SIEMENS

Desigo CC

Product Datasheet

Description

The Desigo™ CC management platform provides an integrated approach to managing and controlling facilities from a flexible, easy-to-use interface that allows users to:
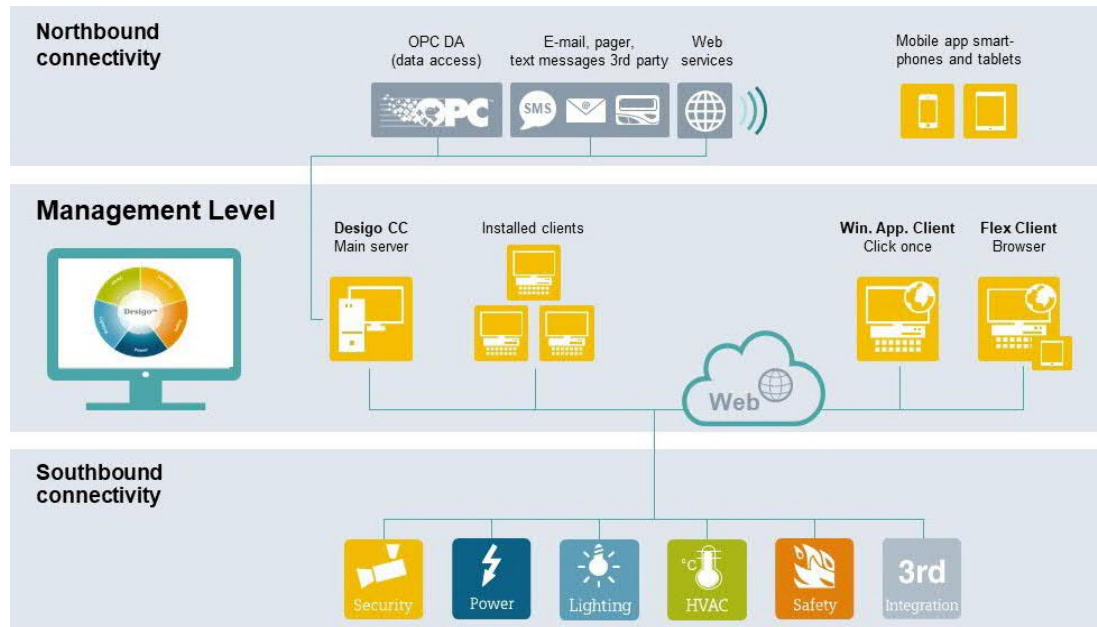
- Operate and monitor the building infrastructure graphically
- Guide operators in the handling of critical situations
- Detect, visualize, and acknowledge/reset faults and alarms
- Collect, visualize, and compare online and offline Trend data
- Create schedules to automate building operation and configure exceptions
- Create and configure report definitions to produce a variety of performance reports
- Create and configure dashboards to monitor Power KPIs
- Store and retrieve system activity data, and view data logs
- Create and execute automated reactions between the networked systems
- Send automatic remote notifications via email, SMS, and pagers
- Participate in the Internet of Things through open APIs and custom adapters

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, and more. Desigo CC also provides customizable and market-specific distributions. Options are available for dedicated, browser-

based, and Windows desktop app clients using the same user interface. Additionally, web interfaces provide increased flexibility for operation and future 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
- Open-data libraries designed for extensions and integrations
- Support for BACnet, OPC, Modbus, HTTP(S), SNMP, M-bus, KNX, IEC61850, HTML5, Haystack, Power, Power Quality, and S7 and S7 Plus standards
- Powerful features such as advanced event management, Mobile App, remote notifications, scheduler/reaction processor, 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, 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 OPC DA server and REST Web Services interfaces
- Southbound open interfaces and SDK to develop subsystem extensions
- Consolidated Ecosystem program and network to share and expand subsystem extensions, applications, utilities, and tools

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

- BACnet Revision 1.15, certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (BTL B-AWS)
- AMEV recommendation BACnet 2017 compliant with Management Operation Unit (MOU-B) profile
- IT security compliant with the ISA-99/IEC 62443 Security Level: SL1
- 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

Technical Data

All systems should be dimensioned according to project size, and you should maintain OS compatibility until Microsoft retires the product.

Operating System Compatibility

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

- Microsoft® Windows 7 64-bit (Professional and Enterprise)
- Microsoft® Windows 10 64-bit (Professional and Enterprise)
- Microsoft® Windows Server 2012 R2 64-bit
- Microsoft® Windows Server 2016 64-bit
- Microsoft® Windows Server 2019 64-bit

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

- Microsoft® Windows 7 64-bit (Professional and Enterprise)
- Microsoft® Windows 10 64-bit (Professional and Enterprise)

Hardware Requirements (minimum recommendation)

Physical Machines

- Hard disk: 1 x 256GB SSD (client); 1 x 1024GB SSD (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large server)
- Processor: Core i5 or equivalent ≥3.0 GHz, 2 cores (client); Core i7 or equivalent ≥3.2 GHz, 4 cores per running system (server)
- UL/ULC-listed hardware: required for UL/ULC applications

Virtual Machines

- Hard disk: 1 x 256GB SSD (client); 1 x 1024GB SSD (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large server)
- Processor: 2 vCPUs assigned to the VM ≥3.0 GHz (client); 4 vCPUs assigned to the VM ≥3.2 GHz (server)

Microsoft SQL Server Compatibility

Microsoft SQL Server 2014 R2 Express is free and included with the DVD image. Additional supported SQL version and editions are:

- Microsoft® SQL Server 2012 (Express, Standard and Enterprise)
- Microsoft® SQL Server 2014 (Express, Standard and Enterprise)
- Microsoft® SQL Server 2016 (Express, Standard and Enterprise)
- Microsoft® SQL Server 2017 (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 BA
- Desigo CC Compact DMS
- Desigo CC Compact Validated Monitoring
- Desigo CC Compact for Electrical applications
- Desigo CC Connect

For more information, refer to your local sales organization.

Cyber Security 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/en/cert-security-advisories.htm.