



14+ Building Systems, One Operational Experience

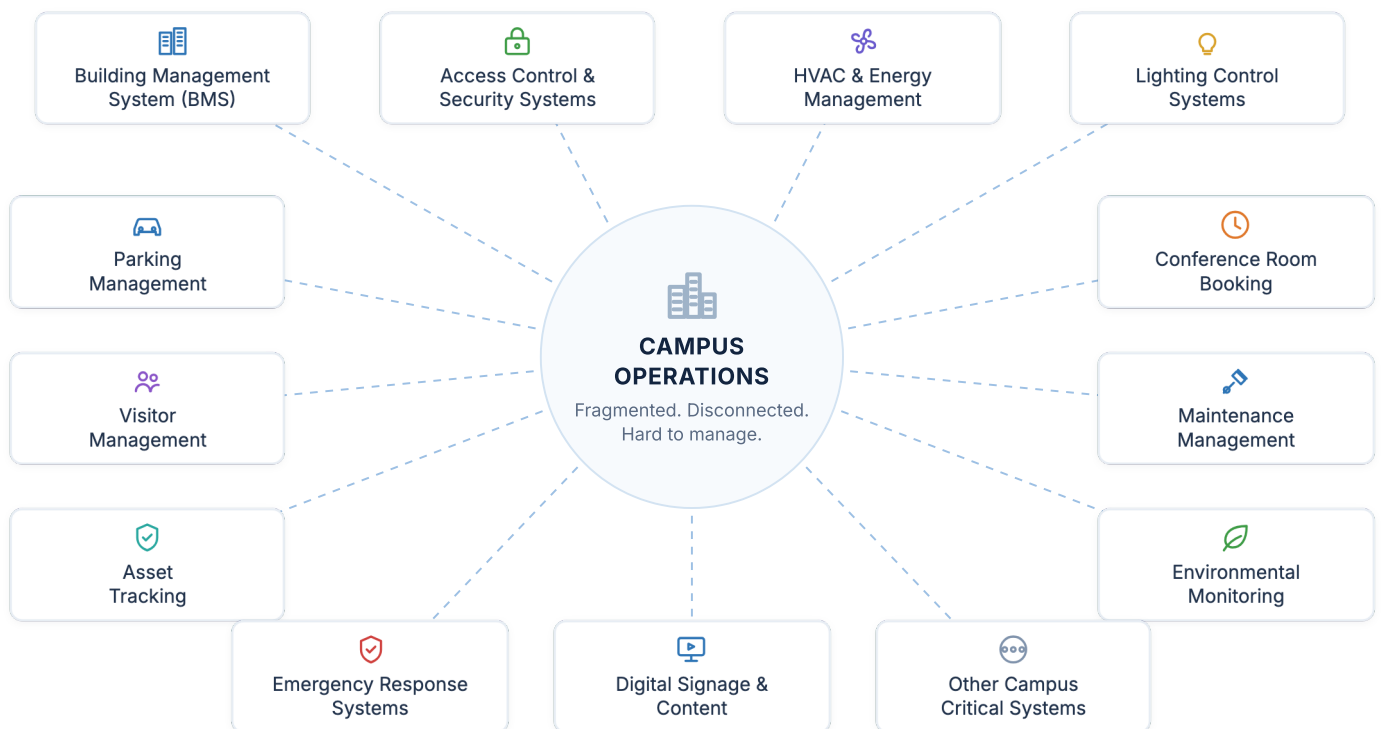
This case study presents the business transformation of a leading commercial infrastructure and building management solutions provider, achieved through collaboration with IoT83. By leveraging IoT83's cloud-agnostic OEM Enterprise Domain (OEDC) Platform, Flex83, the company unified building management, access control, security, visitor services, parking, environmental systems, and other campus infrastructure into a single operational environment.

CLIENT Global Technology & Industrial Enterprise	INDUSTRY Technology / Smart Infrastructure	REGION Middle East
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01 / The Challenge

Fourteen systems, none of them talking to each other

The enterprise operated 14+ independent systems across the campus. Each system worked in isolation, creating operational silos, manual effort and zero visibility across critical building and campus operations.



THE IMPACT

Fragmented visibility No single view across buildings, assets or operations.	Disconnected workflows Events in one system required action in another.	Operational complexity Multiple interfaces, data models and processes.	High operational overhead Manual coordination across teams increased costs.	Limited data insights No ability to correlate data for strategic decisions.

The enterprise needed a **unified platform** to connect, monitor and control every system, and to deliver a seamless experience for both operators and users.

02 / The Solution

A single interface over every building system

IoT83 designed and implemented an Integrated Access Platform (IAP) that unifies building systems and campus services in a single, intelligent interface.

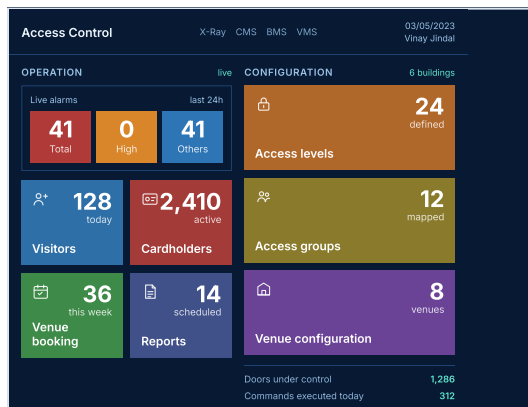
Unified pane of glass

- Centralized dashboard with real-time visibility across 14+ integrated systems
- Deep integration with Siemens Building Management System (BMS)
- Live status monitoring, alarms and analytics
- Cross-system orchestration and automated workflows

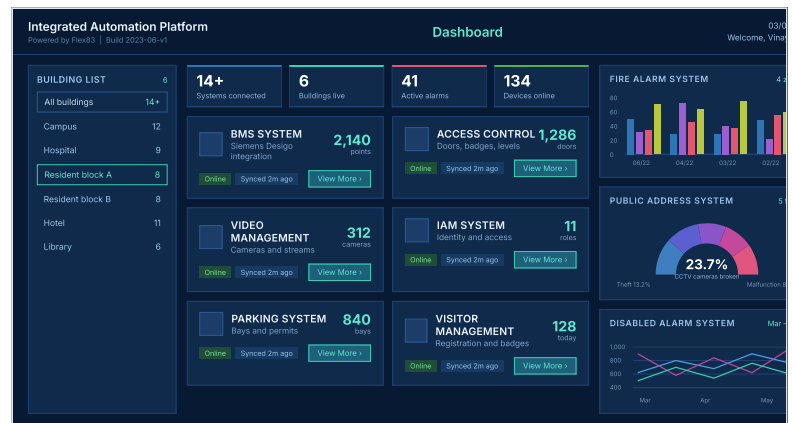
Campus services portal

- Employee self-service for requests, bookings and workplace services
- Digital visitor registration, badge management and access control
- Unified ticketing for maintenance, facilities and IT support
- Responsive and mobile-friendly experience

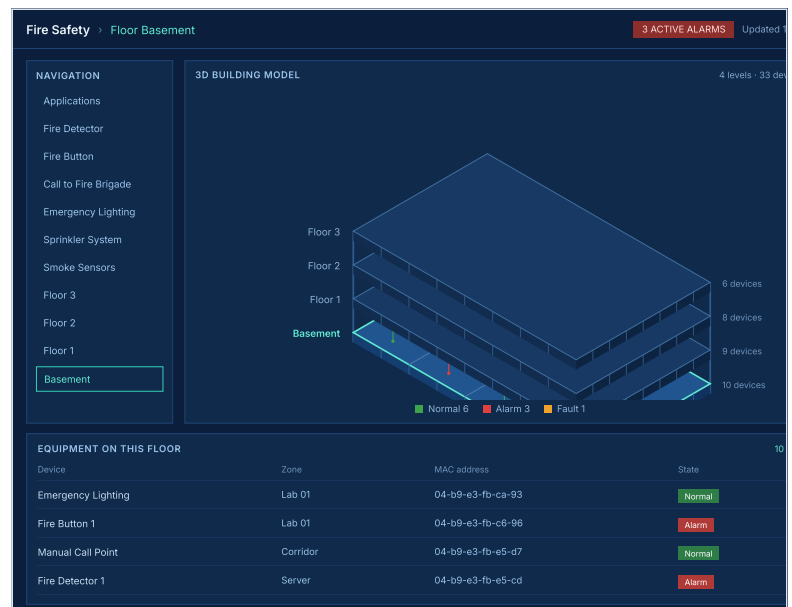
COMMAND AND CONTROL



WHAT OPERATORS SEE



3D VIEW OF FLOOR AND EQUIPMENT

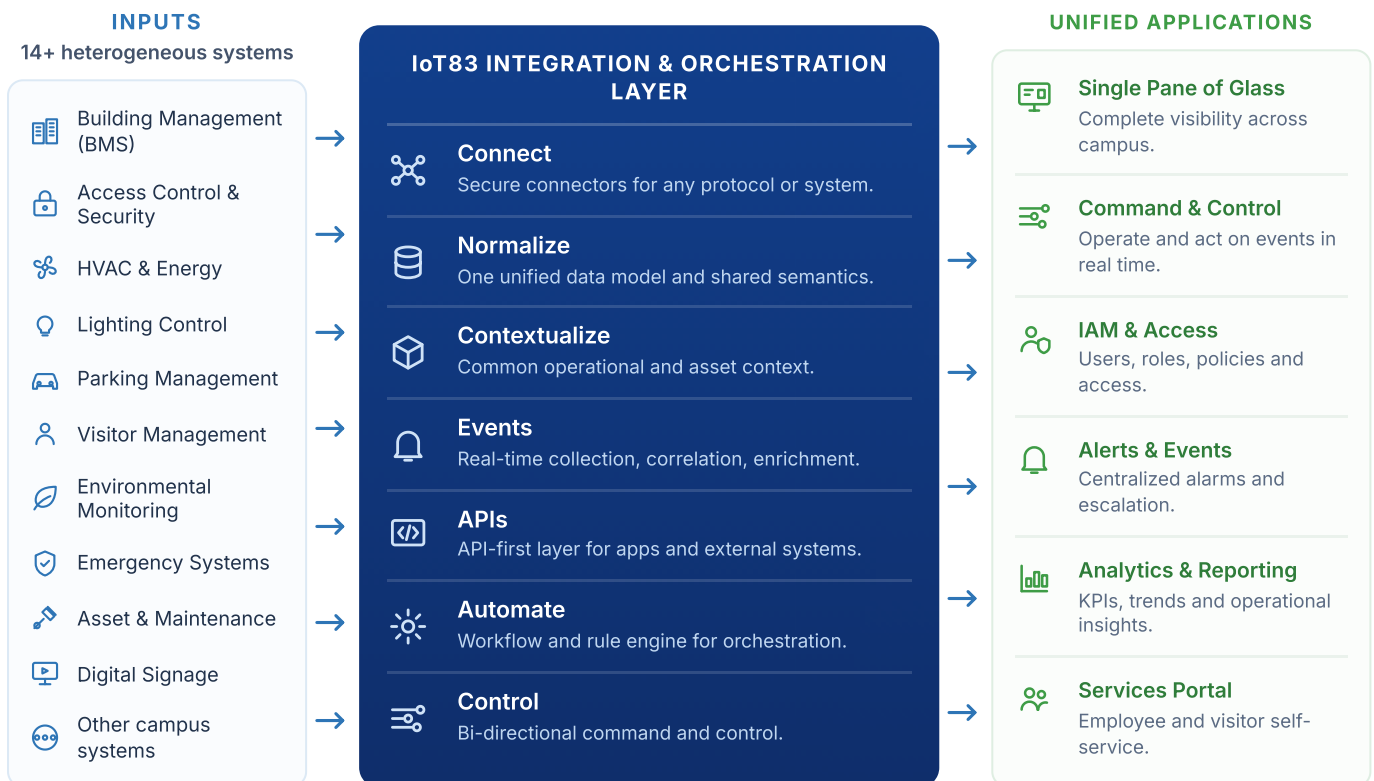


03 / The Approach

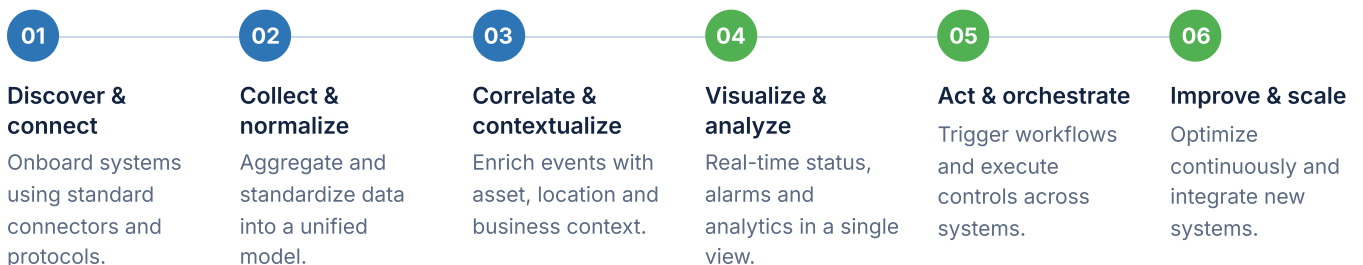
How the systems were brought together

IoT83 built an integration and orchestration layer that connects every system, normalizes data, correlates events and enables real-time control.

SOLUTION ARCHITECTURE



HOW THE PLATFORM WORKS

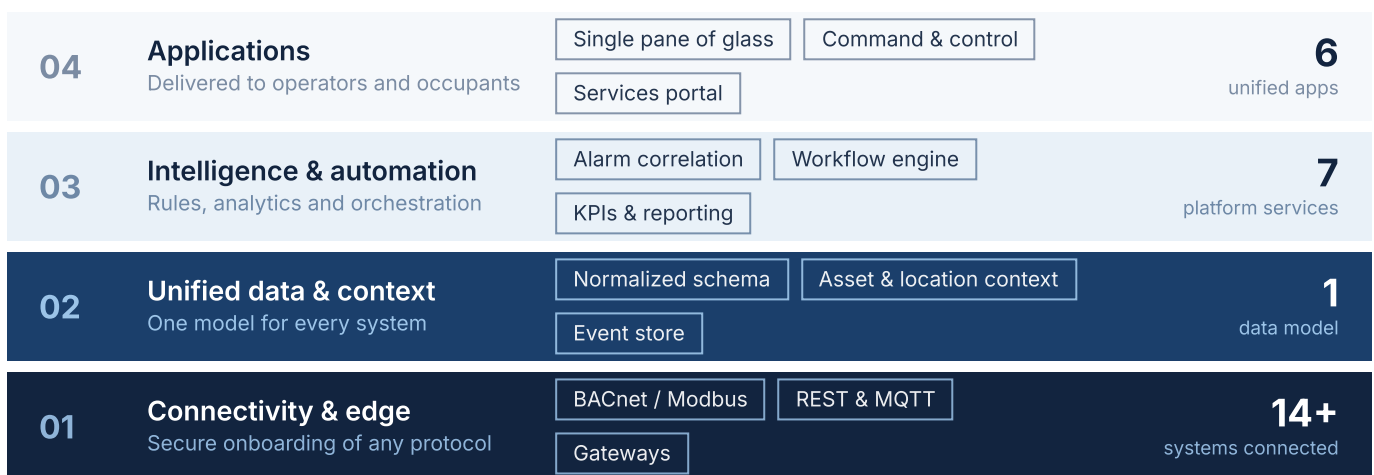


04 / The Platform

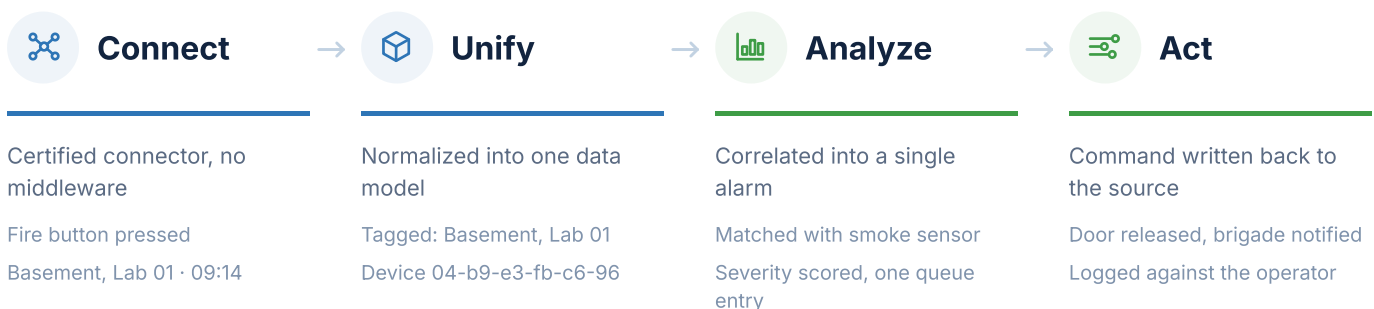
Built on Flex83 rather than from scratch

IAP is not a bespoke build. It is an application assembled on Flex83, the IoT83 AIoT platform that supplies connectivity, a unified data model, event processing and application services out of the box. That is why 14+ heterogeneous systems reached one operational view in a single programme rather than a multi-year integration effort.

THE FLEX83 STACK, AS DEPLOYED FOR THIS CAMPUS



HOW A SIGNAL BECOMES AN ACTION



WHY THE PLATFORM CHOICE MATTERED

Cloud agnostic

Flex83 runs on public cloud, private cloud or on premise, so the enterprise hosted it under its own data policy.

- ✓ Deployed on the enterprise's private cloud

Secure & compliant

Role-based access, encrypted transport and audit trails mean every override traces back to a named operator.

- ✓ 11 roles, 7 groups, every action logged

API-first

Every platform capability is a documented API, which is how the source systems were integrated without modifying them.

- ✓ 14+ systems integrated via API

Future ready

New buildings, protocols and services are added as configuration rather than a re-platforming project.

- ✓ Floors 1-3 and basement added post go-live

05 / In Operation

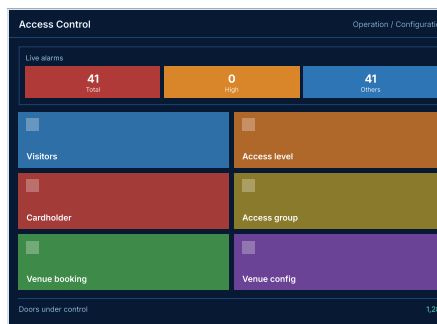
What operators do on a normal day

The IAP platform empowers operators to monitor, respond and act in real time across security, access, alarms, devices, content and users, eliminating context switching and accelerating response.

OPERATIONAL CONTROL ACROSS THE CAMPUS

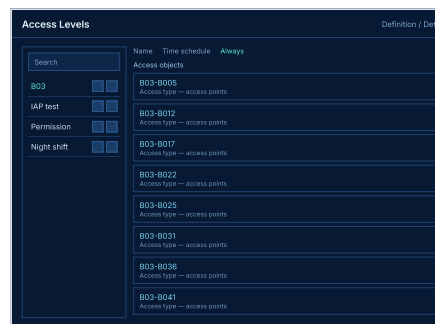
Access control & identity

Cardholders, visitors, access levels and venue configuration in one interface.



Command & control

Execute real-time commands and override system actions when needed.



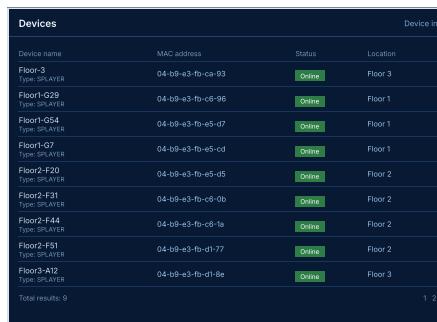
Events & alarms

Detect, prioritize and manage alarms with acknowledgment and escalation.



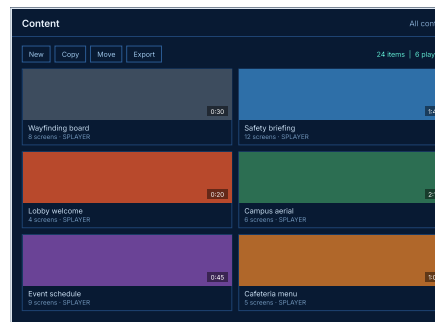
Device & system health

Monitor devices, configurations and status across all integrated systems.



Content & digital experience

Publish, manage and schedule content across signage and channels.



Users, groups & permissions

Centralized IAM with roles, groups, permissions and schedule-based access.



One platform. End-to-end operations.

From monitoring to control, identity to content, everything operators need to run a safe and efficient campus.

SECURE
OPERATIONS

REAL-TIME
CONTROL

BETTER
DECISIONS

06 / Scope of Work

Everything that went live

SYSTEMS INTEGRATED

14+

 Building Management BMS	 Access Control & security	 HVAC & Energy management	 Lighting Control systems	 Parking management	 Conference Rooms booking	 Visitor management
 Asset tracking	 Maintenance management	 Emergency response	 Environmental monitoring	 Digital Signage & content	 Video management	 And more campus-critical

DELIVERED CAPABILITIES

 Single pane of glass Complete campus visibility in one view.	 Real-time monitoring Alerts and analytics as events happen.
 Role-based views Operators, security and administrators.	 Centralized identity One directory for access management.
 Operational control Manual override and cross-system commands.	 Self-service portal Employees and visitors serve themselves.
 Audit and reporting Trails, reports and system statistics.	

TECHNICAL EXCELLENCE DELIVERED

 Enterprise-grade architecture Robust, secure and scalable by design.	 API-first integration Standardized APIs for rapid connectivity.	 Event-driven platform Real-time aggregation and distribution.
 Security & compliance RBAC, encryption and policy enforcement.	 High availability Resilient deployment, continuous operation.	 Modular & extensible Add systems without disruption.

07 / The Results

Where the campus stands now

IAP unifies operations, drives efficiency and creates lasting value for the entire organization.

BEFORE — 14+ SILOED SYSTEMS

AFTER — ONE OPERATIONAL LAYER

 Fragmented visibility No single view across buildings, assets or operations.	→	 One operational view Every building, asset and system on one screen.
 Disconnected workflows Events in one system required action in another.	→	 Automated orchestration One event triggers action across every system.
 Slow, manual response Operators switched interfaces to diagnose and act.	→	 Real-time control Detect, decide and command without leaving the view.
 High coordination cost Manual effort across security, facilities and IT.	→	 Role-based operations Each team works from its own view of one truth.
 No correlated data Nothing could be compared across systems.	→	 Decision-ready data One model behind KPIs, reports and audit trails.

14+

Systems integrated into one platform

6

Buildings under one operational view

1

Data model behind every system

24/7

Monitoring, control and audit coverage

WHY IAP

**Integrate**

Connect 14+ siloed systems into one platform.

**Unify**

A single pane of glass for visibility and control.

**Orchestrate**

Real-time events, automation and policy-driven actions.

**Secure**

Enterprise-grade security, compliance and auditability.

**Scale**

Built for enterprise scale, flexible and future-ready.

Ready to transform your campus?

Let's build a unified, intelligent and secure operational foundation together.

[Talk to an Expert](#)