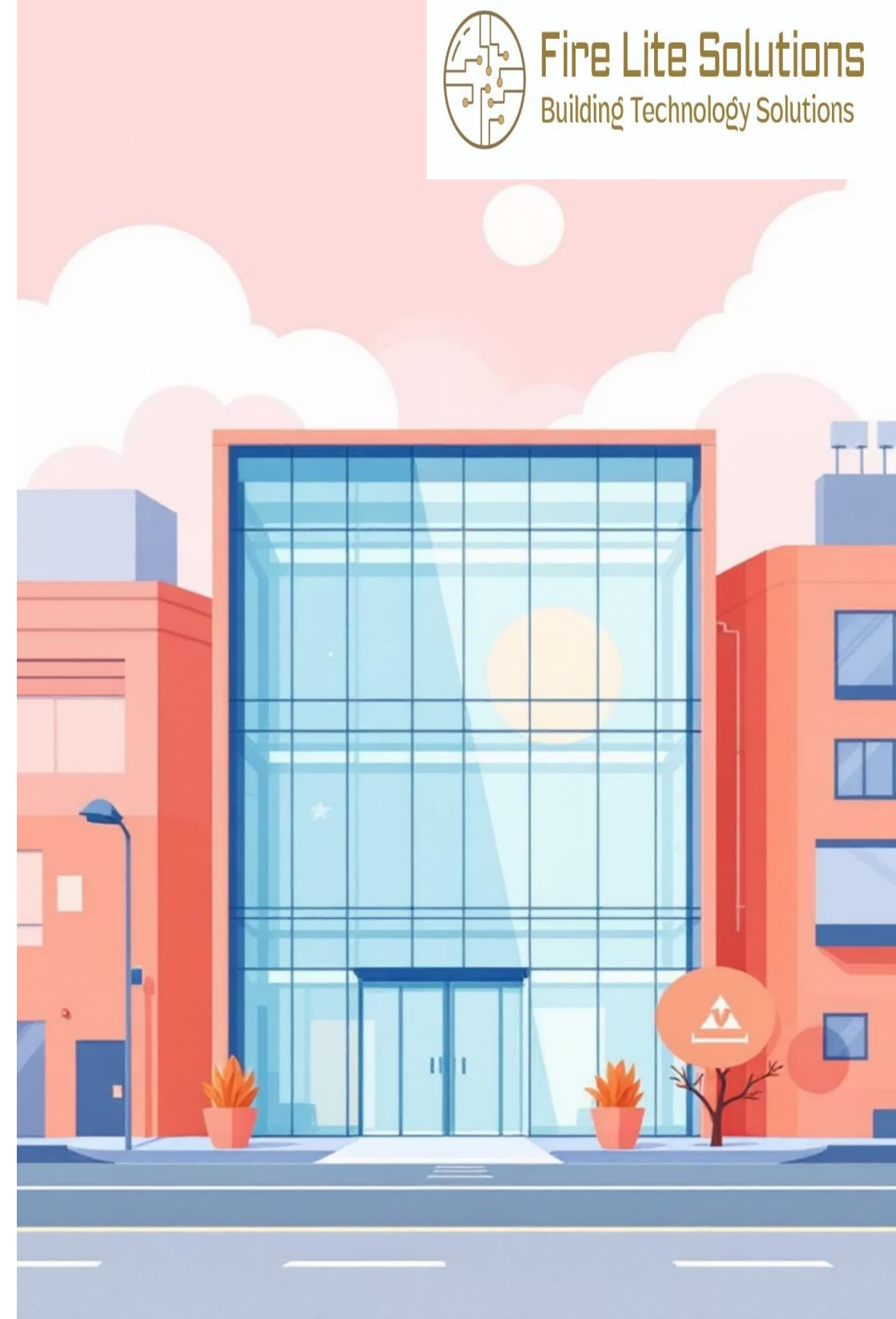




Fire Lite Solutions  
Building Technology Solutions

# Master System Integrator for Building Management Systems

Engineering-led integration and lifecycle support for multi-OEM BMS environments across commercial, healthcare, and institutional facilities.



OPERATIONAL REALITY

# Problems in Operating Buildings

## Fragmented Systems

Multiple OEM platforms operating in isolation. No unified visibility or control across building operations.

## Poor Data Quality

Weak commissioning leads to unreliable sensor data. Manual reconciliation required for basic reporting.

## Manual Reporting

Excel-based workflows for sustainability and compliance. High effort during audits and certifications.

## Limited Expertise

Building teams lack multi-vendor technical depth. Emergency support and troubleshooting delays are common.

# Why Multi-OEM BMS Becomes Complex

## Technical Fragmentation

- Proprietary protocols: BACnet, Modbus, OPC, MQTT
- Incompatible data structures and naming conventions
- Vendor-specific commissioning and diagnostic tools
- No standardized alarm management

## Operational Impact

- Separate dashboards per OEM system
- Duplicate training and support contracts
- Delayed fault detection across zones
- Inconsistent energy and performance data



# Master System Integrator

The central intelligence layer unifying all OEM systems into a cohesive operational framework.



## System Integration

Connects disparate OEM platforms through protocol translation and middleware services.



## Control Logic

Implements cross-system automation rules and optimization algorithms.



## Data Normalization

Standardizes data formats from multiple vendors into unified structure.



## Commissioning Ownership

Manages system testing, validation, and ongoing performance verification.



# Unified BMS & Cloud Layer

The top layer provides a single pane of glass for monitoring, control, and analytics across all building systems.



## Single Dashboard

Unified interface displaying real-time status of all systems and equipment.



## Alarms & Alerts

Centralized notification system for faults, anomalies, and critical events.



## Trends & Reports

Historical data visualization and automated reporting for performance analysis.



## Cloud Analytics

Advanced AI-driven insights for predictive maintenance and energy optimization.



# Engineering Ownership Across Lifecycle

01

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## Design & Integration

Protocol mapping, control logic design, and system architecture for multi-OEM environments.

03

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## Operations Support

Ongoing troubleshooting, optimization, and emergency response across all integrated systems.

02

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## Commissioning

End-to-end validation of sensors, controllers, and data points. Functional performance testing.

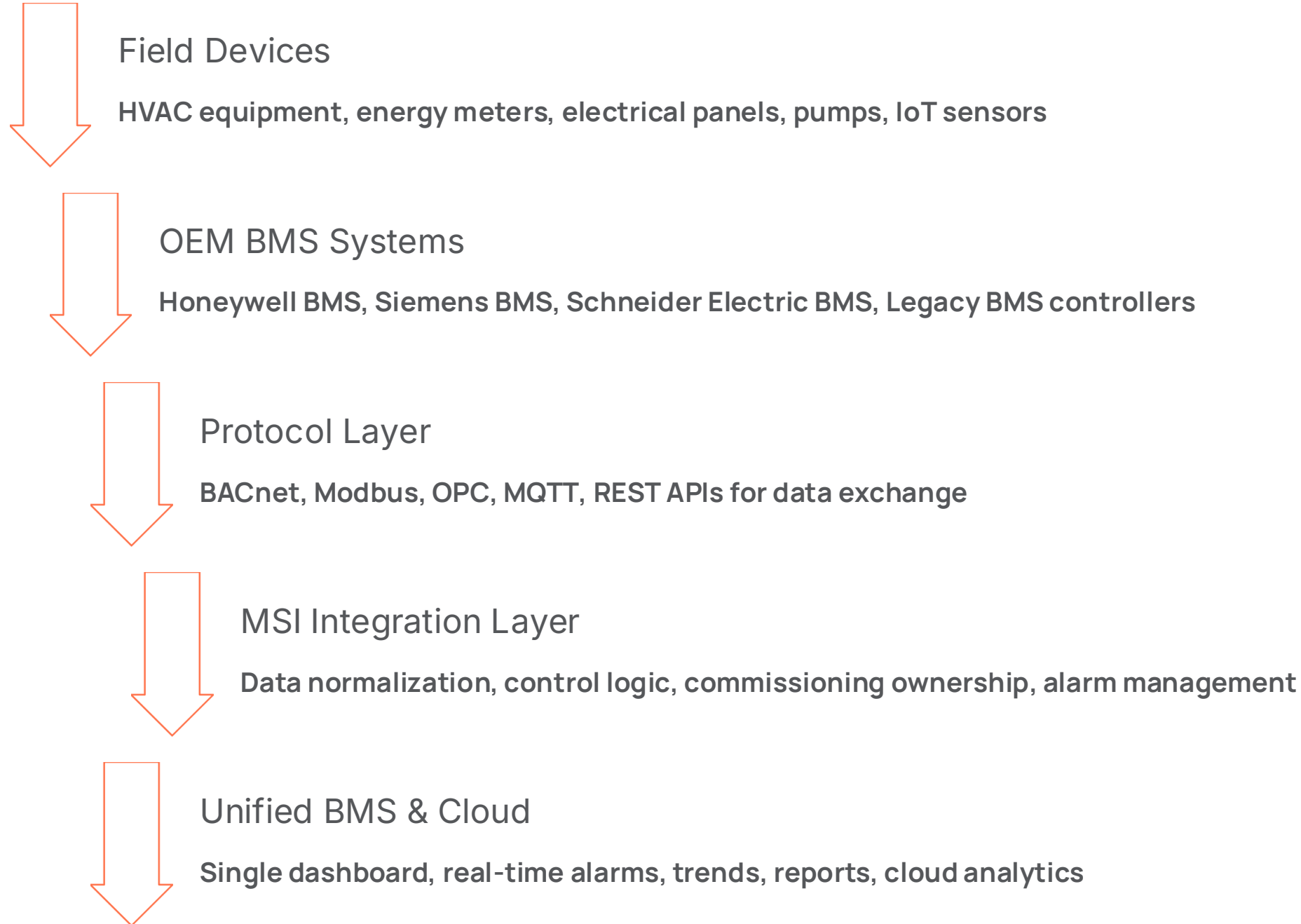
04

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## Reporting & Analytics

Automated generation of sustainability, EHS, and compliance reports from validated BMS data.

# BMS Architecture: Multi-OEM Integration



# Multi-Brand BMS Support



Honeywell

EBI, Niagara, Tridium platforms. Full protocol support and legacy migration.



Siemens

Desigo CC, Insight, APOGEE systems. Integration and performance optimization.



Schneider Electric

EcoStruxure, StruxureWare platforms. Energy management and control integration.



Legacy Systems

Proprietary and discontinued platforms. Protocol conversion and data extraction.

# Greenfield and Brownfield Engineering

## Greenfield Projects

New construction with integrated BMS design from concept phase.

- Multi-OEM system architecture and specification
- Protocol selection and network design
- Commissioning plan and acceptance testing
- Cloud connectivity and analytics setup

## Brownfield Projects

Existing buildings requiring retrofit, expansion, or system replacement.

- Legacy system assessment and integration
- Phased migration with minimal downtime
- Retrofit engineering for new equipment
- Data continuity and historical trend preservation



# Retrofit, AMC, and Emergency Support

1

## Retrofit Engineering

Equipment upgrades, controller replacement, and protocol migration. Minimal operational disruption during implementation.

2

## Annual Maintenance Contracts

Preventive maintenance, software updates, and performance optimization. Multi-vendor support under single contract.

3

## Emergency Response

24/7 technical support for critical system failures. Remote diagnostics and on-site troubleshooting across all OEM platforms.

# What Changes for Building Owners

## Single Point of Contact

One engineering partner for all OEM systems. Unified support, reporting, and accountability.

## Validated Data

Reliable sensor data through proper commissioning.  
Automated reports for audits and certifications.

## Reduced Operational Effort

Eliminate manual Excel reporting.  
Real-time dashboards and automated compliance documentation.

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## Next Steps

- Schedule technical assessment of existing BMS infrastructure
- Review current reporting requirements and compliance gaps
- Develop phased integration and support plan

# Cloud Integration and Automated Reporting



## Cloud Connectivity

Secure data pipelines from OEM systems to cloud platforms. Real-time synchronization and historical data storage.



## EHS Compliance

Environment, Health, and Safety reporting aligned to regulatory standards. Audit-ready documentation from validated BMS data.



## Sustainability Reporting

Automated LEED, WELL, and IEQ compliance reports. Energy consumption, carbon footprint, and indoor air quality metrics.



## Smart Building Analytics

Predictive maintenance, occupancy optimization, and energy forecasting. Machine learning models on normalized data.

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