

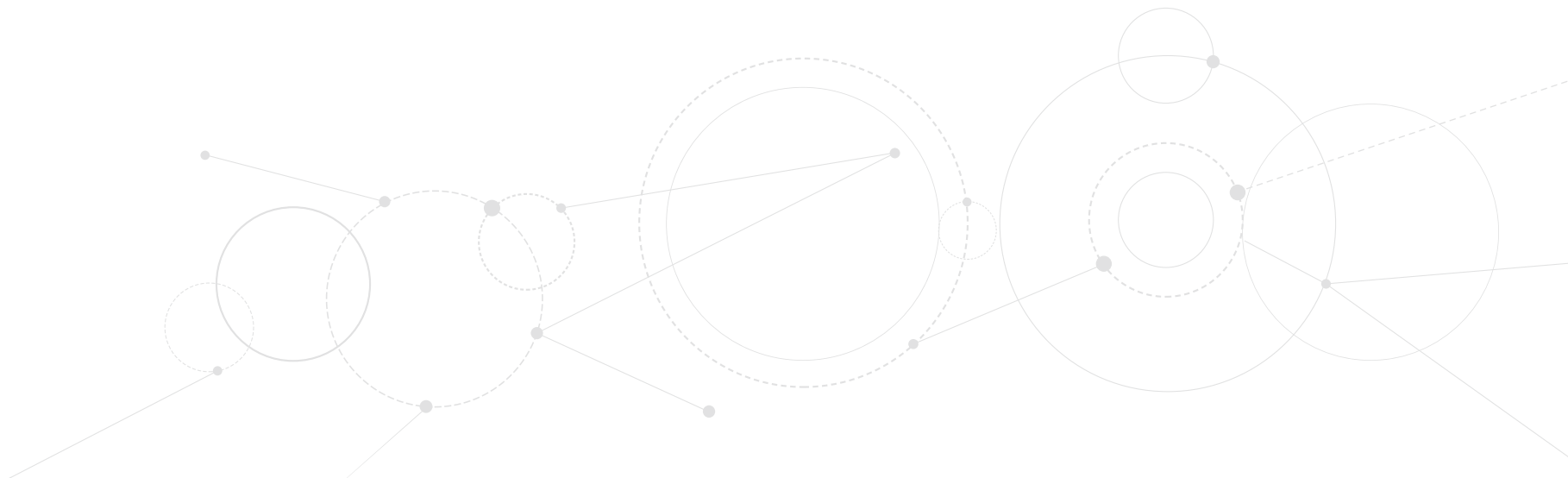


ComBridge Studio
— EVOLUTION —

The KNX visualization software

Visualization software pre-installed in an industrial embedded Linux PC. Available in different hardware versions to match the requirements of any type of installation: from small homes to offices, hotels, airports, hospitals, etc. Also available as virtual machine image.

One of the few SCADA-like, management and visualization systems with KNX core. To be used as a BMS (Building Management System) as well. Web editors integrated in the hardware (Adobe Flash Player required). Fully customizable user interface: background, icons, text, colours, charts, frames, resolution, etc.



Discover its full Potential

- › CBSE visualization
- › communication field buses
- › Modules included in all versions
- › Additional modules and licenses





ComBridge Studio — EVOLUTION —

DALI e64 MANAGEMENT

Topology: /Floor_8_9/L8-DALI-A

Overview:
Normal Lights: 0 Failed ECG Counts: 0 Failed ECGs Rate: 0 %
Emergency Lights: 0 Alarm: ●

Status	Device	Name	Index	ECGs	Converters	Failed ECGs	Failed Lamp	Failed Com	Value(%)
●	L8-D801-DA		1	7	0	0	0	0	0

Smart Metering

Number of meters: 3

DAY: 05/11/2015

Gas: 2.116

Energy: 6.706

Water: 35.156

37.316

Legend: Energy (Green), Gas (Orange), Water (Blue)

SmartMeteringConfig.cdi - Home

12: BUILDING (3)

- ENERGY
- GAS
- WATER

CBSE Visualization

Web visualization optimized for different devices:

- › PCs or touch screens: Advanced visualization. Adobe Flash Player required.
- › Tablets for mobile devices: HTML visualization and Smartvisu. Based on HTML5 and JQuery Mobile.

Advanced visualization

- › Browsing based on menus, desktops, windows, pages and gadgets
- › Charts.
- › Alarms.
- › IP Cameras.
- › Scenes.

Annual and weekly time scheduler

- › Basic SmartMetering included.
- › Supports visualization of Dali e64 Management Tool2
- › ...

SmartVisu Visualization

- › Easy and fast edition.
- › HTML5 + JQuery.
- › Adaptable to all screens resolutions.
- › Charts.
- › Alarms.
- › IP Cameras.
- › ...

HTML visualization

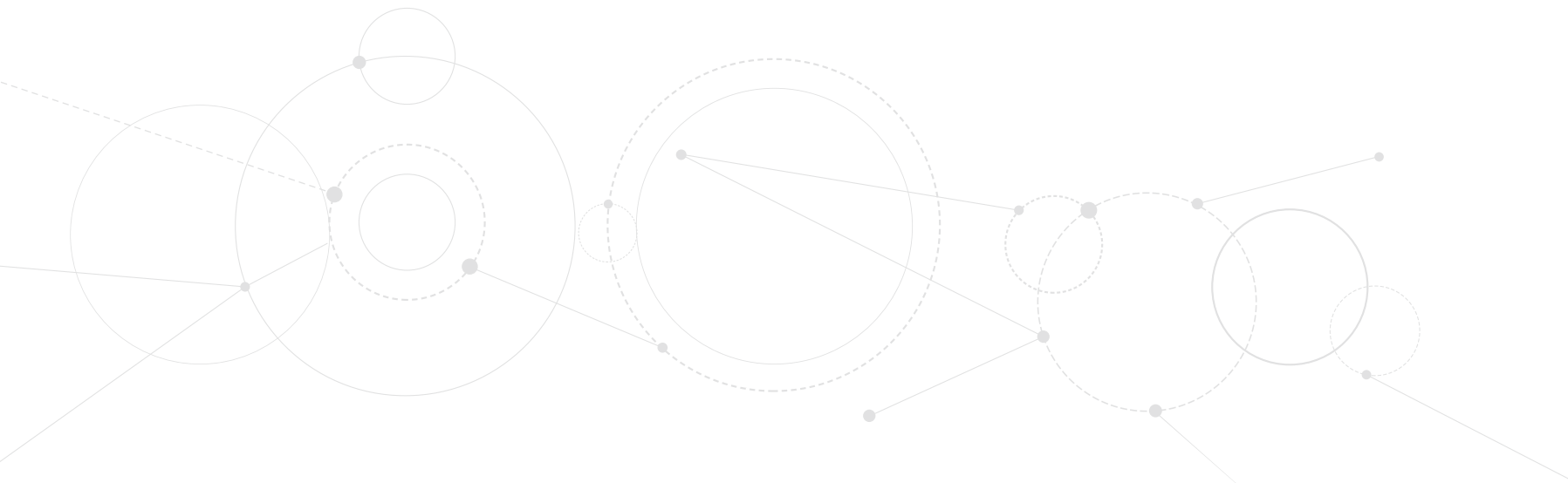
- › Export of the same1 advanced visualization pages to HTML for Smartphones and Tablets.
- › Charts.
- › Alarms.
- › IP Cameras.

Communication field buses

CBSE uses process points as the intermediate layer for all its communication. These process points can link data points from different field buses (BACnet, Modbus, etc.), KNX being the main one.

Thanks to this feature, it includes:

- > Status logic.
- > Logic when sending, receiving.
- > Format.
- > Unit conversion.
- > Data logger:
 - > Via hysteresis, on value change, with time...
 - > Interpolation, average calculation, increments, maximum and minimum values, run-hour counter, ...
- > Polling and/or read request after sending.
- > Force read request to the bus.
- > ...



Modules included in all versions

- > All **three types** of visualization
- > **Basic SmartMetering** 3 counters and a simple but comprehensive presentation of the historical consumption data.
- > **Logic Module**. Advanced and intuitive graphic editor, including logic gates, time switches, arithmetic operations, comparators, etc.

- > **Basic management of users and user rights:**
 - > Unlimited number of users.
 - > User groups.
 - > User rights as per each visualization element.
 - > Visibility of the process points in the modules.
 - > Category filtering to be shown in the modules.
 - > ...

- > **Multi-connection possibilities**. You can connect to different, remote and independent projects from the same visualization with KNXnet/IP gateways, via Tunnelling or a Object Server connection.
- > **Unlimited** 3 number of group addresses or process points, which can be used also without limits in each module.
- > **Weekly time schedules**.
- > **Annual time schedules:**
 - > Time periods, tasks, events.
 - > Exclusion periods.
 - > Multiple types of repetitions.
 - > ...

- > **Scenes**. Delays between actions can be introduced.
- > **Alarms:**
 - > Alarm notification in the visualization
 - > Maintenance mode for alarms.
 - > Sending of alarms via e-mail.
 - > Sending of alarms via SMS by using remote voice over IP servers.
 - > Reception of push messages via third-party software.
 - > Control of the alarms by process points.
 - > Any given value from an existing process point can be sent within the message.
 - > ...

- > **Ping control**. Verification of the IP connection via pings and displaying the ping status response via virtual data points.
- > **Non-standard KNX data points** (NonEis) It supports the conversion of non-standard data points into one or more KNX data points.
- > **Diagnostics panel**. Log and license control.
- > TeamViewer **support** (pre-installed)
- > **License for 3** concurrent users included.
- > **License to connect to 1** KNXNet/IP gateway included.
- > **License for 1** SmartVisu visualization included.
- > **12V DC** power supply required (PSU included).

Additional modules and licenses

- > **User rights and advanced user management:**
 - > For each group of users, you can configure the module's visibility and access rights.
 - > Possibility to distribute the concurrent user licenses into the existing user groups
- > **Advanced SmartMetering** module Consumption report in different (customizable) units; daily, weekly, monthly and annual. Easy and graphical way to analyse, examine and compare historical consumption data. Calculation, analysis and control of loads consumption. Estimated consumption forecast. Report tool: pdf exportation and printing. Additionally, a new visual element has been added: comparative graphics.
- > **Russound Module.** Audio control via Rnet protocol.
- > **Style editor.** You can change colour, font, border, format, etc. so as to completely customize the gallery of visual elements.
- > **Tool to calculate** the cost of creating the CBSE project, including generating the reports thereof (for billing purposes).
- > **CSV Export Tool.** Automatic exportation and management of data bases.
 - > Programmed exportation of the data in csv format (Excel compatible) or into an external database, such as Postgresql, Mysql or MS Sql Server.
 - > ODBC access to different data base views.
- > **DALI e64 Management Tool.**
 - > Automatic configuration via communication with the configured DALI e64 gateways:
 - > Analysis and status of the events.
 - > Run hours.
 - > Lamp-, ballasts-, power supply errors,...
 - > Emergency lighting.
 - > Test reports.
- > **SQL requests**
 - > Results are sent to virtual data points; therefore, they can be used in any module or visual element of the visualization.
 - > Both pre-defined and customized requests.
 - > ODBC access to different data base views.
- > **Modbus IP.**
 - > Connection, data acquisition and control of modbus systems from the visualization and its modules
- > **BACNet.**
 - > Connection, data acquisition and control of bacnet systems from the visualization and its modules
- > **OPC-Server for Windows 7.**
 - > Connection to CBSE via OPC.
- > **Templates Module.** Template pages with process points.
 - > Save project configuration time in cases with many repetitive pages.

¹ Except for non-HTML-compatible elements.

² Licence required.

³ Only limited by hardware.

