

E-BOOK

Digitalize Your Building with Desigo CC

Open-platform, modular, and multi-discipline software solution delivers smart building management that maximizes performance for state-of-the-art operation and monitoring.

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The right platform for digitalization

There are more reasons than ever to digitalize buildings. Experience shows that digital technology dramatically improves operations, control, and monitoring – leading to reduced energy consumption and less downtime in new and existing buildings. Historic global health crises also made it obvious that digital technology helps maintain healthy environments, and cloud-connectivity, remote operation, and remote access are vital. Simultaneously, employees, tenants, and customers have increasingly digital lives and want technology to improve their experiences in buildings as well. They expect smarter workspaces and healthier, more comfortable indoor environments.

Smart building technology delivers when it comes to:

- Reducing operational costs and improving productivity
- Paving the way to meeting sustainability goals
- Turning buildings into assets instead of liabilities
- Creating the foundation for green infrastructure and next-generation smart cities

There's no better time than today to begin or accelerate your digital journey to a smarter building. In fact, new national and state infrastructure and clean energy bills are offering significant funding for smarter building initiatives that make it even more worthwhile.

The technology backbone for smart buildings

Make your facilities smart today and even smarter tomorrow with Desigo CC, the building management solution with an open platform and multi-system capabilities. Its comprehensive design completely digitalizes building operations, so it's easier to meet the needs of all stakeholders. Modular and flexible, it lets you configure the exact combination of building automation, electrical, security, and safety management systems required for your specific facility.

Desigo CC unifies all these disciplines on a single platform, giving you optimum control and oversight from just one interface. You'll be able to maximize building performance like never before. And because it's open, third-party applications and IoT devices can be seamlessly integrated. The result is facilities that are comfortable, safe, and efficient, regardless of their size or type.

This e-book shows how Desigo CC's multi-discipline software takes your infrastructure to a new level of peak performance.

One platform for all disciplines

The beauty of Desigo CC is it's ability to support, simplify, and accelerate workflows and interactions between all your building systems, including third-party installations. Powerful and always up to date, it uses centralized command and control. Make automatic or manual adjustments across all disciplines.

HVAC

Ensures continuous operation, coordinated elements, and extensive data analysis



Lighting

Integrates lighting and shading to reduce energy costs



Other Systems and Data Sources

Integrates any communicating devices, controls, or data sources as part of Desigo CC Ecosystem



Power

Manages power generation, distribution, storage, consumption, quality, and reliability to reduce costs and increase sustainability



Security

Helps visualize, monitor, acknowledge, and control events across access, video, and intrusion systems



Fire Safety

Easy, intuitive operation for any size or complexity; state-of-the-art alarm handling and other applications



The power of smart technology

It's never been easier to transform your building's infrastructure for today's digital world. Desigo CC's smart technology provides analytics tools that allow your facilities to learn and adapt to the changing needs of your organization.

Power of accessing data

The more insight you have about your facility's operations, the more power you have to improve them. Desigo CC's digital technology makes it easier to access, combine, and analyze building data. You can integrate data from disparate systems and third-party sources throughout one building or across an entire multi-building footprint. Combining high-quality data at a single source helps managers and operators make smarter decisions and find new inefficiencies to tackle, making your building smarter along the way.

Power of a single platform

Desigo CC's single, open platform unifies your entire building management operations for optimized performance and enhanced insights. All of your building systems will communicate and interoperate cohesively so you can achieve better outcomes.



Everyone benefits from digitalization

Stakeholders are happier when infrastructure is digitalized and buildings are smarter.



Building Owners

Adapt buildings to future needs, increase property values, and protect investments.



Building Operators

Holistic integration helps keep everything under control, enabling quick, correct reactions when problems arise.



Facility Managers

Identify and analyze issues, simplify responses, and reduce operational costs.



Occupants

People stay safe, secure, healthy, and comfortable.



Solution Partners

Reduce engineering and installation time

Comprehensive smart building management

Desigo CC is the proven path to making your buildings smart. You'll have just one system to install, program, control, and maintain. Smart building technology delivers when it comes to:

Integrate and control at all levels

Desigo CC integrates all your different subsystems – driving concerted action from them that optimizes building operations. They can be controlled at all levels from one location.

- **Cloud:** Cloud connectivity extends the platform for real-time visualization and complete historical data analysis of geographically dispersed sites.
- **Management:** Software gives you control needed to create and maintain comfortable, safe, and efficient facilities.
- **Automation:** Provides one location for managing all primary equipment and supervisory controls.
- **Field:** Increases transparency and lets you check room and zone controls, evaluate performance, and easily make system changes.
- **IoT:** Enables you to integrate and then control devices using data they generate.

More flexible and modular

Desigo CC is so flexible and modular, you can make your building smarter, regardless of function. It's easily upgraded and backwards compatible and adapts seamlessly to building changes and new applications. And its scalability and extendibility help you meet changing requirements.



A state-of-the-art platform

Desigo CC features the innovations that make smarter buildings simple and easy to operate.



Easy to engineer

- Standard protocols and interfaces, including BACnet, Modbus, OPC, and IoT
- Migration tools simplify legacy system transition to Desigo CC
- Flexible design and templates
- Audit, wizards, reports, trends, dashboards, schedules, graphics, alarms, devices, notification, and connectivity
- Engineering console delivers quick, easy access to workflows
- Network wizard provides guided subsystem integration workflows
- Powerful open APIs available for creating your own apps
- Desigo CC Application and Integration Center (AIC) team can help you create tailored solutions for specific installations.



Enhanced security

- Designed with cybersecurity in mind
- Compliant with IEC62443-3-3 and –4-2 Security Level 2 +
- Supports Active Directory, LDAP, OIDC, single sign-on, and multi-factor authentication
- Continuous updates to respond to new threats



Easy to operate

- Unique, intuitive user interface
- Remote access with any HTML5 compatible web-browser
- Supports smart devices and touch operation
- Operator tasks, remote notifications, and trend viewer ease daily work

Connect. Collaborate. Succeed.

Meet even more of your smart building needs by leveraging the Desigo CC Ecosystem, a valuable and well-established Siemens community. Its multiple complementor partners are continually developing applications connected to Desigo CC that expand the platform's capabilities and lead to new smart building functionality. Desigo CC sometimes pulls data from the application and sometimes the application pulls data from Desigo CC. In this symbiotic Ecosystem, Desigo CC becomes an open platform for collaboration, benefiting everyone involved.

Vendor neutral

The more applications and extensions connected to Desigo CC, the more powerful the platform becomes. Desigo CC's openness makes third-party integration and mutually beneficial collaborations possible. Developers can easily tie in their platforms and applications to come up with new solutions. The goal and the power of the Ecosystem is to make everyone faster, more innovative, and more competitive.



Desigo CC Ecosystem in action

Here are just a few of the ways building owners and operators are using Desigo CC to make their smart buildings smarter.

Elevator management

Monitor elevator positions and status in real time. Return elevators to the ground floor in emergencies or automatically call for help if an elevator is stuck.



Active shooter detection

A system that can detect and distinguish genuine gunfire makes responses faster and can potentially save lives. Desigo CC automatically sounds alarms, sends notifications, and locks or unlocks doors.

Calendar management

Use calendar consolidation to adjust the temperature, unlock doors, and turn lights on only when the room is in use. When the scheduled event is over, Desigo CC can shut down the space by turning everything off and securing it.



EV charging station management

Integrate electric vehicle charging stations into your building management system to monitor and control your entire charging infrastructure.



Desigo CC is the technology backbone for your smart building infrastructure. Bringing multiple systems together into one interface to monitor and control your buildings is paramount to achieving your goals. Improve productivity, efficiency, and well-being with Desigo CC.

Learn more at:

usa.siemens.com/desigocc

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