Reimagining Fire Safety
Enhancing Data Center Outcomes

Data centers rely on fire safety systems to protect people, critical infrastructure, and continuous operations. As facilities expand, equipment and power densities increase, and operations become more complex, teams must maintain fire system readiness while managing workforce constraints, evolving requirements, and the potential disruption caused by false alarms, testing, and system failures.

Electricity consumption by AI-focused data centers is projected to triple between 2025 and 2030.[1]

Fire and fire suppression were cited as the primary causes of a combined 11% of respondents' most recent impactful data center outages.

20% of respondents who experienced a significant data center outage said it cost approximately EUR 0.9 million.[3]

Will current practices stand up to evolving pressures?

A manual approach to fire safety can create challenges:

- **Limited visibility into fire system health and performance:** Issues may go undetected between inspections, contributing to false alarms, operational disruption, or emergency repairs.
- **Manual processes and fragmented fire-safety documentation:** Disconnected records increase administrative work and make it difficult to track corrective actions, coordinate service, and demonstrate compliance.
- **Reliance on reactive onsite service:** Issues may not be addressed until a fault or failure occurs, while site access and service coordination can delay resolution and disrupt operations.

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Transition from reactive response to proactive infrastructure protection

You have goals. Siemens helps you achieve them. With our outcome-based approach, we partner with you to develop a customized service program that improves facility operations and supports your key business objectives.

Improving fire safety operations through digital services

- Gain continuous visibility into fire system health and performance
- Automate fire-safety processes and centralize service and compliance documentation
- Identify and address emerging issues earlier through proactive, remotely supported service

Outcomes enabled:

Customer Scenario

Customer objective: A large data center sought better visibility into fire system performance across its facilities, less manual documentation, stronger compliance readiness, and testing with minimal operational disruption.

Siemens solution: Siemens provided System Performance Reporting, Soiling Level Reporting, and the Building X Fire Connect App to give the facility team clearer information about system status and developing issues. Automatic eLogbook supported consistent event and maintenance records. Where compatible devices were available, Disturbance-Free Testing supported testing with less disruption.

Positive results: The facility team could use these insights and records to prioritize corrective action, streamline documentation, and plan testing around operational requirements, supporting fire system reliability and compliance readiness.

Contact Us

Discover how Siemens fire safety services can help you improve system reliability, reduce manual effort, and support continuous data center operations. For more information, visit siemens.com.

1. International Energy Agency
2. Uptime Institute
3. Uptime Institute

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