



BASF Unifies Global **Access & Identity Management with IDCUBE**

BASF is a German chemical company and one of the world's leading chemical companies. Headquartered in Ludwigshafen, Germany, BASF operates 234 production sites across 93 countries, including seven Verbund sites. The company supplies products and services to around 75,000 customers in almost every country worldwide. Its portfolio serves a wide range of downstream industries, supported by a global production network and a predominantly business-to-business model.

The Challenges

The major concerns faced by BASF were:

- A single software solution capable of managing the individual requirements of R&D centres, manufacturing plants, and corporate offices across BASF's global operations.
- Open-platform technologies that provide flexibility in selecting best-of-breed hardware and software components.
- A centralised, integrated access and identity management system.
- Compliance with BASF's stringent IT security requirements.
- A multilingual interface that allows users across different geographical locations to work in their preferred language.
- An integrated visitor management system that provides an accurate headcount of both visitors and employees.
- A customisable platform capable of accommodating site-specific BASF requirements.
- A scalable system architecture capable of supporting future expansion.

The Requirements

- Manage attendance for employees and contract workforce across BASF facilities.
- Generate accurate attendance information for payroll automation.
- Provide access control for employees and visitors at multiple checkpoints.
- Maintain real-time occupancy and headcount information for staff and visitors.
- Enable secure smart-card encoding to help prevent card cloning and unauthorised access.
- Support visitor and contractor management.
- Support vehicle access management.

The Solution

IDCUBE's solution connects 35 BASF manufacturing and R&D sites across Southeast Asia through Access360.AI, centrally managed from the BASF Singapore Data Centre. The deployment supports 46,000+ users and 60,000+ access events per site per day, with no local servers or middleware deployed at individual sites.

- The central Access360.AI environment in Singapore integrates with BASF's e-mail server, Active Directory (AD), and HRMS (SAP).
- The unified platform brings together Access Master for access control management, ezvisit10 for visitor management, attendio5 for attendance tracking, AInsights for AI-based threat and vulnerability analysis, and Smart Issuance for secure credential printing and encoding.
- The deployment uses a mix of Mercury, VertX, and IDEMIA devices, supporting BASF's open-platform requirement and enabling different site environments to connect to the central platform.
- Smart Issuance supports secure printing and encoding of DESFire EV2 credentials, helping strengthen credential security and protection against cloning.
- The Access360.AI web interface enables facility administrators to use site-specific interfaces in their preferred language for user and vehicle enrolment, access-rule management, biometric registration, credential issuance, attendance reporting, muster-point reporting, and access-control reporting.
- attendio5 supports shift-based attendance workflows for manufacturing teams, including contract workers and multi-shift operations such as night shifts.
- User enrolment includes contractor-management functions that allow administrators to distinguish contractor populations, map contractors to suppliers, upload identity documents, and capture additional information through configurable fields.

- Biometric devices support attendance capture at manufacturing facilities, particularly for contract workers, while customised training workflows capture safety-training information.
- The integrated visitor management workflow allows employees to plan meetings, allocate meeting rooms, pre-register visitors, capture visitor information and photographs, and issue visitor passes through ezvisit10.
- Alnsights provides security intelligence through five Sentinel Indicators, analysis of 100,000+ alarms with root-cause detection, nine interactive dashboards with 184 dimensions, site-wise vulnerability scoring and benchmarking, weekly security reporting, and instant threat detection.
- The project documentation also references end-to-end encryption, GDPR, SOC 2, and VAPT as part of the deployment's security and assurance framework.

The Result

The implementation delivered the following benefits to BASF:

Customizable Platform: IDCUBE adapted the platform to meet site-specific requirements while maintaining a common centralised framework. Capabilities developed to address local requirements can also be extended across BASF's other facilities.

Risk mitigation and Information security: Centralised management supports more consistent implementation of BASF's IT security requirements for information and privacy protection. End-to-end encryption and Alnsights-based security intelligence, including site-wise vulnerability analysis and instant threat detection, provide greater visibility into security risks and support proactive risk mitigation.

Accurate records: Real-time records from distributed facilities are transmitted to the centrally managed platform, helping BASF maintain consistent and reliable information while reducing the risk of record falsification.

Reduced Cost: The open-platform, centralised architecture helps reduce implementation, maintenance, and management costs by supporting interoperability and greater flexibility in hardware procurement and selection. With no local servers or middleware deployed at individual sites, the solution also reduces infrastructure requirements and administrative overhead.

Effective Compliance: The integrated access, attendance, visitor, and contractor management environment supports audit readiness and more consistent adherence to applicable EHS, OHS, IT security, privacy, and regulatory requirements. Real-time AI dashboards support faster security decisions and strengthen proactive risk mitigation and compliance readiness.

Investment Protection: The scalable, open-platform architecture enables BASF to extend a common access and identity management framework across facilities rather than relying on multiple regional systems operating in silos. This provides greater flexibility to accommodate future technology and capacity requirements while protecting long-term investment.

Scan to explore more



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