

KNX

BACnet

MQTT

Modbus

Helvar

OPC  
(DA/UA)

SNMP

Fidelio/Opera | Protel | Infor  
RMS Cloud | CharPMS  
VingCard Web | Kaba | Salto

DALI EnOcean  
M-Bus DMX

Proprietary solutions

# All-in-one

**Building management software for  
medium-sized and enterprise building  
automation projects**



**NETx Shutter Control**  
Automatic Shading Control

Often the control mechanisms of available blind actuators are not sufficient

- Actuators provide a certain (limited) basic functionality
- An extension is not possible without further measures

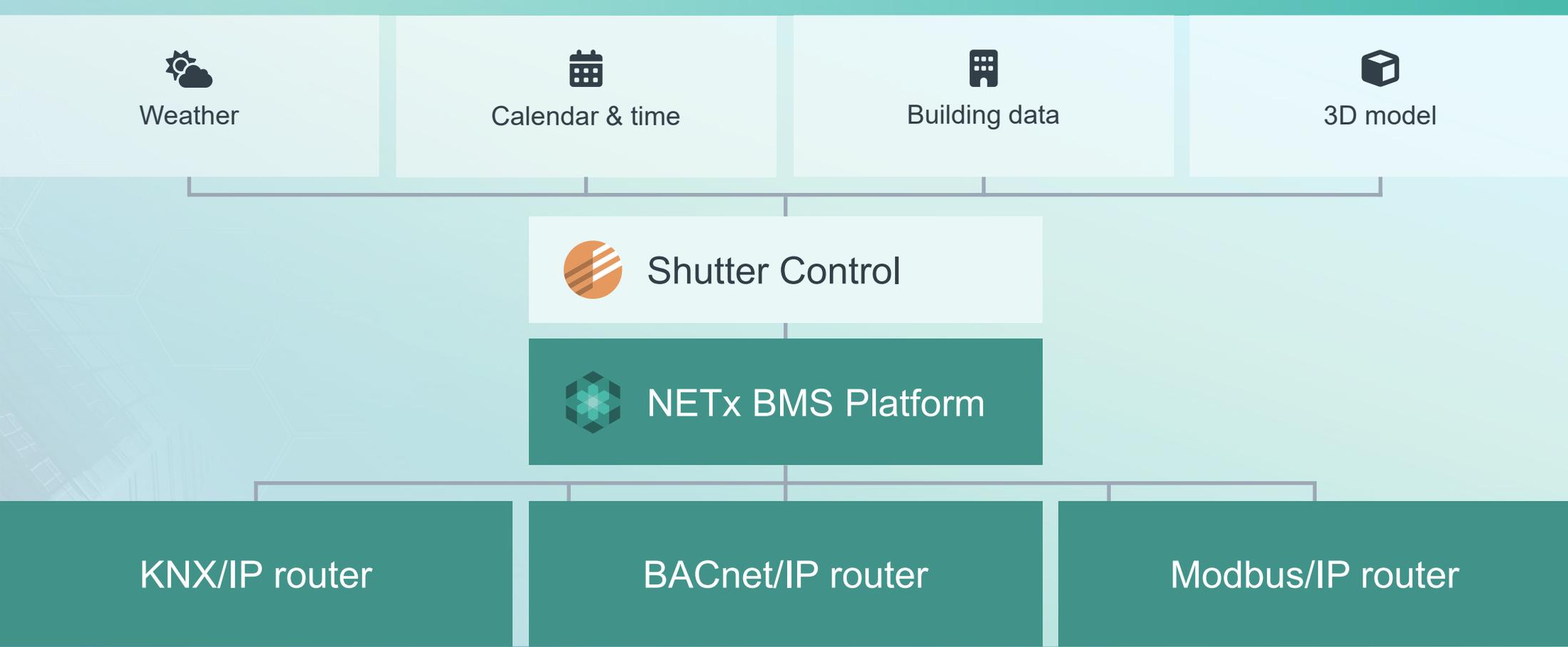
NETx Shutter Control is a software solution, which provides advanced and sophisticated control functionality for shading of complex buildings

- Determination of control commands based on weather, time and building information
- As a software solution the functionality can be extended

NETx Shutter Control is a project specific solution

- The system is tailored to the individual customer requirements and the characteristics of the building

# System structure



		
3D design based on construction plans	Considering the current weather situation by using weather stations	Shading groups: blinds can be controlled individually or per group
		
Slat adjustment according to the elevation and azimuth angle of the sun	Dynamic calculation of the brightness threshold	Automatic control
		
Manual override via management interface	Wind alarms, safety mechanism and maintenance mode are considered	Alarm handling and "History Logging"

Graphical interface  
customized for each project

Current status of shutters  
and slats of all groups

Overview of current  
weather data

View of all control commands of the system

Override through technicians possible  
(also considering safety mechanisms)

High saving potential for heating and air-conditioning

No heating up

Harmonious facade

Constant light in the building

Central, comfortable control of thousands of blinds

Overview of the whole project and project status

The screenshot shows the 'Konfiguration' (Configuration) page of the NETX Shutter Control GUI. The interface is divided into several sections:

- Navigation:** A vertical sidebar on the left contains icons for home, workspace, settings, and a gear icon.
- Section Header:** 'Konfiguration' is displayed in an orange header bar.
- BMS Section:** A sub-header 'BMS' is followed by a 'Workspace' field containing the path 'C:\Program Files (x86)\NETxAutomation\NETx.BMS.Server.2.0\Workspaces\De'. To the right are two buttons: 'BMS Konfiguration generieren' and 'Gruppeneinstellungen neu laden'.
- Table:** A table with two columns: 'Lamellenwinkel (Grad)' and 'Lamellenwinkel (Prozent)'. The data is as follows:

Lamellenwinkel (Grad)	Lamellenwinkel (Prozent)
0	0
5	11
10	22
15	33
25	55
35	77
45	100
- Delays:** Two input fields for 'Verzögerung (Totzeit) runter (in Sekunden)' and 'Verzögerung (Totzeit) rauf (in Sekunden)', both set to '60'.
- Dynamic Light Thresholds:** A checked checkbox 'Dynamische Helligkeitsschwellwerte' is followed by a 'Hysterese (in %)' field set to '10'. Below this is a 'Schwellwert (Lux) für Monat' dropdown menu set to 'Jänner' and a 'Bearbeiten' button.
- Table:** A table with three columns: 'Tendenz', 'Winkel', and 'Helligkeit'.
- Status Bar:** A bottom bar shows system status: 'Server stoppen' (with a stop icon), 'Shutter Server' (with a checkmark), 'BMS Server' (with a checkmark), 'Datenbank' (with a checkmark), and 'Helligkeit' (with a checkmark).

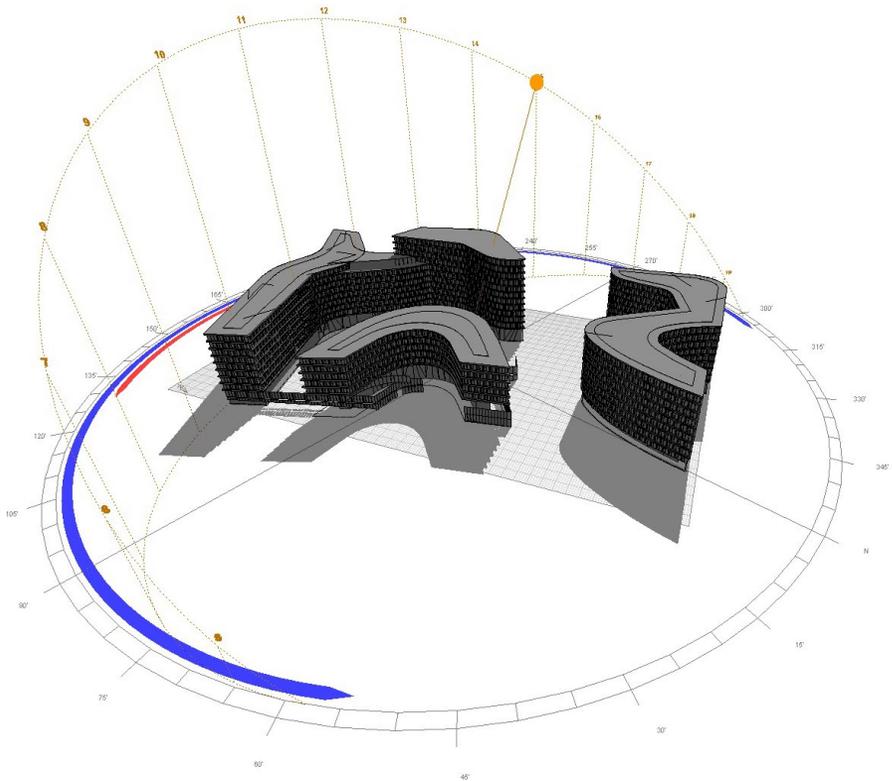
Projekt Gruppen

- ▼ Gebäudekomplex
  - ▼ Haus C
    - ▼ Stock 0
      - ^ Gruppe 00-A1-1
      - ^ Gruppe 00-A2-1
      - ^ Gruppe 00-A2-2
      - ^ Gruppe 00-A2-4
      - ^ Gruppe 00-A3-4
      - ^ Gruppe 00-A3-5
      - ^ Gruppe 00-A4-4
      - ^ Gruppe 00-A4-5
    - ▼ Haus G

Name	Status	Jalousieposition	Lamellenposition
Gruppe 00-A1-1	Sonne: Helligkeit überschritten	Unten	3
Gruppe 00-A2-1	Sonne: Helligkeit überschritten	Unten	3
Gruppe 00-A2-2	Sonne: Helligkeit überschritten	Unten	3
Gruppe 00-A2-4	Sonne: Helligkeit überschritten	Unten	3
Gruppe 00-A3-4	Schatten: Bewölkt	Oben	0
Gruppe 00-A3-5	Schatten: Bewölkt	Oben	0
Gruppe 00-A4-4	Schatten: Fremd-/Eigenschatten	Oben	0
Gruppe 00-A4-5	Schatten: Fremd-/Eigenschatten	Oben	0

Seite 1 von 1 1 - 8 von 8 Einträgen

Server stoppen ✓ Shutter Server ✓ BMS Server ✓ Datenbank ✓ Helligkeit ✓ Diffus ✓ Strahlung

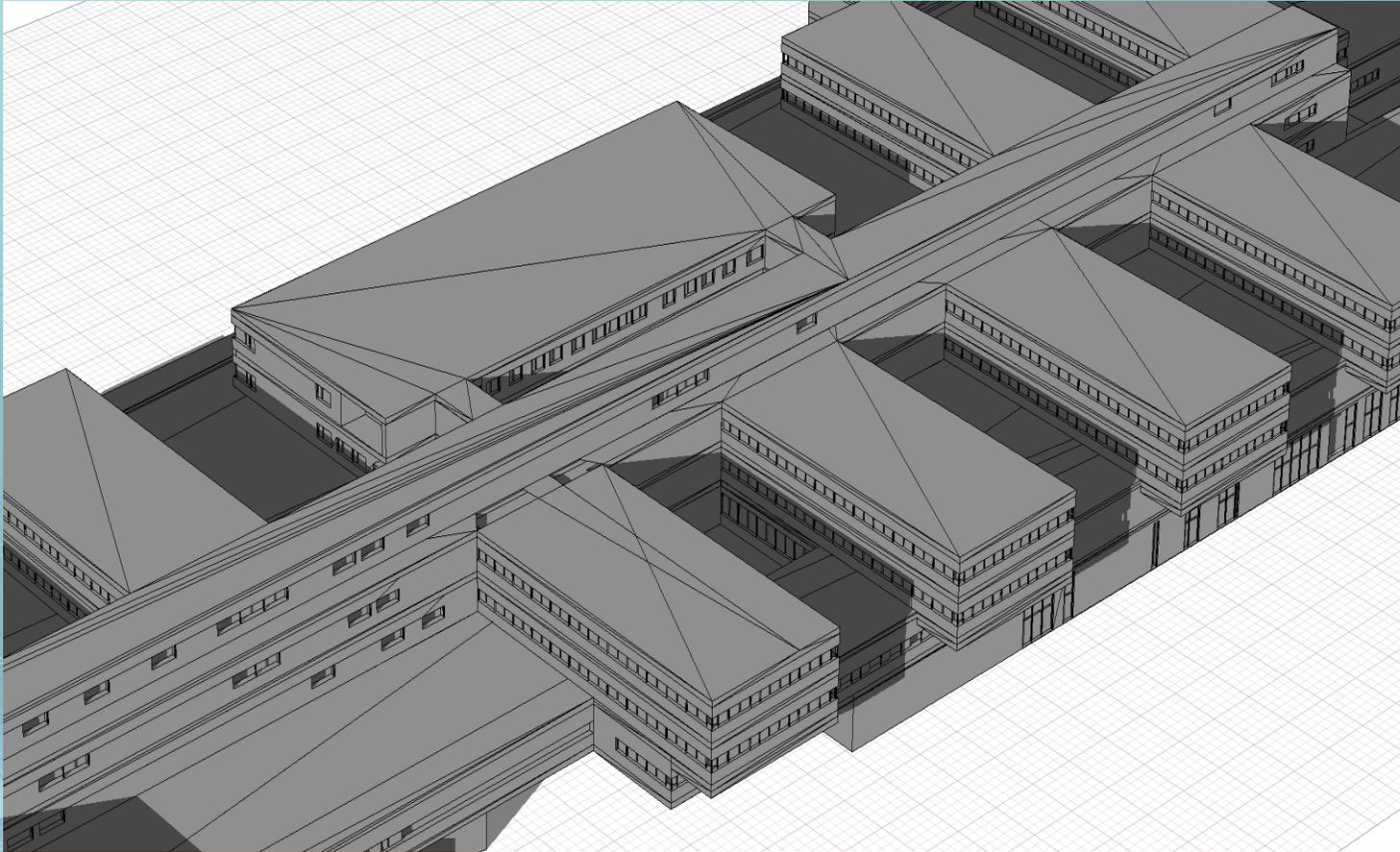


Data points

9,600  
Modbus data points

Blinds

4,800

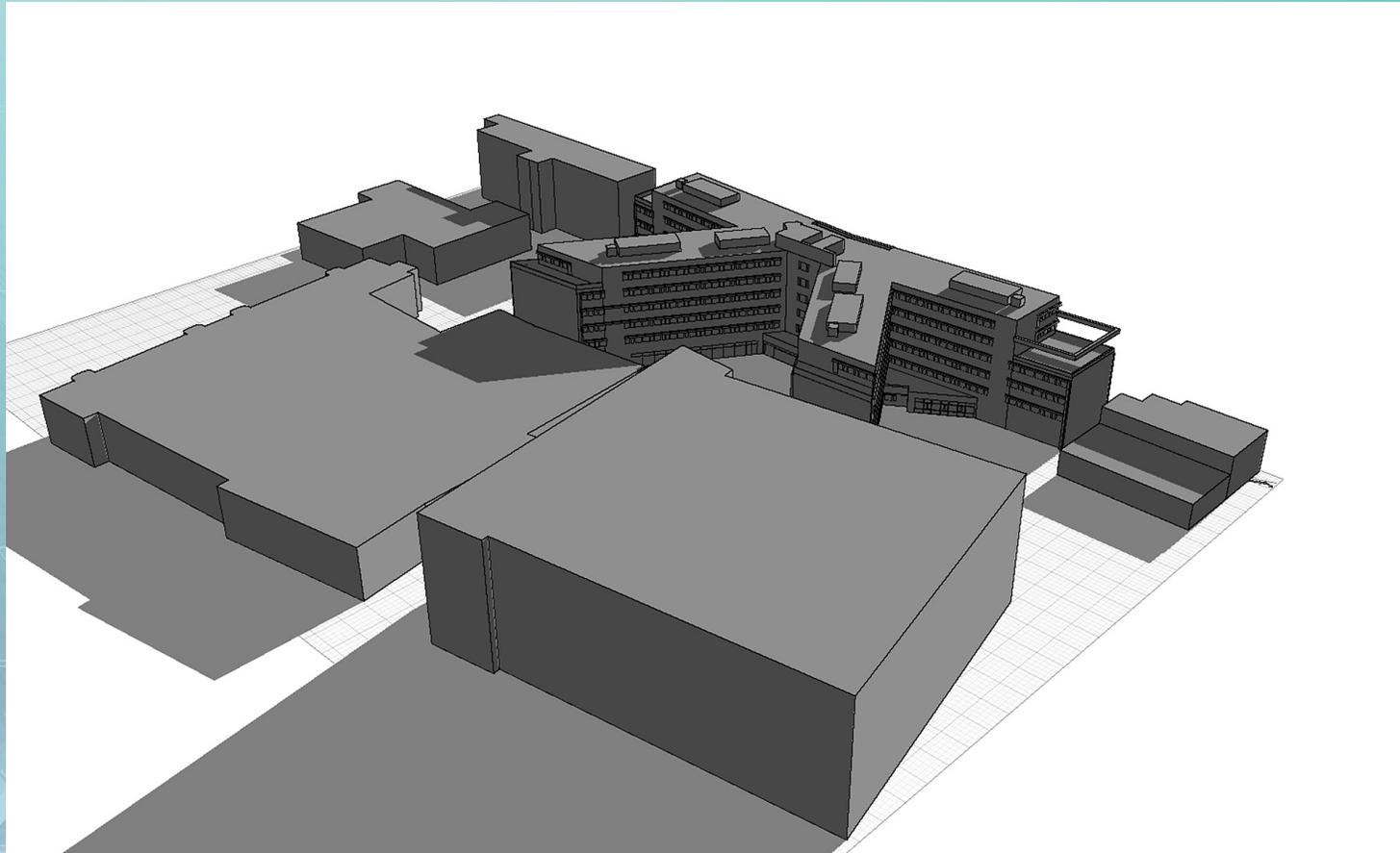


Data points

11,500  
KNX group addresses

Blinds

1,380



Data points

7,000  
KNX group addresses

Blinds

500

# Sky Office Tower



Data points

25,000  
KNX group addresses

Blinds

3,200



Data points

135,000  
KNX group addresses

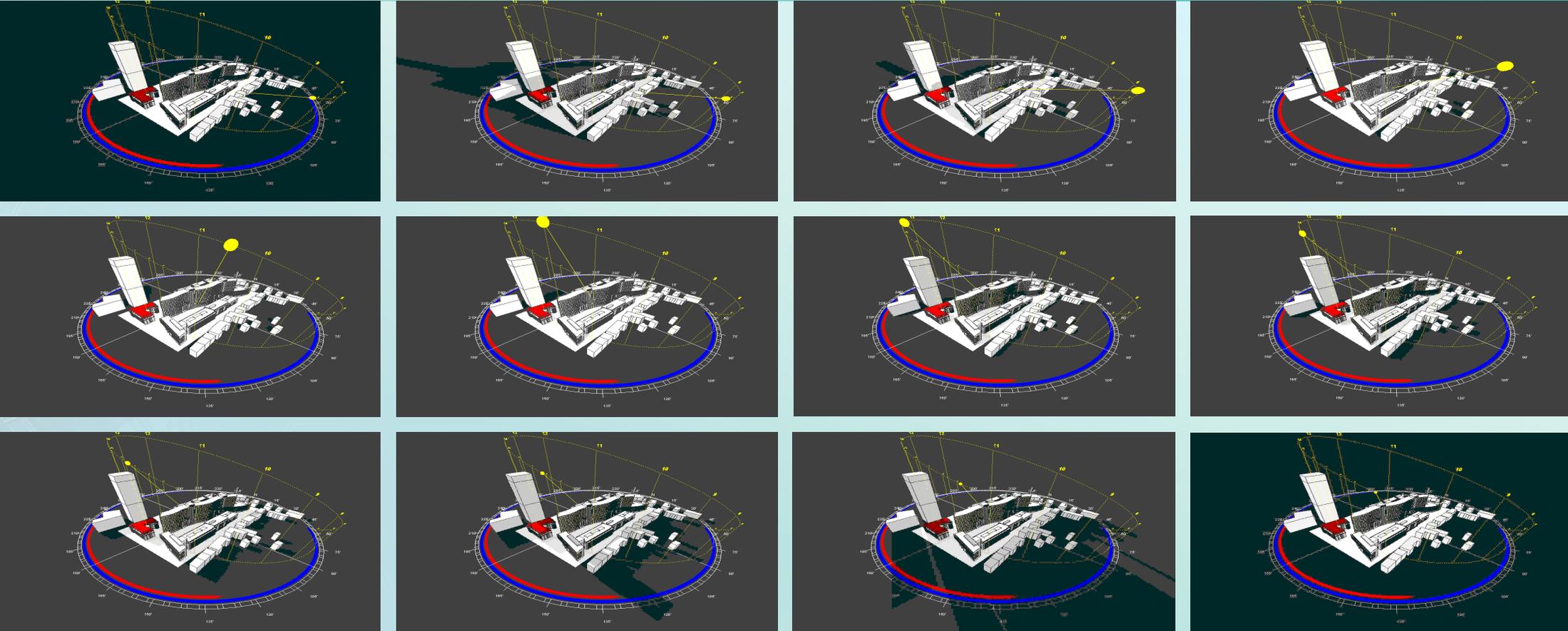
Blinds

4,800

Gateways: 7 x 20

Realization: cluster solution

# Frankfurter Welle - 3D simulation



[www.netxautomation.com](http://www.netxautomation.com)