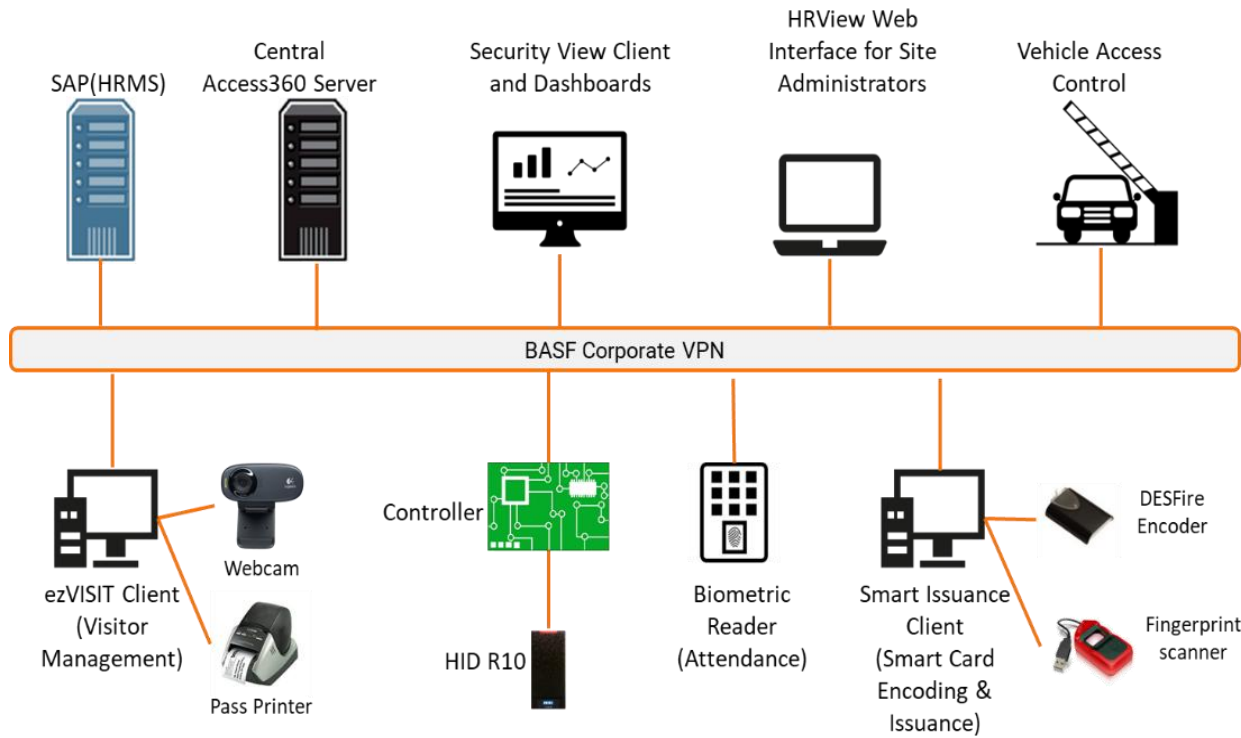
SYSTEM ARCHITECTURE

Figure- 1