

Desigo CC™

P55802-Y114-A100



Desigo CC is the integrated, scalable, and open building management platform for managing high-performance buildings. With its intuitive, easy-to-use user interface, Desigo CC supports the following building management tasks:

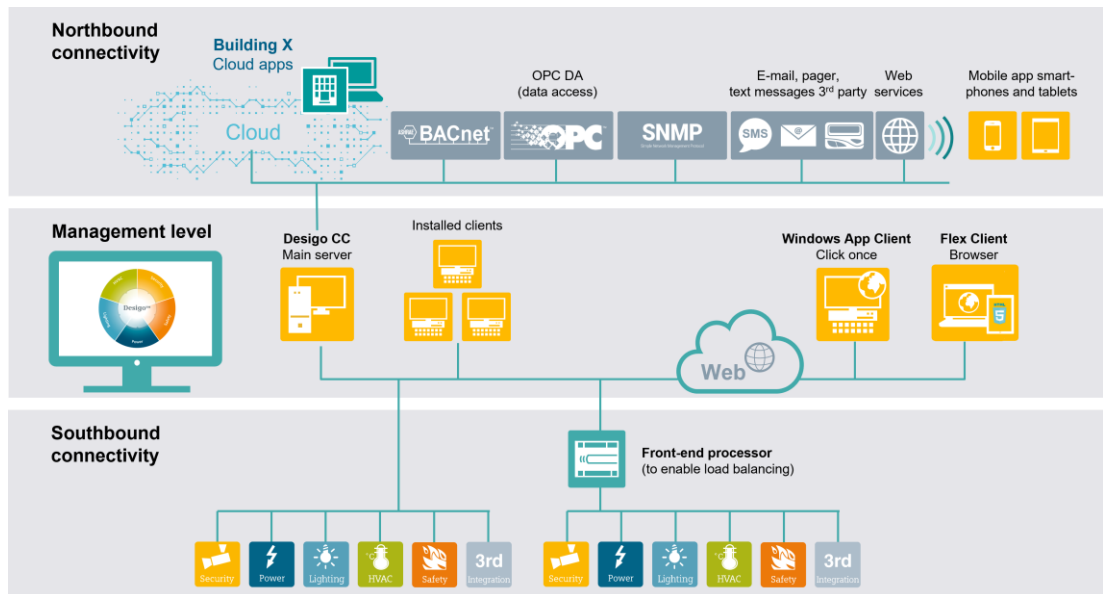
- Operate and monitor the building infrastructure graphically
- Guide operators in the handling of critical situations
- Detect, visualize, and acknowledge/reset faults and alarms
- Collect, visualize, and compare online and offline Trend data
- Create schedules to automate building operation and configure exceptions
- Create and configure report definitions to produce a variety of performance reports
- Create and configure dashboards to monitor Power KPIs
- Analyze Energy consumption and power usage reading meter data
- Store and retrieve system activity data, and view data logs
- Create and execute automated reactions between the networked systems
- Send automatic notifications via email, SMS, and pagers
- Participate in the Internet of Things through open APIs and custom adapters

General Description

Desigo CC offers full integration of building automation, fire safety, power management, electrical applications, access control, and video systems, while also supporting open standards such as BACnet, OPC, Modbus, SNMP, and more. Desigo CC also provides customizable and market-specific solutions. Three different client variants are available. The installed client and the Windows Desktop App Client provide the same user interface. The browser-based Flex Client is based on HTML5 technology and combines proven operating concepts with a new user experience. Additionally, web services interfaces provide increased flexibility for data sharing, operation, and user interface extensions such as mobile applications for tablets and smartphones.

System Architecture

Desigo CC is a client-server system designed to augment existing building infrastructure and integrate with standard IT hardware, software, and networks. The open, adaptable architecture supports the most common Windows-based IT infrastructures. In addition, Desigo CC allows full server functionality in virtual IT environments and advanced networks. A Desigo CC installation can be configured as a single server or as multiple servers in a distributed configuration.



System Capabilities

- Fully scalable and secure distributed client/server architecture with multi-language support
- Web and remote access from mobile clients
- Connectivity to the Building X open platform. This means that selected Desigo CC data can be shared with all cloud-based Building X applications like for example Operations Manager, Energy Manager and 360° Viewer
- Open-data libraries designed for extensions and integrations
- Southbound connectivity through BACnet, BACnet/SC, OPC DA and UA, Modbus, HTTP(S), SNMP, KNX, IEC61850, HTML5, Haystack, Power, Power Quality, S7 and S7 Plus standards, and SDK to develop subsystem extensions
- Powerful features such as advanced event management, Mobile App, notifications, scheduler/reaction processor, reports, log viewer, long-term storage, user management
- Support for 150,000 objects in a single system or up to 1,500,000 objects in distributed systems
- Consistent user interface concept across all applications, with graphic-oriented operation workflows

- Online engineering with wizards, including data discovery, CAD import, and automatic positioning of graphic symbols
- Support for Siemens and third-party building automation, fire safety, energy, security, power management units and other building devices
- Northbound connectivity through BACnet Server, OPC DA Server, SNMP, and RESTful Web Services interfaces
- Support of authentication via most common OIDC providers (Google, Microsoft, Amazon)
- Consolidated Ecosystem program and network to share and expand subsystem extensions, applications, utilities, and tools

Certifications and Approvals

Desigo CC has been tested against a wide range of domain- and country-specific norms and standards, including:

- IT security compliant with ISA-99/IEC 62443 Security Level 2 (SL2)
- BACnet Protocol Revision 1.18, certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (B-AWS, B-ALWS, B-AACWS, B-RTR, B-BBMD)
- AMEV recommendation BACnet 2017 compliant with Management Operation Unit (MOU-B) profile
- OPC DA V2.05a and V3.0 Server, certified by the OPC Foundation certification program
- Support of pharmaceutical industry regulatory requirements, such as US FDA 21CFR Part 11, GMP Annex 11 or similar

UL/ULC listed to:

- UL-864 10th edition Standard for Control Units and Accessories for command and control when installed on a UL-864 approved computer
- UL 2017 2nd Edition, General-Purpose Signaling Devices and Systems
- UL-2572 2nd Edition Standard for Mass Notification
- UL 2610 2nd Edition Standard for commercial premises security alarm units and systems (this standard replaced UL 1076)
- UL-294 7th Edition Standard for Safety–Access Control System Units
- CAN/ULC-S527 3rd Edition: Control Units for Fire Alarm Systems
- CAN/ULC-S559 2nd Edition, Equipment for Fire Signal Receiving Centre and Systems
- CAN/ULC S576 1st Edition, Standard for Mass Notification System Equipment and Accessories

Desigo CC V6 is not UL/ULC listed. If UL or ULC approval is required, please use V5.0 or V5.1. UL/ULC listing for V7 is still pending.

Technical Data

Operating System Compatibility

The Server and Installed Clients run on the following Microsoft operating systems and editions:

- Microsoft® Windows 10 64-bit (Pro and Enterprise)
- Microsoft® Windows 11 64-bit (Pro and Enterprise)
- Microsoft® Windows Server 2019
- Microsoft® Windows Server 2022

Flex Clients and Windows App Clients run on the following Microsoft operating systems and editions:

- Microsoft® Windows 10 64-bit (Pro and Enterprise)
- Microsoft® Windows 11 64-bit (Pro and Enterprise)

Server Hardware Requirements (minimum recommendation)

Physical Machines

- Hard disk: 1 x SSD 256GB (client); 1 x SSD 512GB to 2 TB (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large-sized server); 64GB (distributed system)
- Processor:
 - Core i5 8th generation or later (or equivalent), ≥ 2.8 GHz, ≥ 2 cores (client)
 - Core i7 8th generation or later, CPU Mark $\geq 13,000$, Single Thread Rating $\geq 2,300$ (or equivalent), ≥ 4 cores per running system (server)
- UL/ULC-listed hardware: required for UL/ULC applications

Virtual Machines

- Hard disk: 1 x SSD 256GB (client); 1 x SSD 512GB to 2 TB (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large-sized server); 64GB (distributed system)
- Processor:
 - Core i5 8th generation or later (or equivalent), ≥ 2.8 GHz, ≥ 2 vCPUs assigned to the VM (client)
 - Core i7 8th generation or later, CPU Mark $\geq 13,000$ (or equivalent), Single Thread Rating $\geq 2,300$ (or equivalent), ≥ 4 vCPUs assigned to the VM (server)

Microsoft SQL Server Compatibility

Microsoft SQL Server 2019 Express is free and included with the installation media. Additional supported SQL version and editions are:

- Microsoft® SQL Server 2019 (Express, Standard, and Enterprise)
- Microsoft® SQL Server 2022 (Express, Standard, and Enterprise)

Ordering Information

For ordering information related to Desigo CC™, please visit our online tool [HIT](#).

Resources

For the latest information about Building Products and Siemens Smart Infrastructure, visit our [Building Products](#) site.

For other datasheets, see the following:

- Cerberus® DMS
- Desigo CC™ Compact for Building Automation
- Desigo CC™ Compact DMS
- Desigo CC™ Compact Validated Monitoring
- Desigo CC™ Compact for Electrical applications

For more information, refer to your local sales organization.

Cybersecurity Disclaimer

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends compliance with security advisories on the latest security threats, patches, and other related measures—published, among others, under <https://www.siemens.com/cert/> => 'Siemens Security Advisories'.

Issued by
Siemens Switzerland Ltd
Smart Infrastructure
Global Headquarters
Theilerstrasse 1a
CH-6300 Zug
+41 58 724 2424
www.siemens.com/buildingtechnologies

© Siemens 2012-2023
Technical specifications and availability subject to change without notice.

Document ID A6V11852691_en_a_70
Edition 2023-09-30