



SIEMENS Designo CC V4 Connect Software Gateway Instruction Manual

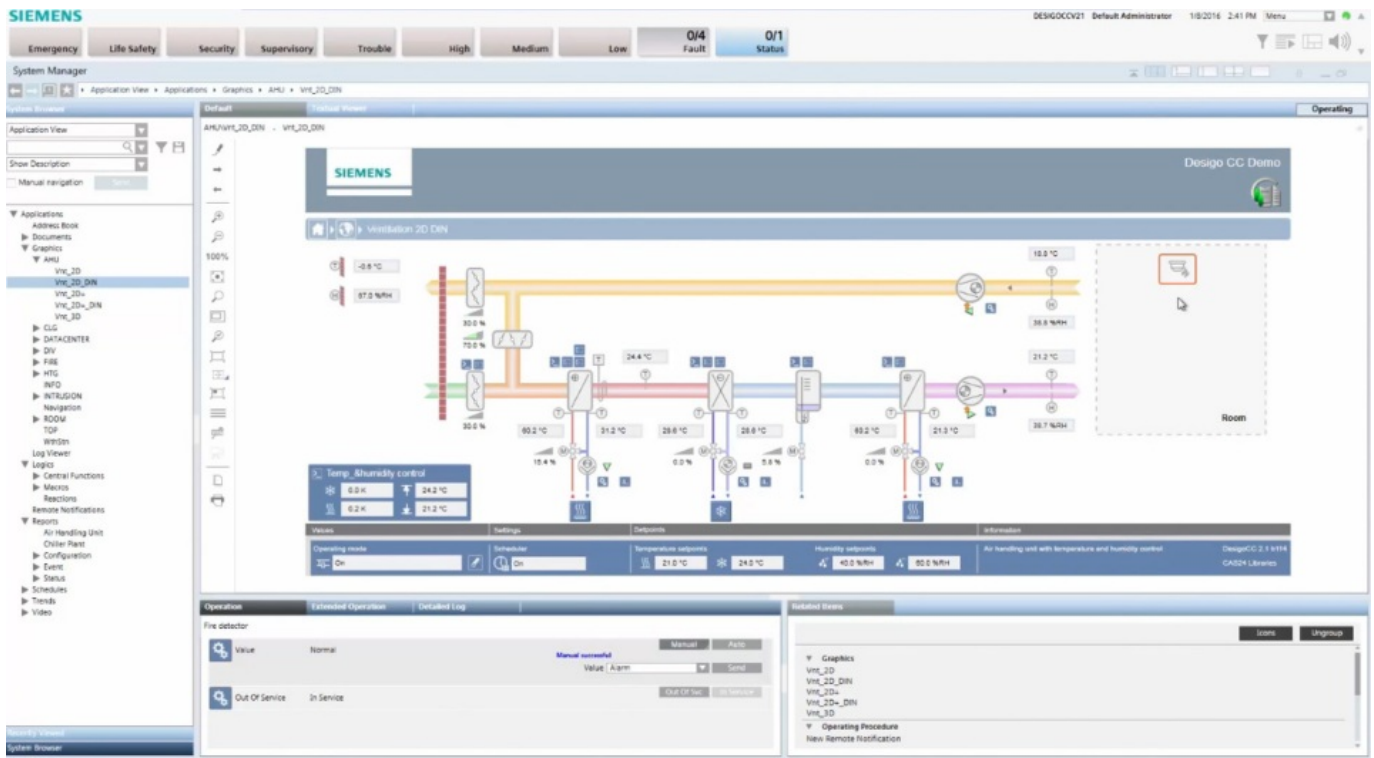
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SIEMENS Designo CC V4 Connect Software Gateway



Design CC Connect



Target groups



- BP and RSS sales and technical personnel

Objectives



- Providing product information and positioning under Desigo CC family
- Showing key features and benefits offered by Desigo CC Connect
- Explaining use cases and topologies

Agenda



- Explaining Desigo CC Connect
- Why Desigo CC Connect
- Use cases
- Positioning under Desigo CC Family
- Licensing

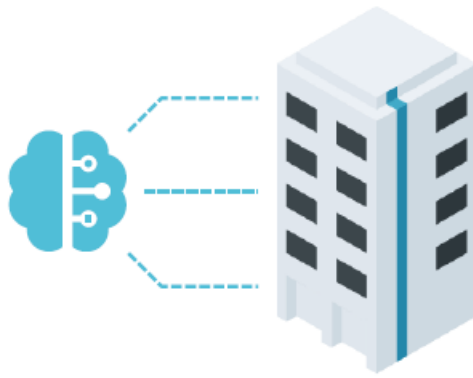
The Desigo CC Connect software gateway

Connect devices of various sources



- Incorporates latest industry standards
- Integrates devices from various disciplines (e.g. fire, building automation, power etc.)
- Normalizes information into a common software layer

Edge computing at the node level



- Provides embedded interpretation and analysis capability
- Collects and analyses the integrated data directly at the node level

Elevated Data to 3rd apps



- Password protected and IT compliant for cybersecurity
- Can connect with various 3rd party applications
- Can exchange data between two or more different sources

Main features

Connectivity



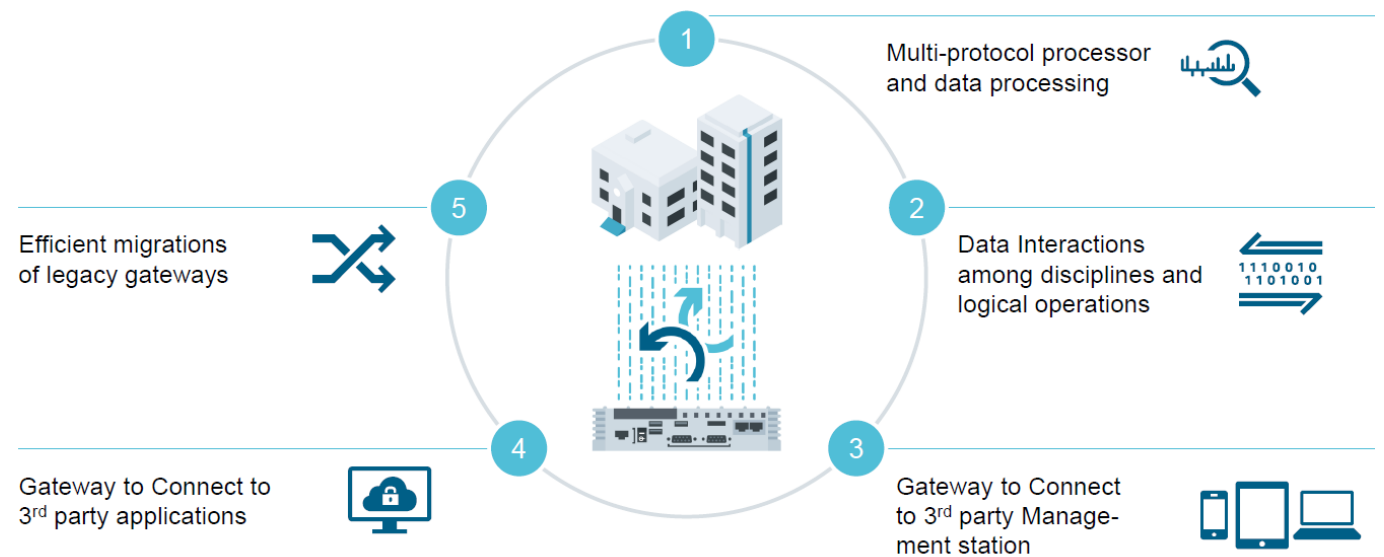
- BACnet, OPC, Modbus TCP, SNMP, KNX, M M-Bus

Data Analysis



- Data collection, scripting, logics, macros, calculations

Why Designo CC Connect?



Use Case 1: Calculation and data analysis





Sensors from different communication protocols are installed to monitor the storage area which is critical, and an expert would like to calculate the average temperature level in this area to perform KPI analysis and decide if the levels of temperature are adequate enough. Current monitoring system does not perform calculations and data analysis.

How can I create and assess the KPIs of temperatures in my storage area?



Facility expert

-  Temperature sensors from system X.
-  Temperature sensors from system Y.

Use Case 2: Designo CC Connect for logical operations and data collection



The service technician is working part time in this school but would like the system to switch off the HVAC system if a fire sensor is activated. He would like also to capture the energy consumption of the building since the school owner requested energy transparency but no building management station is installed.

How can I deliver added value to a site where no management station is installed?



Service Technician



- Interactions between different disciplines, protocols and systems



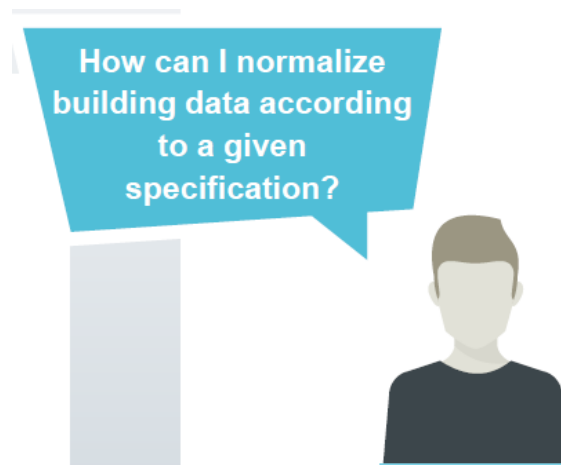
- Data collection of key figures

Use Case 3: Design CC Connect for 3rd party applications



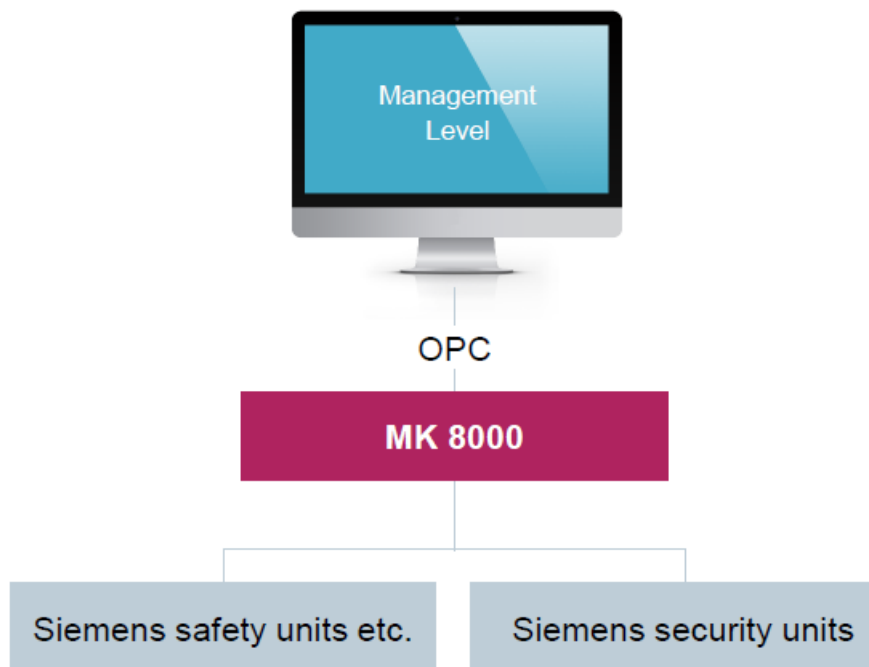
In a HQ of a multinational IT company various subsystems including building automation, fire safety and power, are installed. The monitoring system which is a 3rd party management station is specified with OPC connectivity for the field devices. Unfortunately, not all of the field networks and systems are communicating via OPC.

System Integrator

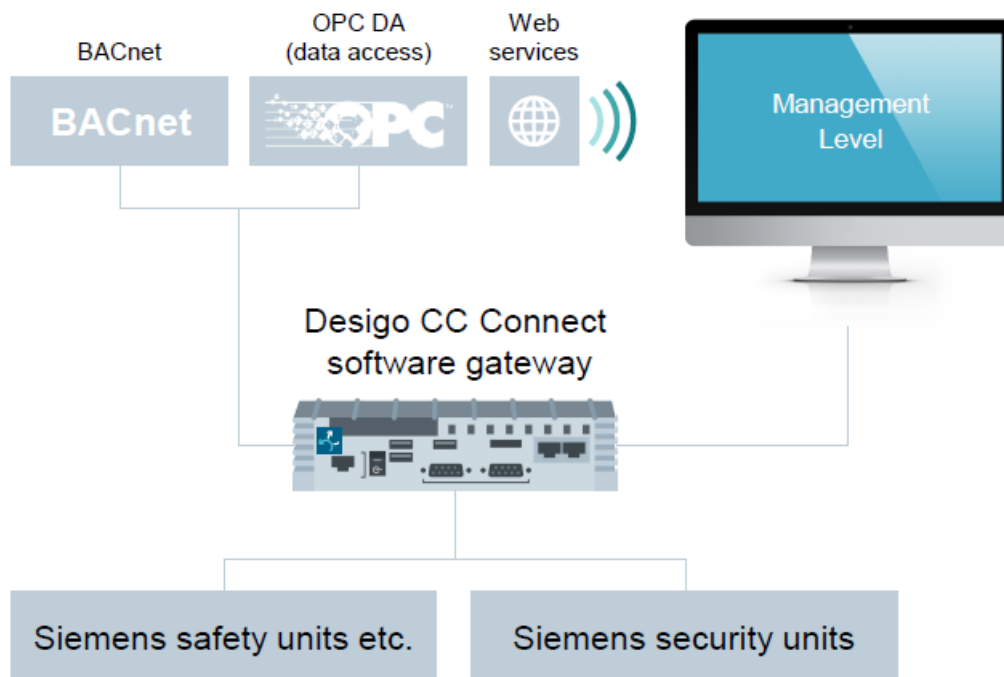


- Connect and normalize various communicative systems
- Deliver information to a 3rd party system via the northbound interface of Desigo CC Connect

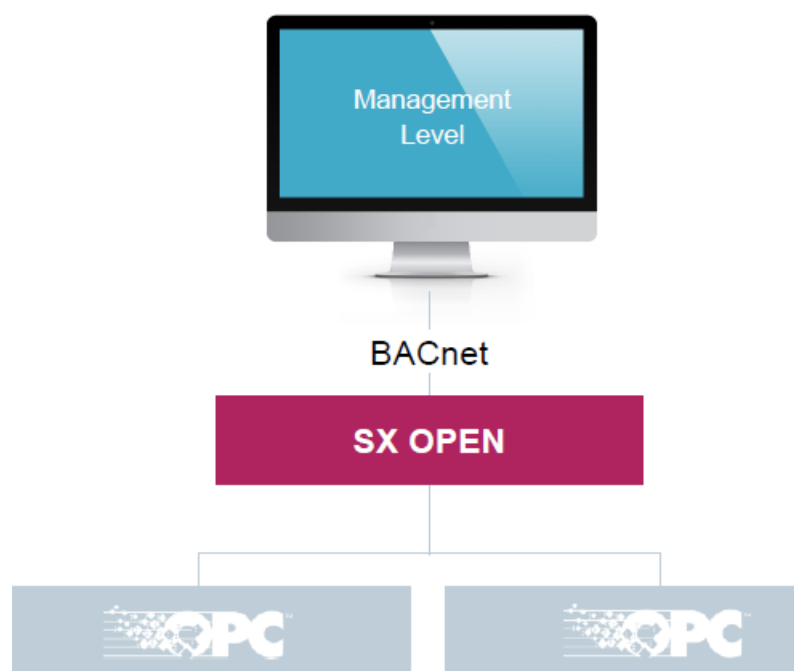
Use Case 4: Desigo CC Connect as a replacement product for MK 8000



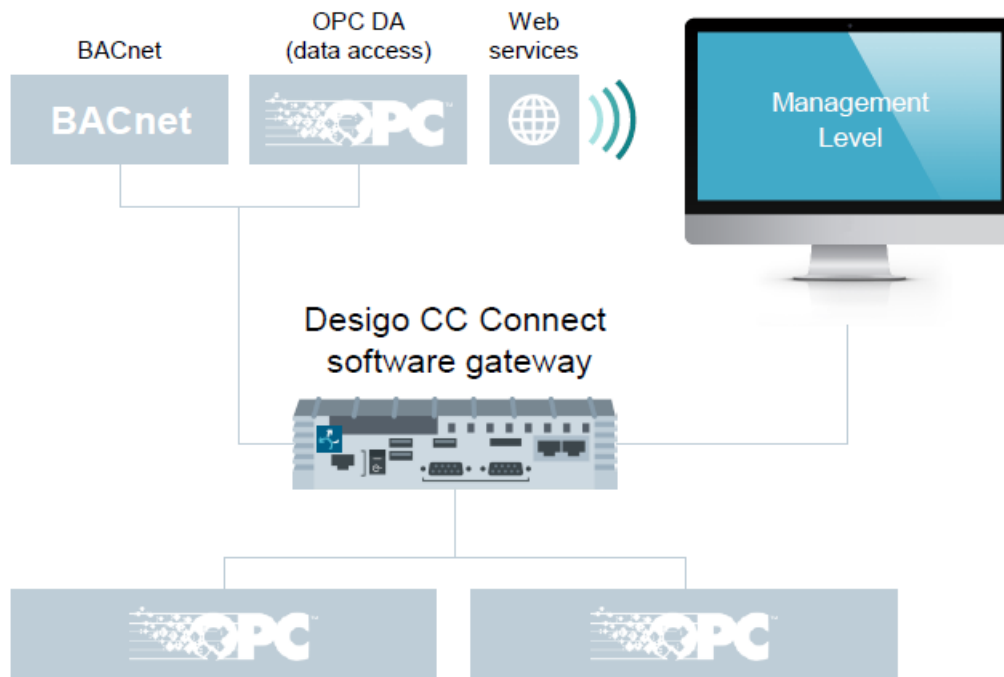
- Simplified streamlining of legacy software gateway, with a state-of-the-art technology powered by Desigo CC's powerful engine.



Use Case 5: Designo CC Connect as a replacement product for SX OPEN



- Simplified streamlining of legacy software gateway, with a state of the art technology powered by Designo CC's powerful engine.

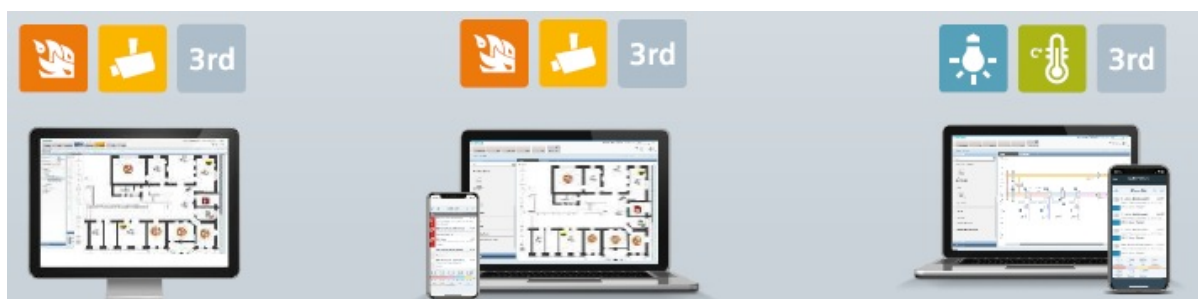


Designo CC family

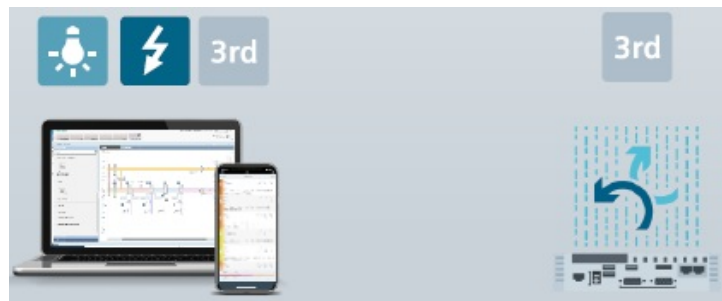
Designo CC



- Integrated building management



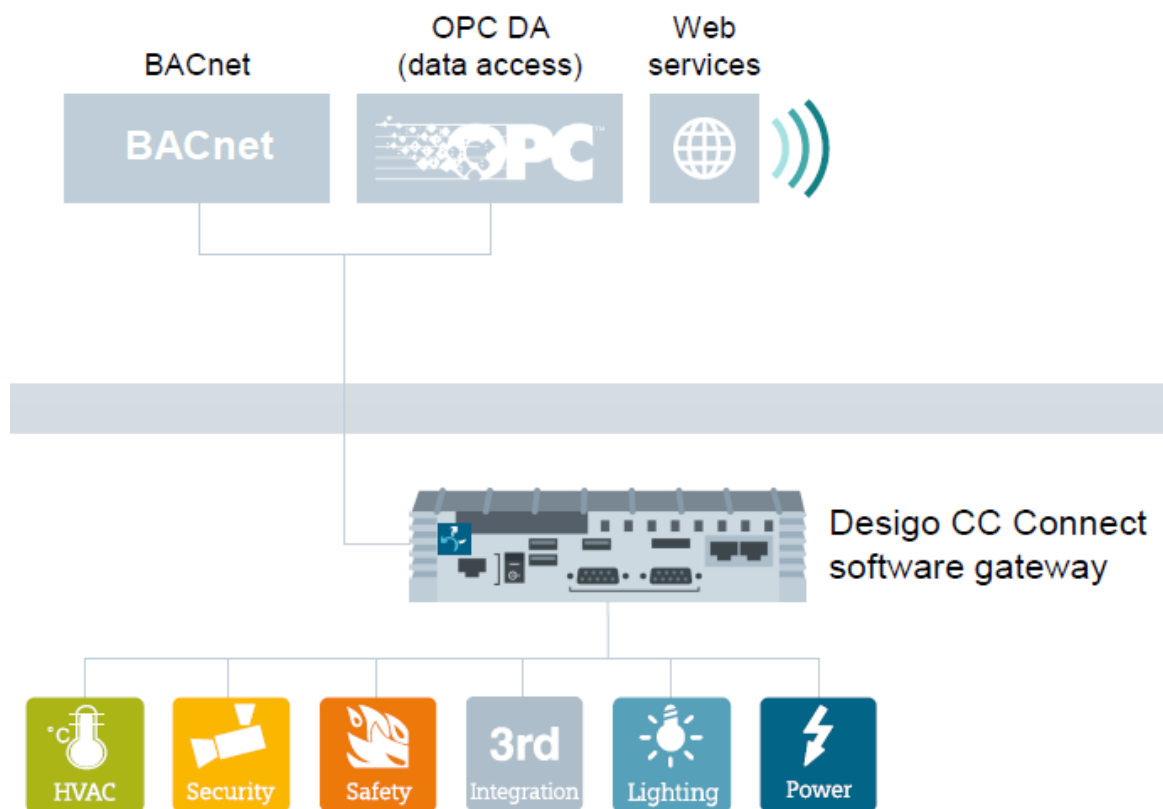
1. Cerberus DMS
2. Designo CC Compact
 - for danger management
3. Designo CC Compact
 - for building automation



4. Designo CC Compact
 - for electrical applications
5. Designo CC Connect
 - for integration to 3rd party

Designo CC Connect Topology

Northbound connectivity/ Southbound connectivity



Designo CC Connect

- Supports all subsystems supported by Designo CC powerful engine
- Designo CC Connect can be deployed in Embedded Hardware
- Supports all south south-and northbound interfaces & APIs
- Supports system interactions, logics and scripting
- Supports trend data collection and time functions
- No clients are provided (flex, mobile, e.t.c)
- No remote notifications are provided (SMS, e-e-mails, etc.)

Desigo CC main features

- Support of latest IT standards
- Password protection
- Ethernet driver support for a variety of protocols/disciplines
- Data collection
- Calculations and reactions
- Backup functionality
- Time functions
- Exposing of data via northbound Interface(s)
- Deployable on standard or embedded hardware
- Expandable

Licensing Model

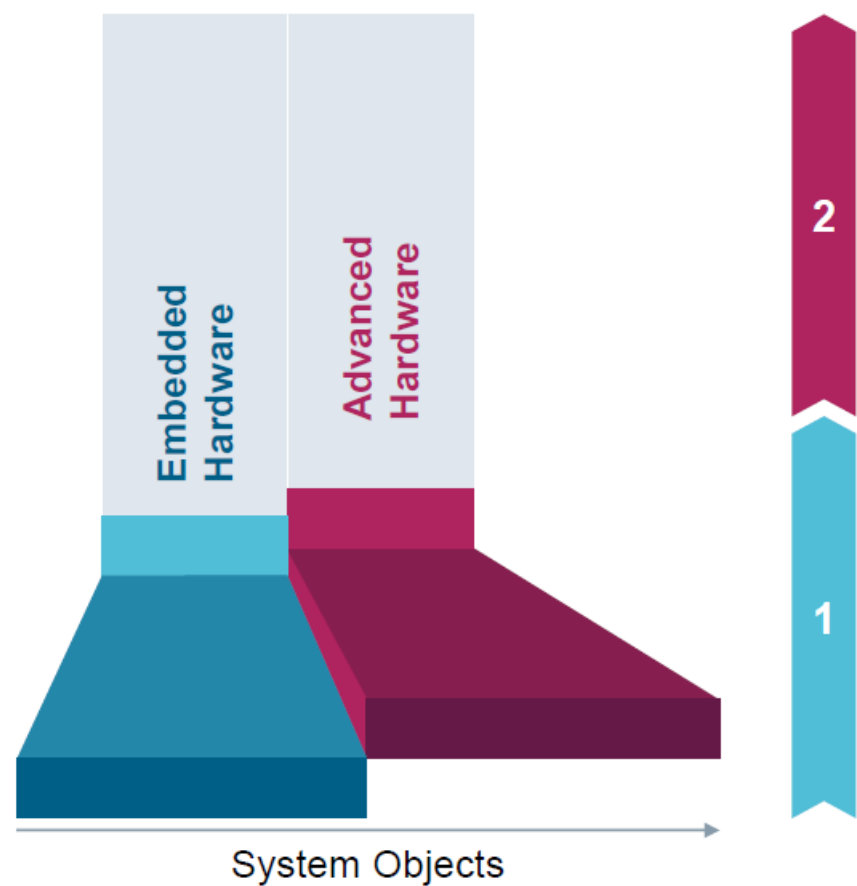
Dedicated SSNs provide the most competitive price



1. Can be purchased multiple times in the same customer project to add additional 1,000 points

- Included 1000 points for any discipline (TBS Points)
- Logics and functions
- All southbound and northbound interfaces
- All available subsystem integrations

Designo CC Connect hardware 1configuration



1. Hardware is not included

Demanding configurations

Hardware Type	Client	Small or Medium-Sized Server / FEP	Large-Sized Server
Category Name	Not Applicable	MS	LS
Limit System Objects	Not Applicable	≤50K	>60K & ≤150K
Processor	Not Applicable	Core i7 or equivalent ≥ 3.2GHz 4 cores per running system	
RAM	Not Applicable	16GB	32GB
Hard disk	Not Applicable	1 x 1024GB SSD ¹	
Network card	Gigabit speed		

Majority of applications are covered with embedded hardware

Hardware Type	Embedded PC
Category Name	EP
Limit System Objects	10,000
Processor	Celeron N2930 or equivalent ≥ 1.83GHz 4 cores
RAM	8GB
Hard disk	1 x 64GB SSD
Network card	Gigabit speed

Application Examples

Simatic



- IPC227E

Dell



- BOX PC 3000

Advantech



- ARK-1123H1123H-3S51

Highlights of Desigo CC Connect



- Connect and analyze building data



- Connect to 3rd party applications



- Migration and replacement

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[siemens.com/designcc](https://www.siemens.com/designcc)



firealarmresources.com

Documents / Resources



SIEMENS Designo CC V4 Connect Software Gateway [pdf] Instruction Manual
Designo CC V4, Designo CC V4 Connect Software Gateway, Connect Software Gateway, Software Gateway, Gateway

References

-  [Fire Alarm Resources | Download fire alarm documents](#)
-  [Designo CC - Building management systems - Global](#)