



Case study

SVKM unifies access control and attendance across multi-location campuses with IDCUBE

SVKM Public Charitable Trust operates more than 20 educational institutions across eight major cities in India, including Mumbai, Bangalore, Chandigarh, Hyderabad and Ahmedabad. The organisation manages a large population of students, staff and faculty across its institutions, with attendance requirements covering more than 35,000 students. Its distributed educational environment required a common approach to attendance, identity management and physical access across multiple campuses.

The Challenges

The major concerns faced by SVKM were:

- Limited visibility into individuals entering different campuses and the real-time occupancy of students and staff.
- Managing attendance for more than 35,000 students across multiple institutions created significant administrative complexity.
- Manual attendance data collection resulted in proxy attendance, data anomalies and processing errors.
- Manual payroll processes, inefficient resource planning and high operating costs affected operational efficiency.
- Dependence on manual processes slowed access to accurate information and delayed decision-making.
- Student security and compliance with university regulations remained important operational concerns.
- Different campuses were using biometric devices from multiple manufacturers, with these systems operating independently in silos.
- The lack of a common platform made it difficult to centrally manage attendance, identities and biometric systems across SVKM's institutions.

The Requirements

- Manage attendance data for more than 35,000 students.
- Implement current access control technology.
- Maintain real-time occupancy information for students and staff.
- Integrate the access and attendance environment with SAP.
- Support compliance with university regulations.

The Solution

IDCUBE implemented **Access360 as an integrated access control and attendance management platform** across SVKM's educational environment. The deployment included **Attendance Management and Smart Issuance** modules and was designed around an open-platform architecture.

The solution used a distributed architecture consisting of a central server and local servers at individual sites. The central server hosted Access360 and managed user profiles and privileges, while local servers recorded site-specific logs and provided the communication interface for biometric devices. Site-level information was replicated to the central server for centralised management and reporting.

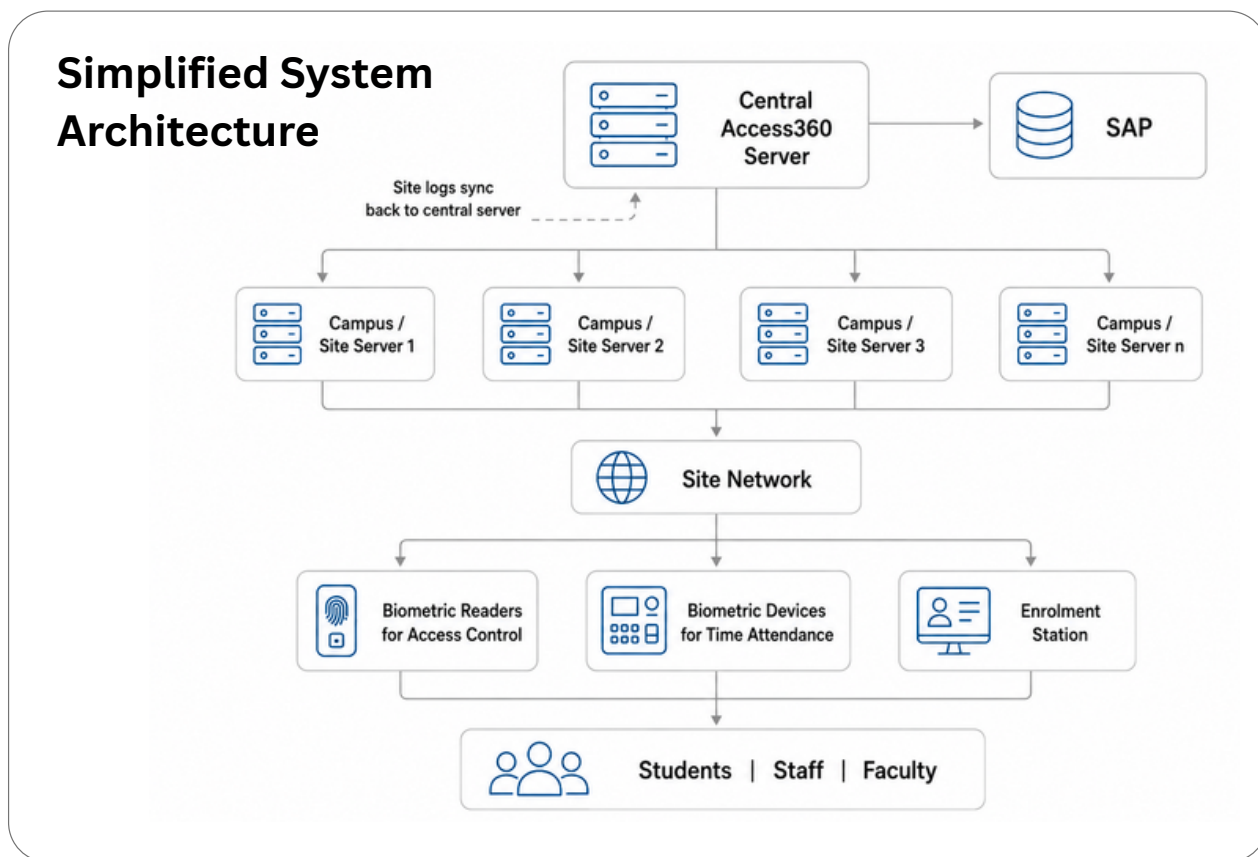
Smart Issuance was deployed at individual sites to support biometric fingerprint enrolment, smart-card issuance and card printing. The central server integrated with SAP to retrieve updated profile information for students, staff and faculty and to support payroll processing.

SVKM was already using biometric devices from Virdi, Suprema and Invixium across different institutions. **Access360 integrated these different biometric brands within a common platform**, allowing existing technologies to operate within the broader access and attendance environment rather than as separate systems.

The platform also enabled SVKM to define and administer multiple institutions within Access360. Access to information and reports could be controlled according to user privileges. Personnel identities for students, staff and faculty could be mapped according to their respective roles. For example, faculty members could generate attendance reports for students assigned to them, while HR managers could access attendance reports for staff and faculty.

The Result

- **Unified Access and Attendance Management:** Centralised access control and attendance management across multiple institutions with role-based administration and reporting.
- **Improved Attendance Integrity:** Biometric authentication helped reduce proxy attendance and improve the reliability of attendance records.
- **Simplified Payroll Processing:** SAP integration supported easier payroll processing for staff and faculty.
- **Reduced Manual Errors:** Automated processes reduced manual data handling, lowering errors and contributing to operational cost benefits.
- **Improved System Availability:** Distributed architecture supported continued system availability during network failures.
- **Open-Platform Flexibility:** Integration of biometric devices from multiple manufacturers reduced vendor dependency and provided flexibility in hardware selection.



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