



Streamlining Building Management

Resilient Edge Computing for BMS

SOLUTION BRIEF



Resilient Edge Computing for Building Operations

Building management operations impact the comfort, safety, and efficiency of building occupants. Resilient Edge Computing can help building managers to optimize their operations and improve building management. By incorporating Resilient Edge Computing into building management operations, managers can have real-time monitoring and control of building systems, enabling them to make informed decisions, improve energy efficiency, and ensure the comfort and safety of building occupants.

Overcoming Challenges

- Complexity
- Integration
- Scalability
- Flexibility
- Cost
- Maintenance and upgrades
- Resilience
- Security

Benefits of Resilient Edge Computing

Real-time data processing

Allows for the collection and processing of data from building systems in real-time. This allows building managers to quickly identify and address issues and improve the overall efficiency and operation of the building.

Reduced latency

Reduces the time it takes for data to be analysed and acted upon, which can be crucial for time-sensitive issues such as temperature control or security breaches.

Increased reliability

Helps to improve the reliability of building management systems by enabling the use of multiple, distributed processing nodes. This can help to ensure that systems continue to operate even if one node fails.

Improved security

Helps to improve the security of building management systems by enabling data to be processed and stored closer to the source. This can help to reduce the risk of data breaches and other cyber threats.

Remote operation

Allows for data processing and decision making where communication infrastructure may be limited or unreliable, allowing for continued operation and maintenance even in remote or offline areas.

Cost savings

By processing data at the edge, data transfer costs and the need for large data centres can be reduced, which can help to lower the overall cost of building management operations.



Protecting critical operations at the edge, where speed and efficiency meet.



Use Cases for Edge Computing

Real-time monitoring and control of HVAC and lighting systems for energy efficiency and cost savings.

Building access control and security using facial recognition and other biometric technologies.

Predictive maintenance of building equipment and systems to reduce downtime and prolong equipment life.

Automated building management and control based on weather forecast and other environmental factors.

Building occupancy sensing and management to optimize space usage and improve tenant comfort.

Integration of Building Management Systems with other IoT devices such as smart appliances and cameras, for enhanced control and monitoring.

Automated emergency response systems that use Edge Computing to analyse data and trigger appropriate actions.

Real-time analytics of data allowing building managers to make data-driven decisions.

Offline processing ensures smooth system operation even in case of network outages.

Not all Resilient Computing Platforms are Equal!

Our secure, rugged, highly automated computing solution delivers redundant virtualized industrial applications quickly and easily, improving productivity and reducing risk.

- Integrated virtualization and availability
- Redundant server design
- Automated protection and recovery
- Industrial interoperability
- OT maintainability
- Health monitoring and full managed support



About Stratus

Stratus ensures the continuous availability of business-critical applications for the most demanding environments. For over 40 years, we have provided reliable and redundant zero-touch computing, enabling organisations to turn data securely and remotely into actionable intelligence at the Edge, cloud, and data center – driving uptime and efficiency.

Our Service offering:

- System design and sizing
- Proof of Concept and testing
- Full solution stack deployment
- Site commissioning
- Education and certifications
- Full managed services and asset management

Expand your knowledge.
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