



Smart Building & Smart Campus Solutions

Fully integrated smart building & smart campus solutions that used to be COST PROHIBITIVE & TECHNICALLY INFEASIBLE are now FULLY ACHIEVABLE with IoT83's Smart Building & Campus Solutions. The IoT83 Application Enablement Platform's (AEP's) layered approach to solution creation streamlines integration of existing BMS systems, new cost-effective IoT systems, and even with external municipal services for transformational value creation for building owners, occupants, and city planners.

A full visibility, optimization & service engine with **ONE PANE OF GLASS**

Enhanced Occupant Safety,
Health & Security



Building Operations

1

Full Building Management
System (BMS) Integration



Occupant Health & Safety

2

Campus Management
& Municipal Services



Connect building & Campus
to Municipal Services

3

New Building Services



Provide Enhanced Services
to Campus & Building Users

4

Owners: Lower
Operational Costs
& Higher Property Value

Cities: Lower Cost
& More Efficient
Service Delivery

Users: Safety
Comfort, Flexibility
& Convenience

From the World Economic Forum: 8 Business Drivers for Smart Buildings

1

PROFIT

- Increased Efficiency and Cost Reductions: New operational efficiencies preserve and improve margins.
- Revenue Risk Reduction: Visibility & control enables risk mitigation strategies for all financial exposures.

2

VALUE

- Brand Recognition & User Loyalty: Greater demand & business generation with higher customer loyalty.
- Data Aggregation: High-quality, reliable data to supports business goals, new services & smart decisions.

3

USERS

- Health and Wellbeing: improve the overall physical, mental and social wellbeing of building occupants.
- Occupant Satisfaction: improve tenant experience, and enhance safety, comfort, and convenience.

4

GREEN

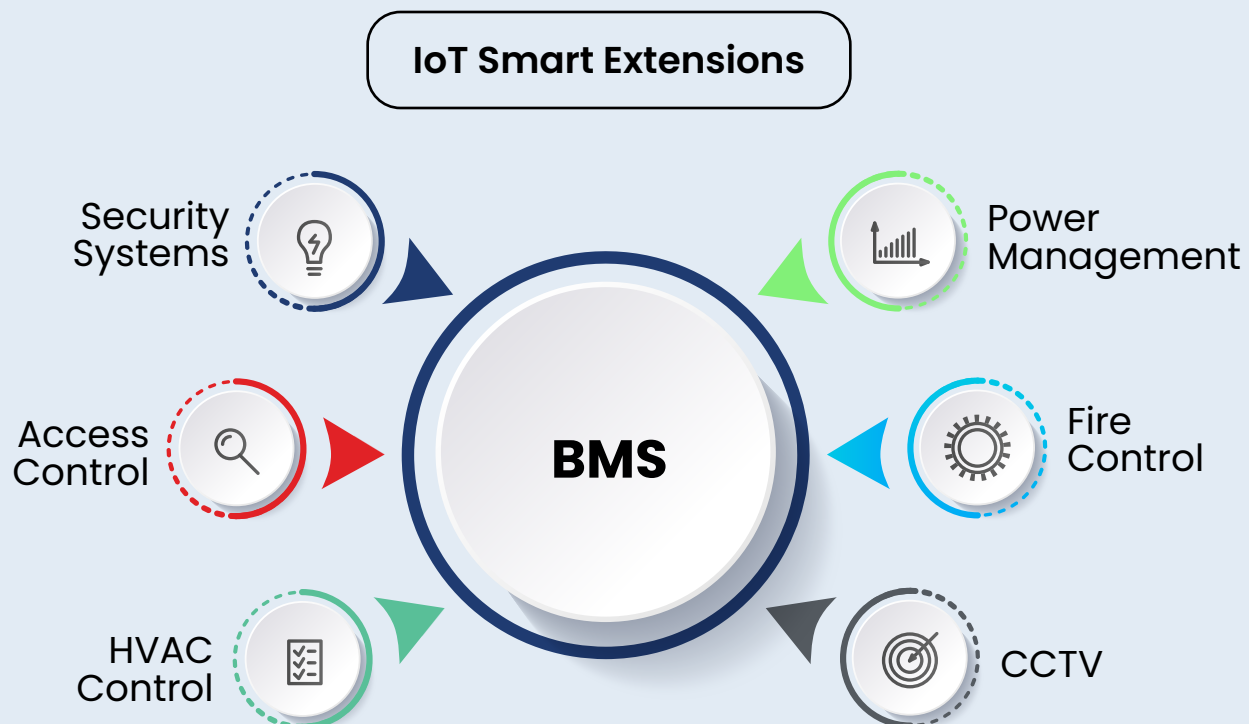
- Regulatory Compliance Achievement: solutions to meet multiple meet environmental targets.
- Better Space Utilization: Optimize space utilization & create space for collaboration and innovation.

Smart Building & Smart Campus Solution Brief

.. with IoT capabilities we are going far beyond **BMS**

A BMS enables the automatic control and optimizations of core facility systems.

But with IoT83's Application Enablement Platform (AEP), new smart building and campus optimization takes place on a much faster rate. IoT sensors and sub, systems can be innovatively implemented for new value creating use-cases. Monitor at granular level's - Collect data from multiple sources - And control virtually anything to enhance the building and campus operations and enhanced services.



Smart Parking
Occupant Sensing
Preventative Maint.

User Services
Water Leakage
Smart Signage

User Services
Office Bookings
Air Quality MGT

Enhanced Security
On-Demand Maint.
Municipal Svc.

IoT83's Application Enablement Platform (AEP) is the Framework for Extended Smart Building Integrations

IoT83 unfolds the complexity of rich Smart Building & Campus solutions with a layered architecture approach. Connectors interwork with edge sensors, devices, and legacy applications. Service interfaces provide users with access to all resources. And the back-end multi-function service logic brings the edge-devices, data transformations, analytics, and multi-faceted smart-system intelligence together as a reliable, expansive, and flexible system

IoT Devices

Existing Systems

01 IoT83 Smart Connector Library

IoT83 Front-End User Services

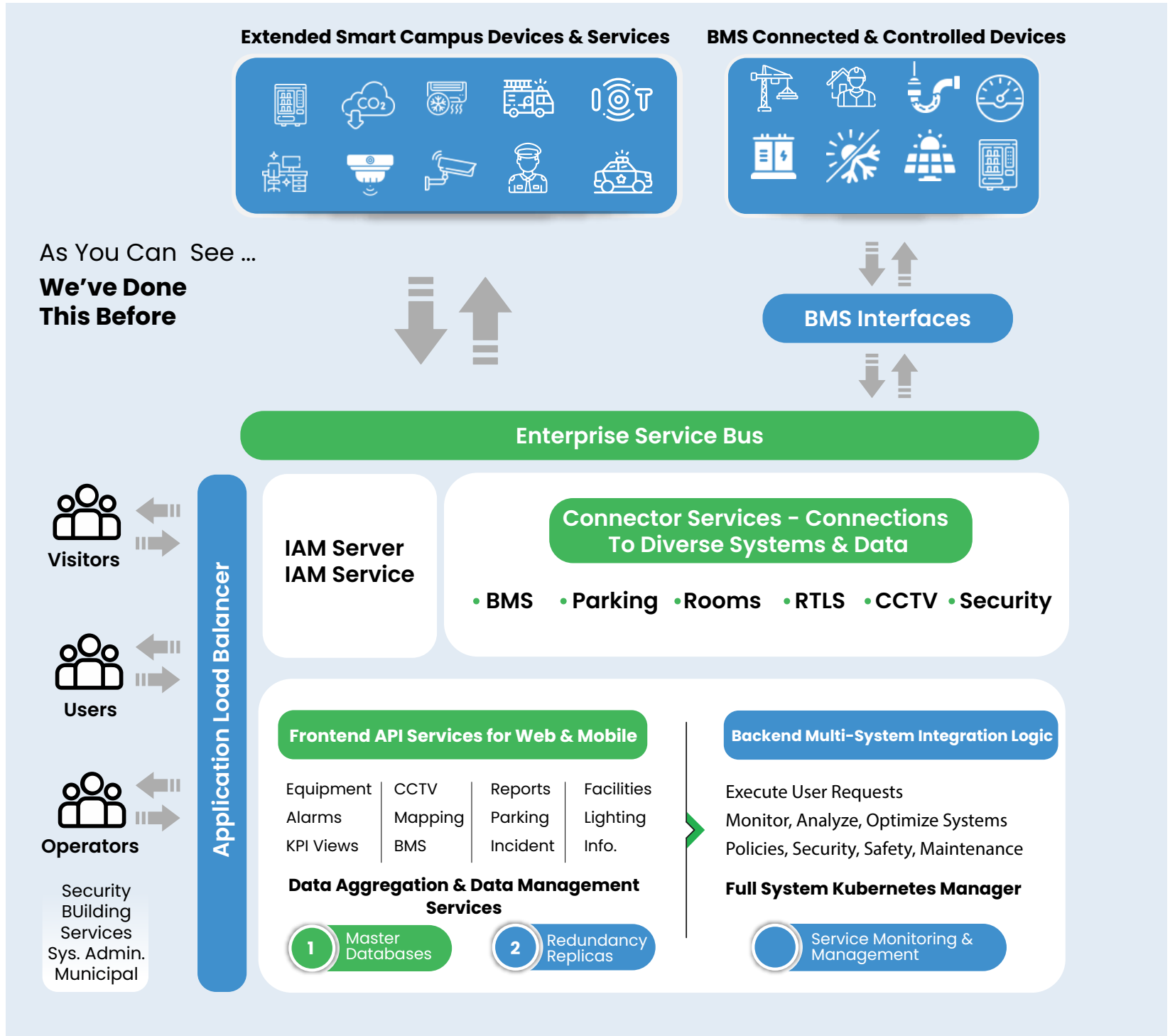
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03 IoT83 Back-End Services Logic

Underlying Big-Data Platform Services

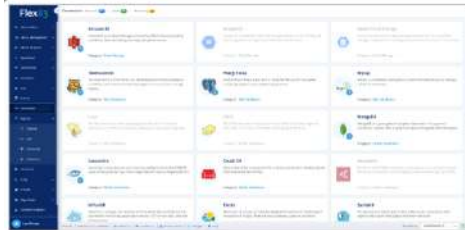
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IoT83's Application Enablement Platform (AEP) is the Foundation of Smart Building Integration Services

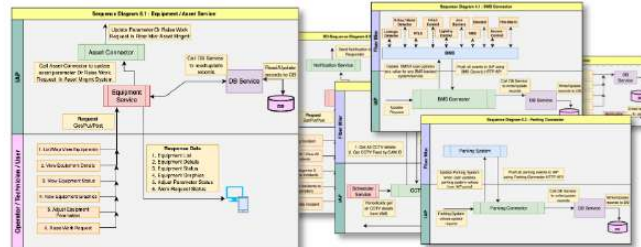


Experiance Matters

Connector Studio & Framework



Back-Logic & Services



Enterprise Service Bus

Service

Connector Services – Connections To Diverse Systems & Data

• BMS • Parking • Rooms • RTLS • CCTV • Security

Application Load Balancer

Frontend API Services for Web & Mobile

Equipment | CCTV | Reports | Facilities
Alarms | Mapping | Parking | Lighting
KPI Views | BMS | Incident | Info.

Backend Multi-System Integration Logic

Execute User Requests
Monitor, Analyze, Optimize Systems
Policies, Security, Safety, Maintenance

Data Aggrgation & Data Management Services

1

Master Databases

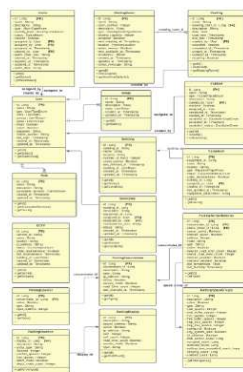
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Redundancy Replicas

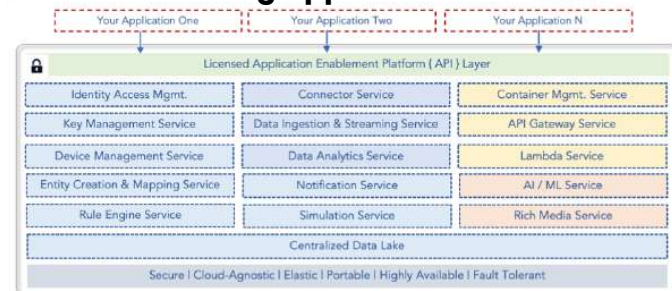
Full System Kubernetes Manager

Service Monitoring & Management

Data Structures & Design



Smart Building Application Framework



Underlying IoT83 AEP Micro Services

The Benefits of **EXPERIENCE**

- Smart Building & Campus solutions are diverse, custom, and complex. The IoT83 platform is a well established & flexible solution with the custom logic creation workflows to dramatically accelerate success.
- Operators, End-Users, and Visitors need intuitive, responsive, and easy to navigate web & mobile access to the benefits of Smart Building & Campus solutions. This is essential to a program's success.
- Smart Solutions evolve. They must easily integrate new devices, logic, and workflows for operational efficiency or new services as they are envisioned. IoT83's Application Enablement Platform (AEP) easily enables new service enhancements.
- Smart Building program costs, risks, and time-to-market are a direct function of EXPERIENCE in simplifying device connections, user interaction, data management, and platform scalability and reliability.

Get in touch
and start building your
IoT application
Seamlessly with Flex83

