SIEMENS

Desigo CC™ Connect

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Desigo CC Connect is one of the variants of the Desigo CC product family, specifically developed to integrate a variety of devices and protocols into a common software layer. It is designed among others to:

- Act as a software gateway between systems with different protocols
- Decentralize the computational power on the node level and inject additional intelligence
- Participate in the Internet of Things through open APIs and custom adapters
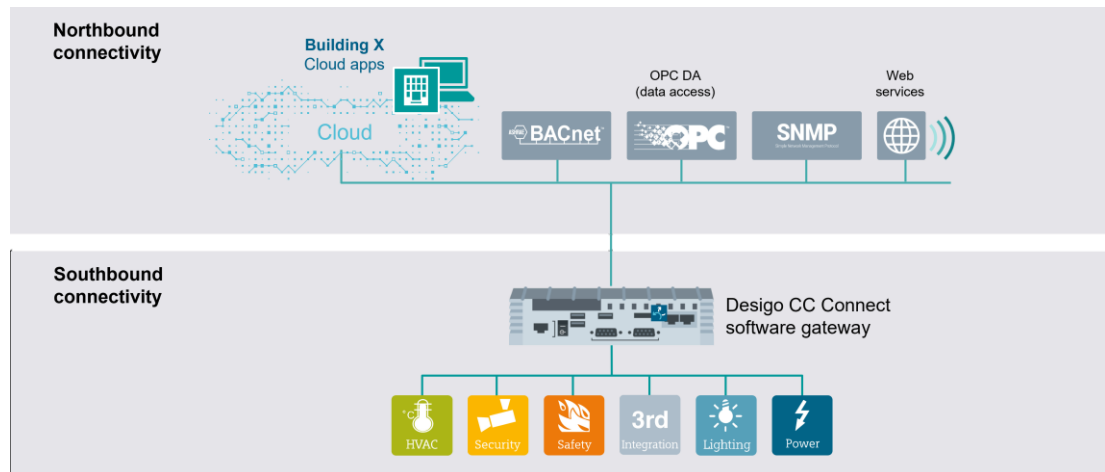
General Description

Desigo CC Connect is a gateway between systems with different protocols. Desigo CC Connect as a software platform, incorporates the industry's latest software technology to integrate BACnet, Modbus, KNX, SNMP, S7 and various disciplines (for example, Danger Management), into a common object model and is supported by a powerful computational engine.

The Desigo CC Connect with its own intelligence, has less need to send information back to a central server because of the embedded interpretation capability. By moving more intelligence to the Desigo CC Connect node, the software can decentralize functionalities such as: data collection, event collection, calendar functions, time scheduling, time-based functions, mathematical/logic calculations, reactions, logics and data interactions.

Desigo CC Connect software gateway is flexible and able to manage complex requirements in small or large scaled projects, where distribution of computational effort is required. The software is enabling seamless integration at the IP level and provides a full engineering environment. In addition, Desigo CC Connect is able to expose information to a higher level via the Restful API, the BACnet or via the OPC Northbound Interface.

System Architecture

Desigo CC™ Connect is a gateway server designed to augment existing building infrastructure and integrate with standard IT hardware, software, and networks. The open, adaptable architecture can support virtual IT environments and advanced networks.

System Capabilities

- 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
- Open-data libraries designed for extensions and integrations
- Support for Siemens and third-party building automation, danger management, power management units and a variety of other systems
- Northbound connectivity through BACnet IP server, OPC DA server, SNMP and RESTful Web Services interfaces (WSI)
- Connectivity to Building X open platform. This means that selected Desigo CC Connect data can be shared with all cloud-based Building X applications like for example Operations Manager and Energy Manager.
- Consolidated Ecosystem program and network to share and expand subsystem extensions, applications, utilities, and tools

Certifications and Approvals

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

- IT security compliant with the ISA-99/IEC 62443 Security Level 2 (SL2)
- BACnet Revision 1.18, certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (B-AWS, B-ALSWS, 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

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 10 IoT Enterprise 2016 LTSB

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

Microsoft® Windows Server 2019

Microsoft® Windows Server 2022

Hardware Requirements (minimum recommendation)

Physical Machine

- Hard disk: 512GB SSD
- RAM: 16GB
- Core i7 8th generation or later, CPU Mark ≥13,000, Single Thread Rating ≥2,300 (or equivalent), ≥4 cores per running system

Embedded Hardware (limited to 10,000 system objects)

- Hard disk: 64GB SSD
- RAM: 8GB
- Processor: Celeron N2930 (or equivalent), >= 1.83GHz, 4 cores

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 Connect, 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'.