Desigo CC Connect –
Software gateway to elevate your data from field to top
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

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

Desigo CC Connect

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

Data Analysis
Data collection, scripting, logics, macros, calculations
Why Desigo CC Connect?

1. Multi-protocol processor and data processing
2. Data Interactions among disciplines and logical operations
3. Gateway to Connect to 3rd party Management station
4. Gateway to Connect to 3rd party applications
5. Efficient migrations of legacy gateways
Use Case 1 – Calculation 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

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

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

Service technician

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.

Interactions between different disciplines, protocols and systems

Data collection of key figures
Use Case 3 – Desigo CC Connect for 3rd party applications

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

System Integrator

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

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.
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

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

Desigo CC
Integrated building management

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

Northbound connectivity

BACnet

OPC DA (data access)

Web services

Southbound connectivity

Desigo CC Connect software gateway

HVAC
Security
Safety
3rd Integration
Lighting
Power
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

- 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

1. Hardware is not included

**Demanding configurations**

<table>
<thead>
<tr>
<th>Hardware Type</th>
<th>Embedded PC</th>
<th>Small or Medium-Sized Server</th>
<th>Large-Sized Server</th>
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<td>Network card</td>
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<td>Gigabit speed</td>
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</tbody>
</table>

**Application Examples**

- **Simatic**
  - IPC227E

- **Dell**
  - BOX PC 3000

- **Advantech**
  - ARK-1123H-3S51
Highlights of Desigo CC Connect

Connect and analyze building data

Connect to 3rd party applications

Migration and replacement
Use data that really matter
Desigo CC Connect