



Beyond Automation:

How Mission Critical Computing and SCADA are Revolutionizing Industrial Operations

SOLUTION BRIEF



Mission Critical Edge Computing for SCADA Systems

Mission Critical Edge Computing can bring significant advantages to SCADA systems by reducing latency, enhancing resilience, and lowering costs. By processing data locally and making decisions closer to the devices and sensors, edge computing can improve the speed and accuracy of decision-making, ensuring efficient and reliable control of critical industrial processes. Additionally, local processing and decision-making can enhance system resilience by enabling continued operation in the event of network failures or communication outages

Overcoming Challenges

- Remote & harsh environment
- Connectivity
- Downtime and data loss
- Security
- Integration
- Maintenance and upgrades
- 24/7 availability

Benefits of Mission Critical Edge Computing

Reduced latency

By processing data locally and making decisions closer to the devices and sensors, edge computing can reduce the latency and improve the speed and accuracy of decision-making, particularly in time-sensitive applications.

Improved resilience

Edge computing can enhance the resilience of SCADA systems by enabling local processing and decision-making in the event of network failures or communication outages.

Lower costs

Edge computing can help to reduce bandwidth usage and associated costs by processing data locally and only sending relevant information to central data centres. This can result in cost savings and improved scalability for SCADA systems.

Improved scalability

Edge computing can provide a scalable solution for processing and managing large volumes of data generated by SCADA systems, enabling operators to handle increasing amounts of data and adapt to changing demands.

Enhanced security

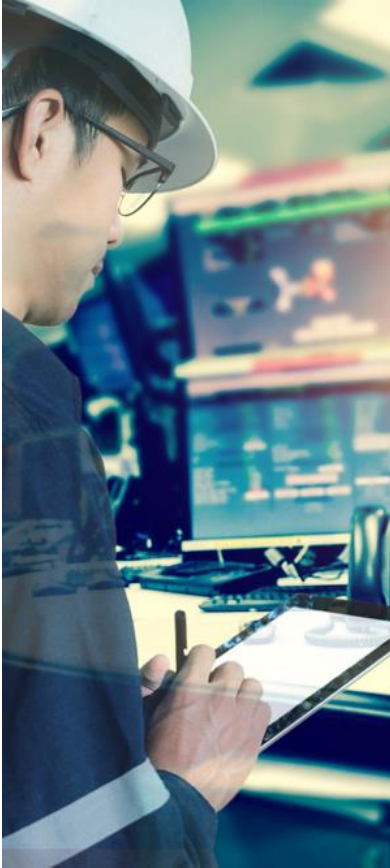
Edge computing can provide an additional layer of security for SCADA systems by enabling the use of secure communication protocols and implementing robust security measures at the network edge.

Increased competitiveness

By improving operational efficiency, reducing downtime, and making better use of data, Edge Computing helps mining companies remain competitive in an ever-changing environment.



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



Outcomes for Mission Critical Edge Computing and SCADA Systems

Improved safety: Real-time monitoring and control of critical infrastructure can help identify and mitigate safety risks before they become accidents.

Superior Data analytics: The use of mission critical computing and SCADA systems can enable advanced data analytics, providing insights that can be used to improve processes and optimize performance.

Enhanced reliability: High level of reliability and redundancy ensure that critical infrastructure remains operational even in challenging conditions.

Better decision-making: Real-time data analysis and processing provides operators with the information they need to make informed decisions and take action quickly.

Improved regulatory compliance: Real-time monitoring and control of critical infrastructure helps ensure compliance with strict regulatory requirements.

Remote access: The use of mission critical computing and SCADA systems enables remote access to critical infrastructure, providing operators with real-time data and the ability to control systems from anywhere.

Predictive maintenance: Real-time monitoring and analysis of equipment performance data enables predictive maintenance, which can reduce downtime and maintenance costs.

Not all Mission Critical Computing Platforms are Equal!

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

- Integrated virtualisation and availability
- Redundant server design
- Automated protection and recovery
- Industrial interoperability
- OT maintainability
- Health monitoring and fully 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
- Fully managed services

Expand your knowledge.
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