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Desigo CC Connect –

Software gateway to elevate your data from field to top

siemens.com/desigocc

Desigo 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

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Explaining Desigo CC Connect

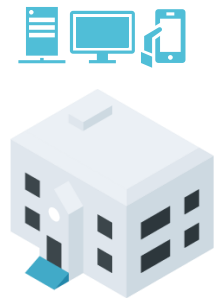
Why Desigo CC Connect

Use cases

Positioning under Desigo CC Family

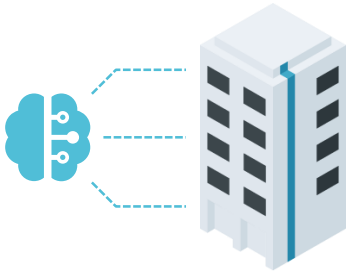
Licensing

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

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Desigo CC Connect

Connectivity

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

Data Analysis

Data collection, scripting, logics, macros, calculations

Why Desigo CC Connect?

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1 Multi-protocol processor and data processing

2 Data Interactions among disciplines and logical operations

3 Gateway to Connect to 3rd party Manage-ment station

4 Gateway to Connect to 3rd party applications

5 Efficient migrations of legacy gateways

Use Case 1 – Calculation and data analysis

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

Facility expert

Modbus
Temperature sensors from system X

BACnet
Temperature sensors from system Y

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.

Use Case 2 – Desigo CC Connect for logical operations and data collection

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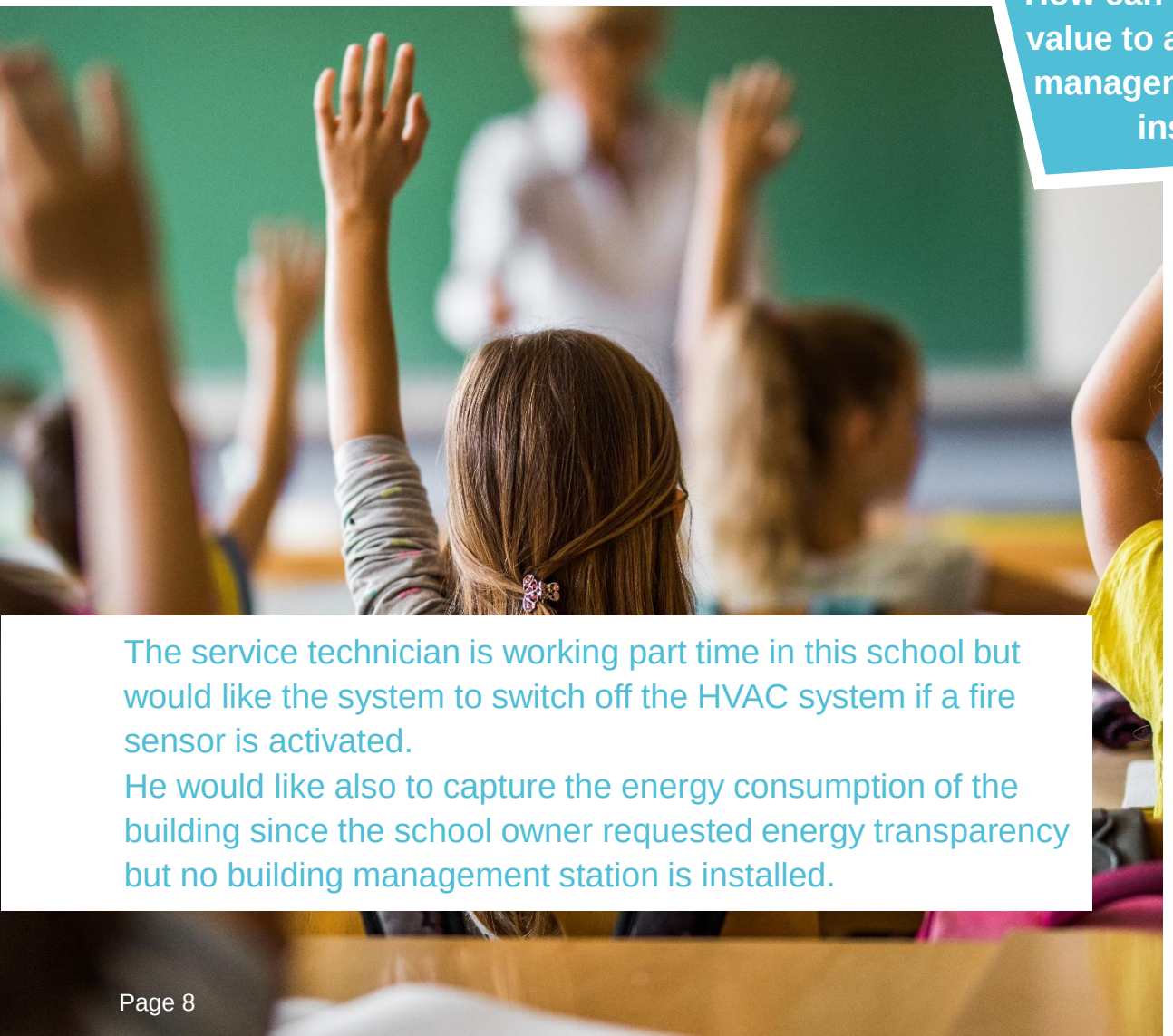
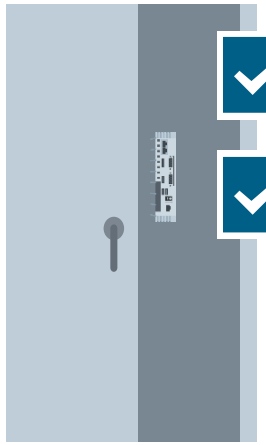


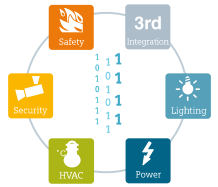
How can I deliver added value to a site where no management station is installed?

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.

Service technician



- Interactions between different disciplines, protocols and systems
- Data collection of key figures



Use Case 3 – Desigo CC Connect for 3rd party applications

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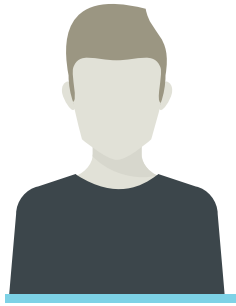
In a HQ of a multinational IT company various subsystems including building automation, fire safety and power, are installed. The monitoring system which is a 3rd party management station is specified with OPC connectivity for the field devices. Unfortunately, not all of the field networks and systems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

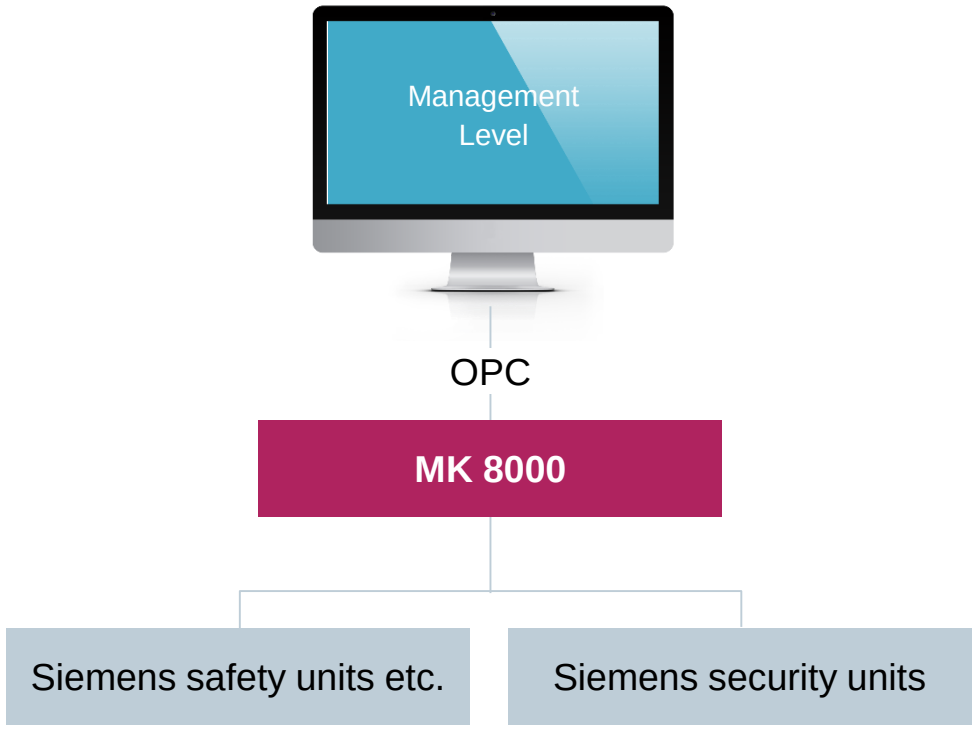
How can I normalize building data according to a given specification?



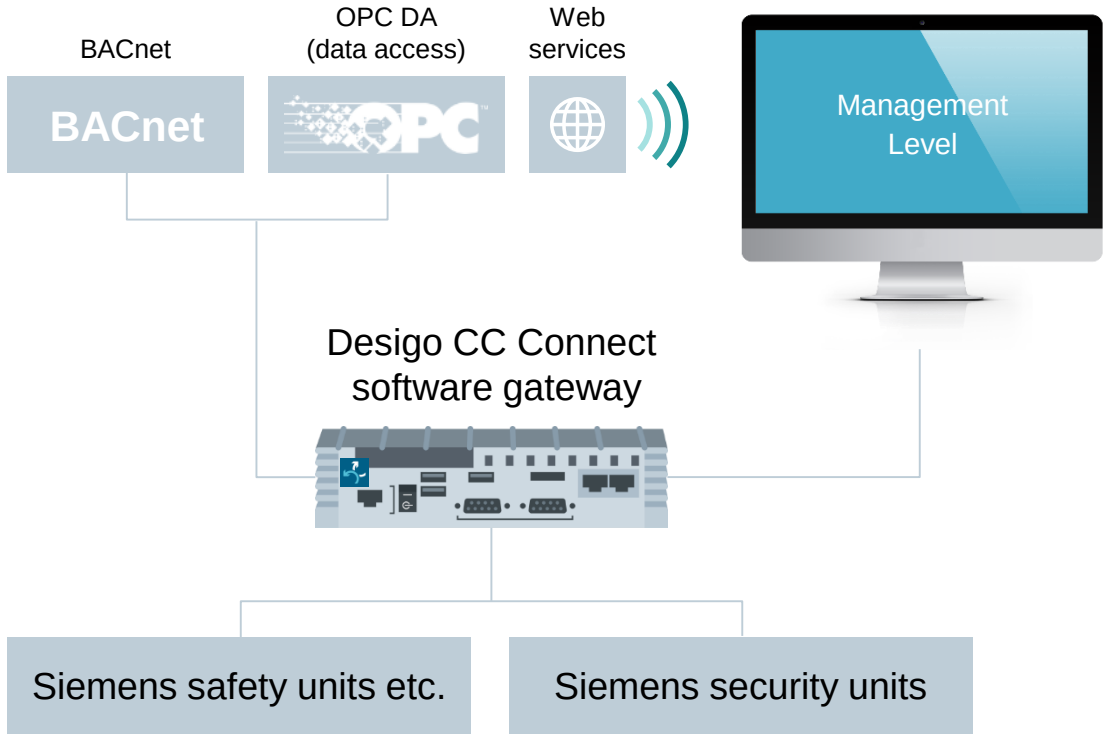
System Integrator

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

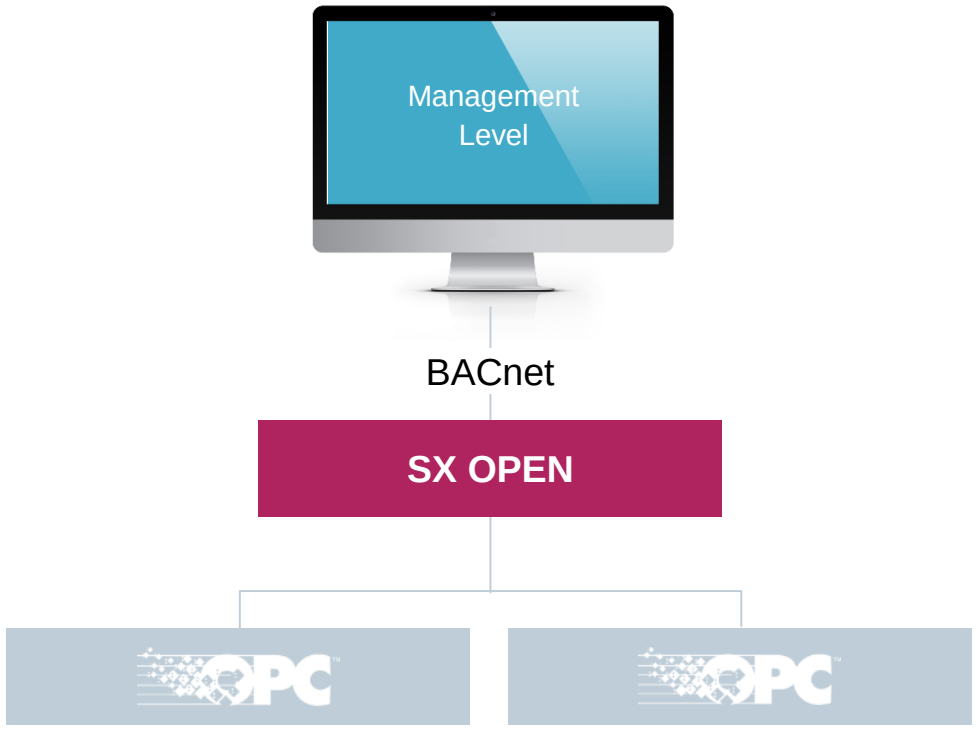
Use Case 4 – Desigo CC Connect as a replacement product for MK 8000



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



Use Case 5 – Desigo CC Connect as a replacement product for SX OPEN



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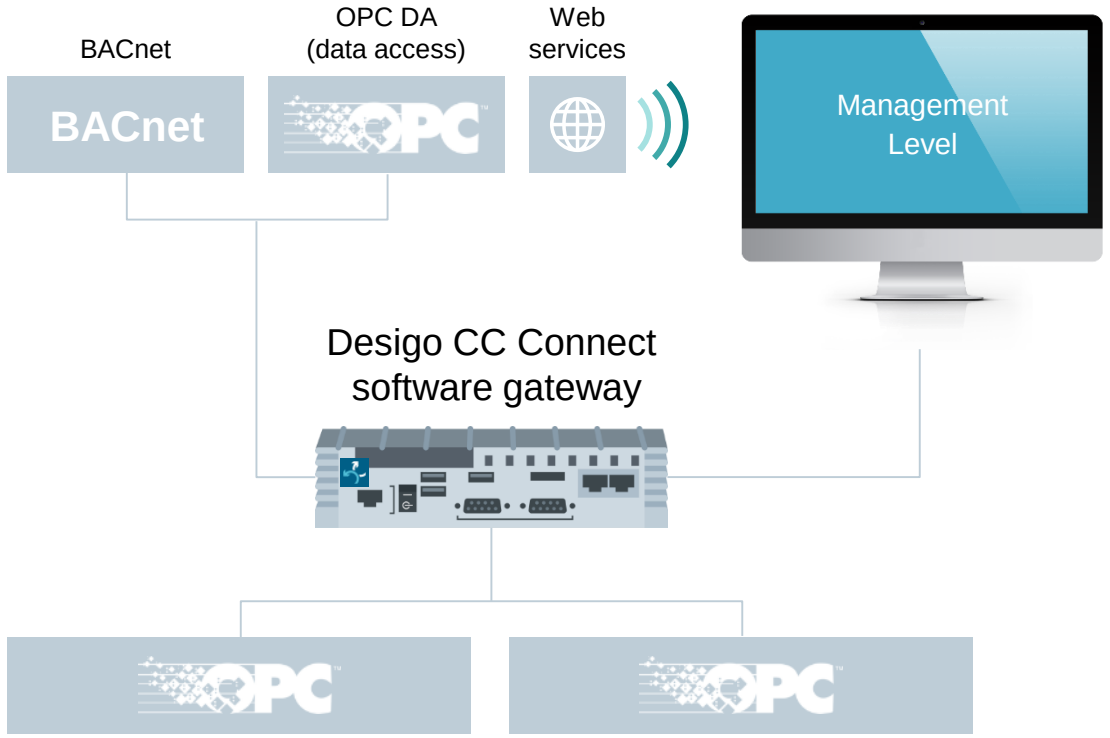

Desigo CC family

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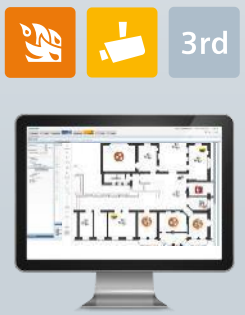
Desigo CC

Integrated building management

Lighting
HVAC
Power
Safety
Security
3rd Party Integration



Cerberus DMS

Desigo CC Compact
for danger management

Desigo CC Compact
for building automation

Desigo CC Compact
for electrical applications

Desigo CC Connect
for integration to 3rd party

Desigo CC Connect Topology

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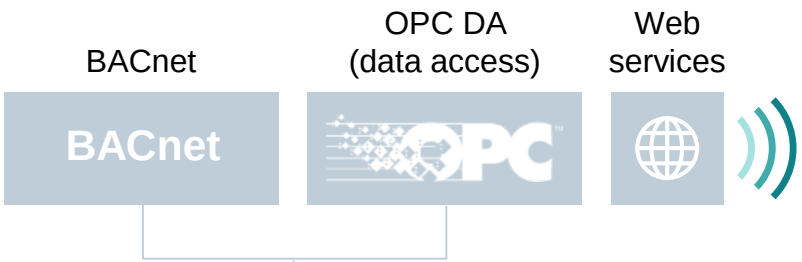
Northbound connectivity



Southbound connectivity

Desigo CC Connect software gateway

Desigo CC Connect

- Supports all subsystems supported by Desigo CC powerful engine
- Desigo CC Connect can be deployed in Embedded Hardware
- Supports all south- and northbound interfaces & APIs
- Supports system interactions, logics and scripting
- Supports trend data collection and time functions

- No clients are provided (flex, mobile, etc.)
- No remote notifications are provided (SMS, e-mails, etc.)

Desigo CC main features

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- 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

Included 1000 points for any discipline (TBS Points)

Logics and functions

All southbound and northbound interfaces

All available subsystem integrations

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

Desigo CC Connect hardware[1] configuration

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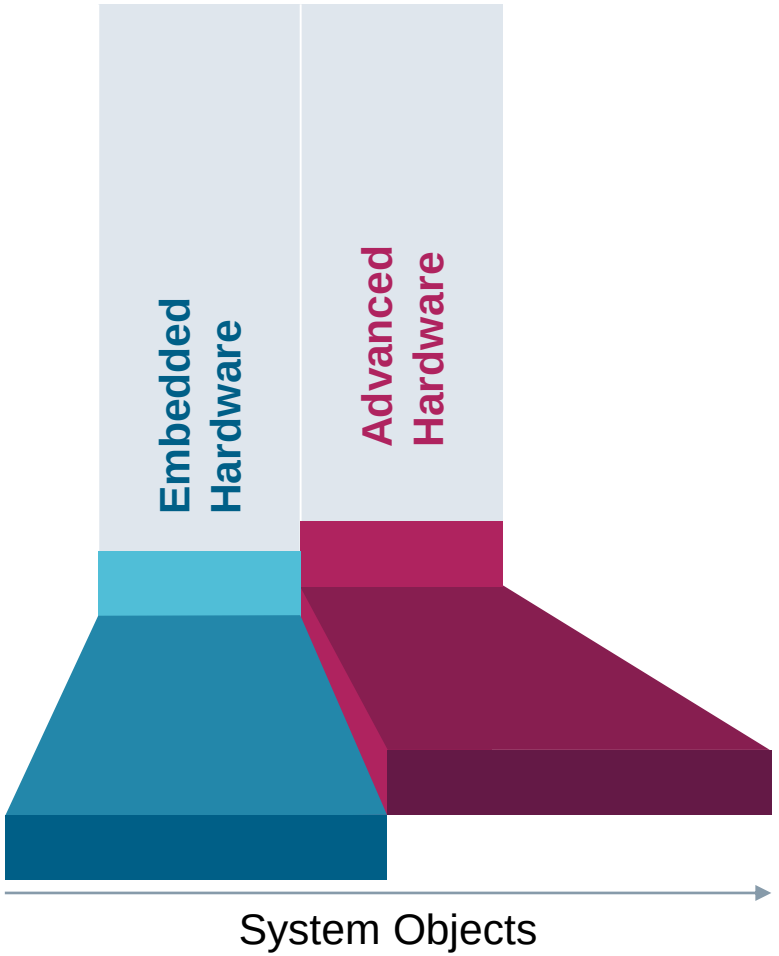


2

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	>50K & ≤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		

1

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

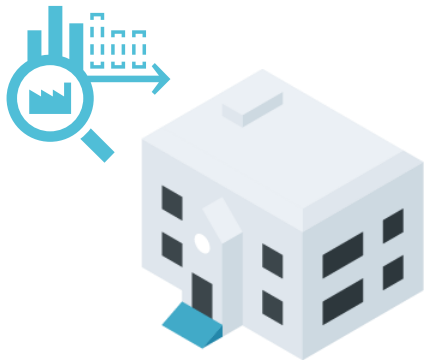
Simatic
IPC227E

Dell
BOX PC 3000

Advantech
ARK-1123H-3S51

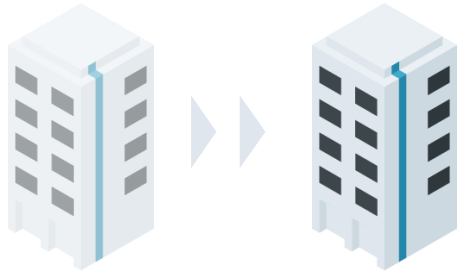
1 Hardware is not included

Highlights of Desigo CC Connect



Connect and analyze building data

Connect to 3rd party applications



Migration and replacement

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Use data that really matter

Desigo CC Connect