

## CloudOps

Achieving precise building automation system control

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Building systems deviate from their intended design over time, resulting in decreased performance and reliability. And, as digital technologies continue to affect our everyday lives, we have begun to see an evolution in how building owners and operators approach system maintenance and take advantage of data analytics to drive operational efficiencies.

### Traditional maintenance approaches are failing today's businesses

Because the majority of all maintenance programs employed by facilities are reactive in nature, the cost to repair or replace equipment is typically much higher than if problems were detected and fixed earlier – not to mention the costs associated with lost productivity during downtime.

### CloudOps

As a way to overcome these issues and to take advantage of data analytics, we are seeing more cases of condition-based, outcomes-oriented services. In these cases, service is conducted based on deviations from pre-defined parameters. CloudOps takes a systematic approach to test, verify, optimize, and maintain system performance through data-driven analytics and onsite scheduled O&M. By focusing maintenance activities and prioritizing problem resolution, building owners can achieve operational and cost efficiencies.

### Driving operational efficiencies with remote analytics

CloudOps can supplement traditional building automation system controls service to optimize critical spaces and to enable precise system control and operation of both the building automation system and its peripheral controlled devices.

Once the critical equipment and spaces are identified, Siemens performs a baseline functional test of the system; from there, ongoing maintenance and corrective actions are executed based on both scheduled and rules-based analytics. The systems are analyzed remotely on a monthly basis, improving system reliability, enabling focused maintenance activities, and helping prioritize problem resolution. Ultimately, building owners realize cost reductions by performing maintenance only as required.

### Highlights

Take a systematic approach to test, verify, optimize, and maintain system performance through data-driven analytics and onsite scheduled O&M.

### Key benefits

- Gain visibility into system performance
- Reduce business and facility interruptions
- Minimize visits to equipment until data suggest there is a fault
- Increase system uptime and extend equipment lifecycle
- Create positive environmental impact

### Common KPIs

- Precise temperature control
- Precise humidity control
- System reliability

## Increase uptime with fewer business and facility interruptions

Rather than monthly, onsite visits from a technician, building owners benefit from more frequent analysis of critical building automation controls.

- up to **75%**<sup>1</sup> fewer equipment breakdowns
- up to **80%**<sup>1</sup> less time spent reacting to emergencies
- **95%**<sup>1</sup> system availability or better

## Equipment options available

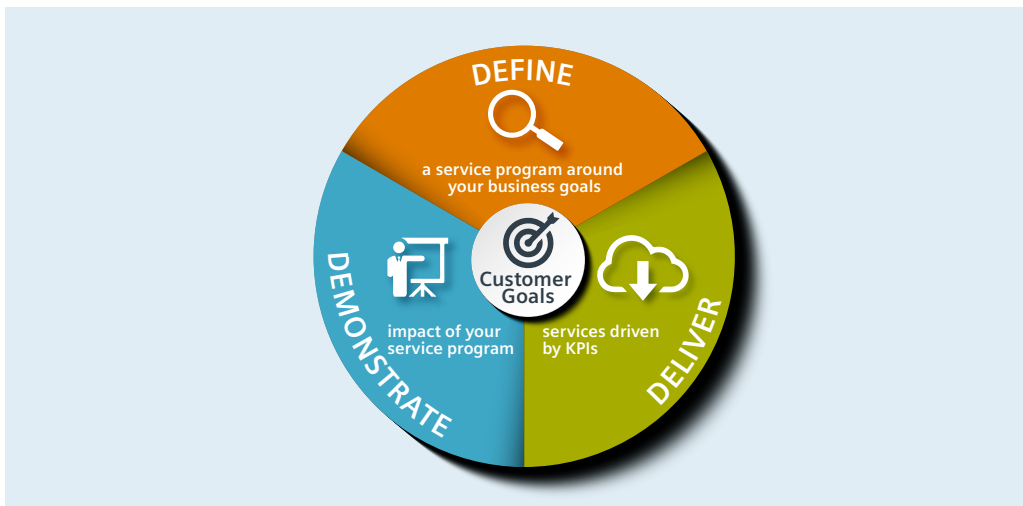
- AHUs
- Boiler plant
- Chillers
- Terminal units

## Driven by outcomes

By taking an outcomes-based approach to understanding your business needs and goals, Siemens can establish key performance indicators (KPIs) aligned with your equipment, spaces, and goals. Results are always documented and shared through Navigator and other customer reporting.

## Secure, flexible remote connection

- Flexible – Siemens can connect wirelessly, via VPN client, virtual network, or separate network connection.
- Secure – **ISO 27001 Certification** applies to VPN client and virtual networks to specify the requirements for establishing, implementing, and continually improving an information security management system within the context of the organization.



<sup>1</sup> U.S. Department of Energy. "Operations & Maintenance Best Practices: A Guide to Achieving Operational Efficiency." Federal Energy Management Program, August 2010.