

FUTURE

The future is SpaceLogic C-Bus

Lighting control and automation solutions for
buildings of the future

se.com

Life Is On

Schneider
Electric

Table of contents



Rise to the new building challenges



Buildings are undergoing unprecedented change

The way we design and operate buildings today is changing. Buildings of the future need to capture the power of the all-digital, all-electric world.

~40%

of the world's CO₂ emissions come from buildings



Sustainability challenges



>350

natural disasters in the world in 2019



Resiliency challenges



>30%

of the energy in buildings is wasted



Efficiency challenges



~90%

of our time is spent indoors



People challenges



Sources: Global Status Report for Buildings and Construction; Centre for Research on the Epidemiology of Disasters; U.S. Environmental Protection Agency; The National Human Activity Pattern (NHAPS) Survey



Overcoming challenges with IoT

Sustainable



- Maximum electrification
- Active energy management
- Positive energy buildings
- Resource-efficient design
- Sustainable retrofits

Resilient



- More remote operations
- Better power reliability
- Flexible buildings
- Enhanced cybersecurity
- Increased asset protection

Hyper-efficient



- Better decision making, impacting:
- People needs
 - Space resources
 - Asset efficiency
 - Energy cost

People-centric



- Safer buildings
- Healthier buildings
- Better productivity and collaboration
- Improve occupant comfort and experience



Introducing SpaceLogic C-Bus



SpaceLogic C-Bus with EcoStruxure

**Connected products and software solutions
for smart buildings**

The EcoStruxure™ Building IoT-enabled platform integrated with SpaceLogic C-Bus and connected products creates an end-to-end solution for complete integration of a building's mechanical and electrical systems.

Along with SpaceLogic C-Bus, our connected product family includes devices like sensors, valves, and controllers delivering building automation solutions in both commercial and residential buildings.



SpaceLogic C-Bus with EcoStruxure (cont'd.)

Connected products and software solutions for smart buildings

EcoStruxure™ Building



SpaceLogic C-Bus combined with EcoStruxure Building offers:

- Full IoT connectivity that is easy to scale
- Real-time monitoring and remote management
- Faster issue detection and resolution
- Simpler product engineering and installation
- Greater productivity and comfort for occupants



SpaceLogic C-Bus, enabling buildings of the future



Sustainable:

- Energy reporting and management
- HVAC control
- Light level maintenance
- Daylight harvesting
- Occupancy and vacancy detection
- Sun shading and window protection with automated blind and shutter control



Resilient:

- Emergency lighting testing, reporting, and management
- IP/Ethernet access to C-Bus and DALI as a single solution
- Robust load management with high power dimming
- Third-party connectivity
- Distributed intelligence network leveraging the power of IoT connectivity



Hyper-efficient:

- Tenant fit-out, delivering zone/floor control and visualization
- Faults and event reporting for C-Bus and DALI
- Trend logs



People-centric:

- Stylish wall plates and input devices
- Dynamic labelling and language selection
- Smooth and elegant dimming
- Tunable white control and dim to warm
- Human-centric lighting supporting circadian rhythm
- Time-driven scenes, events, and modes of operation



Compelling advantages for all stakeholders in the building lifecycle

Harnessing the power of SpaceLogic C-Bus

Innovative technology	Engineering efficiency
With robust and sophisticated solutions	Through design, installation, and commissioning phases

- Innovative, holistic lighting control and building automation that's part of a complete IoT ecosystem
- Improved reliability of the design with cost-effective solutions
- Increased efficiency with a fully customizable and scalable system

- IP/Ethernet access to C-Bus and DALI allows for updates on the project anytime from anywhere
- C-Bus and DALI system as a single solution
- Greater design efficiency while reducing risk and costs



Compelling advantages for all stakeholders in the building lifecycle

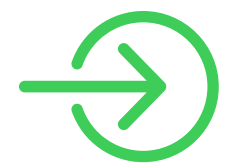
Harnessing the power of SpaceLogic C-Bus

Operational efficiency	Future-ready sustainability	Superior comfort and well-being
For simpler, more efficient operations	For improved commercial real estate performance	Thanks to improved commercial real estate performance
<ul style="list-style-type: none">• Reduced maintenance time with IP/Ethernet access to C-Bus and DALI• Real-time data and reporting• Greater performance and reliability helping ensure business continuity	<ul style="list-style-type: none">• Compliance with building codes met and exceeded with a flexible solution• Increased energy efficiency with historical data including trend logs• Improved energy management with connected products as part of a complete IoT ecosystem	<ul style="list-style-type: none">• Improved occupant productivity and well-being with enhanced lighting control• Enhanced dimming quality• Adaptive spaces for creating the right mood with tunable white control and circadian rhythm



The **SpaceLogic** C-Bus system

**Robust, flexible, scalable, and proven solutions
for buildings of the future**



Input devices

Wall plates, touch panels, sensors,
and general interfaces



Output devices

Dimmers, relays, and gateways
(DALI, DSI, DMX)



System devices

Controllers, interfaces, and bridges



Software

For commissioning and control



SpaceLogic C-Bus applications



Applications to fit most buildings and life spaces



Retail >



Hospitality >



Healthcare >



Industrial buildings >



Commercial real estate >



Infrastructure >



Educational buildings >



SpaceLogic C-Bus for retail

State-of-the-art lighting control and energy management for optimized efficiency

Complete lighting control and energy management solutions for enhanced energy efficiency and ambience for customers at fast-food chains, supermarkets, fashion, and other retail outlets.

Sustainable:

- Energy reporting and management
- HVAC control
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Tunable white control and dim to warm
- Time-driven scenes, events, and modes of operation
- Blind and shutter control

[← All applications](#)



SpaceLogic C-Bus for hospitality

State-of-the-art lighting control and energy management for enhanced guest experience

Complete lighting control and energy management solutions to set the ideal ambience for guests in luxury restaurants, bars, ballrooms, hotel lobbies, and reception areas.

Sustainable:

- Energy reporting and management
- HVAC control

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

Resilient:

- Emergency lighting testing, reporting, and management
- Third-party connectivity

People-centric:

- Smooth and elegant dimming
- Tunable white control and dim to warm
- Time-driven scenes, events, and modes of operation

[< All applications](#)



SpaceLogic C-Bus for healthcare

State-of-the-art lighting control and energy management for efficiency and patient experience

Complete lighting control and energy management solutions for enhanced patient comfort and well-being at clinics, hospitals, and other healthcare facilities.

Sustainable:

- Energy reporting and management
- HVAC control
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Smooth and elegant dimming
- Tunable white control and dim to warm
- Circadian rhythm
- Time-driven scenes, events, and modes of operation
- Blind and shutter control

[< All applications](#)



SpaceLogic C-Bus for industrial buildings

State-of-the-art lighting control and energy management for enhanced productivity and efficiency

Complete lighting control and energy management solutions for enhanced productivity and efficiency in manufacturing plants, production facilities, warehouses, car parks, and more.

Sustainable:

- Energy reporting and management
- HVAC control
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Circadian rhythm
- Time-driven scenes, events, and modes of operation
- Blind and shutter control

[< All applications](#)



SpaceLogic C-Bus for commercial real estate

State-of-the-art lighting control and energy management for enhanced occupant well-being and productivity

Complete lighting control and energy management solutions for enhanced occupant well-being and productivity in offices, business towers, co-working spaces, and more.

Sustainable:

- Energy reporting and management
- HVAC control
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management
- Third-party connectivity

Hyper-efficient:

- Small/medium-size building or single tenant, zone/floor control and visualization
- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Dynamic labelling and language selection
- Smooth and elegant dimming
- Tunable white control and dim to warm
- Circadian rhythm
- Time-driven scenes, events, and modes of operation
- Blind and shutter control

[< All applications](#)



SpaceLogic C-Bus for infrastructure

State-of-the-art lighting control and energy management for enhanced efficiency and occupant experience

Complete lighting control and energy management solutions for enhanced occupant experience in stadiums, airports, cultural centres, transport facilities, and more.

Sustainable:

- Energy reporting and management
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management
- Third-party connectivity
- High power professional and architectural dimming
- Support DMX control for advanced lighting effects and control

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Circadian rhythm
- Time-driven scenes, events, and modes of operation

[< All applications](#)



SpaceLogic C-Bus for educational buildings

State-of-the-art lighting control and energy management for enhanced occupant experience

Complete lighting control and energy management solutions for enhanced focus and well-being at universities, campuses, schools, libraries, and more.

Sustainable:

- Energy reporting and management
- HVAC control
- Daylight harvesting
- Occupancy and vacancy detection

Resilient:

- Emergency lighting testing, reporting, and management

Hyper-efficient:

- Faults and event reporting for C-Bus and DALI
- Trend logs

People-centric:

- Tunable white control and dim to warm
- Circadian rhythm
- Time-driven scenes, events, and modes of operation
- Blind and shutter control

[< All applications](#)

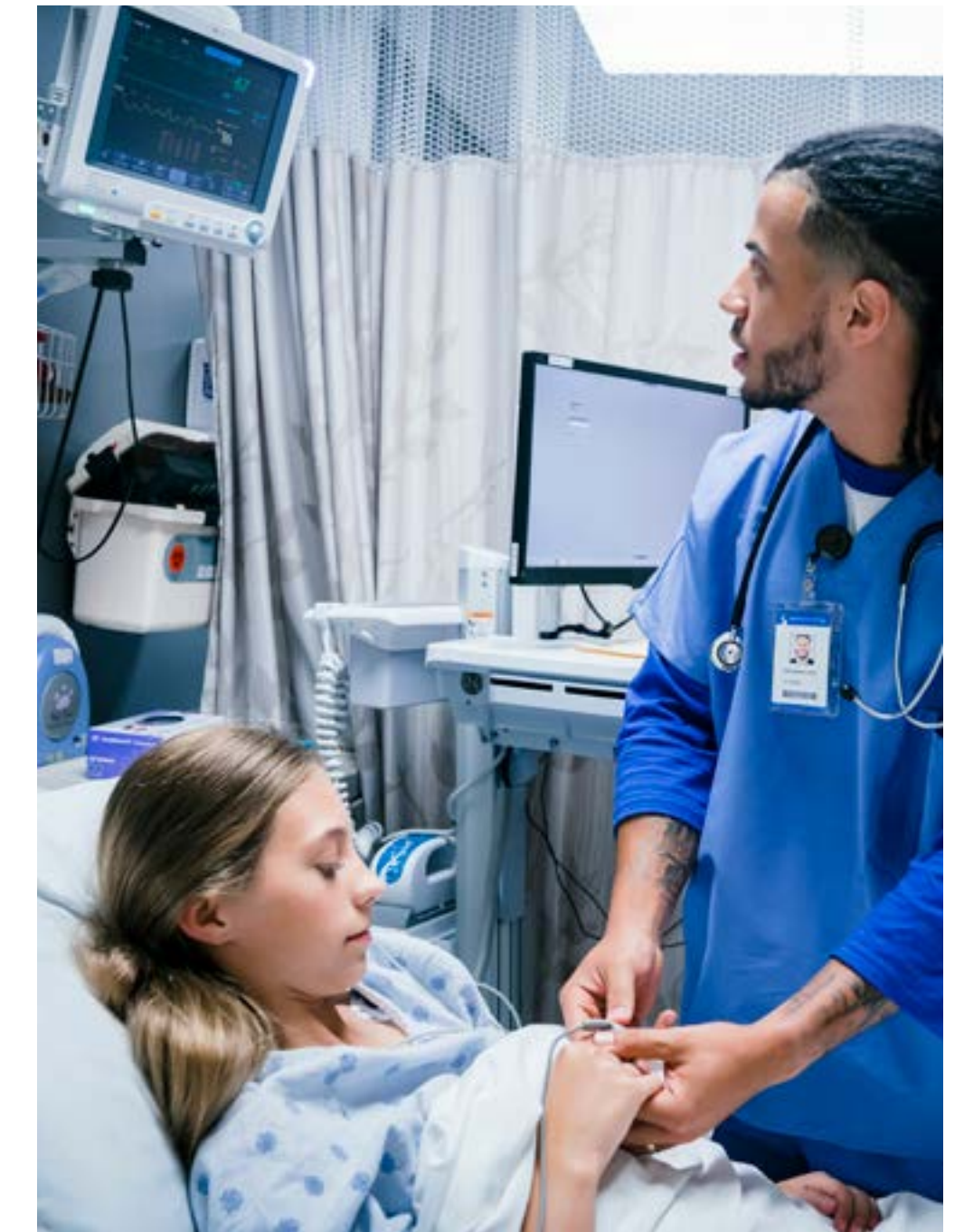


Innovative **SpaceLogic** C-Bus offers



Flexible smart building solutions

The comprehensive SpaceLogic C-Bus product range provides consulting engineers, lighting designers, and system integrators with all the essentials to meet a diverse range of control and management system specifications.



SpaceLogic C-Bus wall plates

SpaceLogic C-Bus offers a wide range of user interfaces from pushbutton wall plates to enhanced dynamic labelling (eDLT) wall plates and touch panels. They are available in various styles, colours, and designs, complementing any interior decor or building design.

SpaceLogic C-Bus Saturn and Saturn Zen eDLT wall plates offer:

- Clean architectural lines with glass, plastic, and metallic fascia
- Customized labels, background and foreground colours, LED indicator on/off colours, time and date settings
- Control up to four pages and up to 16 devices and reduce clutter
- High-resolution colour screen and LED indicators that can be customized to match the decor
- Enhanced icon labels for easy navigation
- Dual-action buttons providing simple, user-friendly control
- Proximity sensing
- Multiple language support



Saturn range



Saturn Zen range



SpaceLogic C-Bus Network Automation Controller

Advanced logic controller for multiple standards and protocols

The SpaceLogic C-Bus solutions are interoperable and can be easily connected with other building automation systems. They're also easy to install, with repetitive configurations and their interface is fully customizable to fit your customers' individual needs.

The SpaceLogic C-Bus Network Automation controller offers a complete solution with unlimited flexibility, simplicity, and efficiency for you and your customers.

It delivers in many ways:

- Integrating the BMS with lighting, blinds, and HVAC
- All controls can be displayed on local and mobile devices
- Displaying gas, water, and electricity usage information
- Optimizing energy efficiency and comfort with advanced logic functions
- Sending notifications in case of any system issue
- Enabling DALI emergency lighting testing, scheduling of testing, reporting, and automated emailing of the reports



SpaceLogic C-Bus DALI-2 Gateway

A single system approach for C-Bus and DALI

The SpaceLogic C-Bus DALI-2 Gateway enables a single process for configuration and commissioning of both C-Bus and DALI systems, including lighting and emergency lighting.*

- DALI-2 certified multi-master application controller
- Full dual isolated DALI lines with independent, integrated, advanced bus power supplies available
- Compact size: 6M width on DIN rail
- Remote access DALI system to enable unplanned and scheduled maintenance of the system**
- Pushbutton dimming delivering a smooth and pleasant dimming experience
- Simple design and flexibility in installation with the combination of pushbutton dimming (single button dimmer) and “daylight harvesting” functionalities
- Occupant comfort with a special ‘warn before off’ lighting feature
- Create the right ambiance, adapting the lighting to your activity, mood, or well-being by controlling the colour of the light



(*) when used in conjunction with SpaceLogic C-Bus Network Automation Controller

(**) when used in conjunction with SpaceLogic C-Bus Ethernet enabled devices

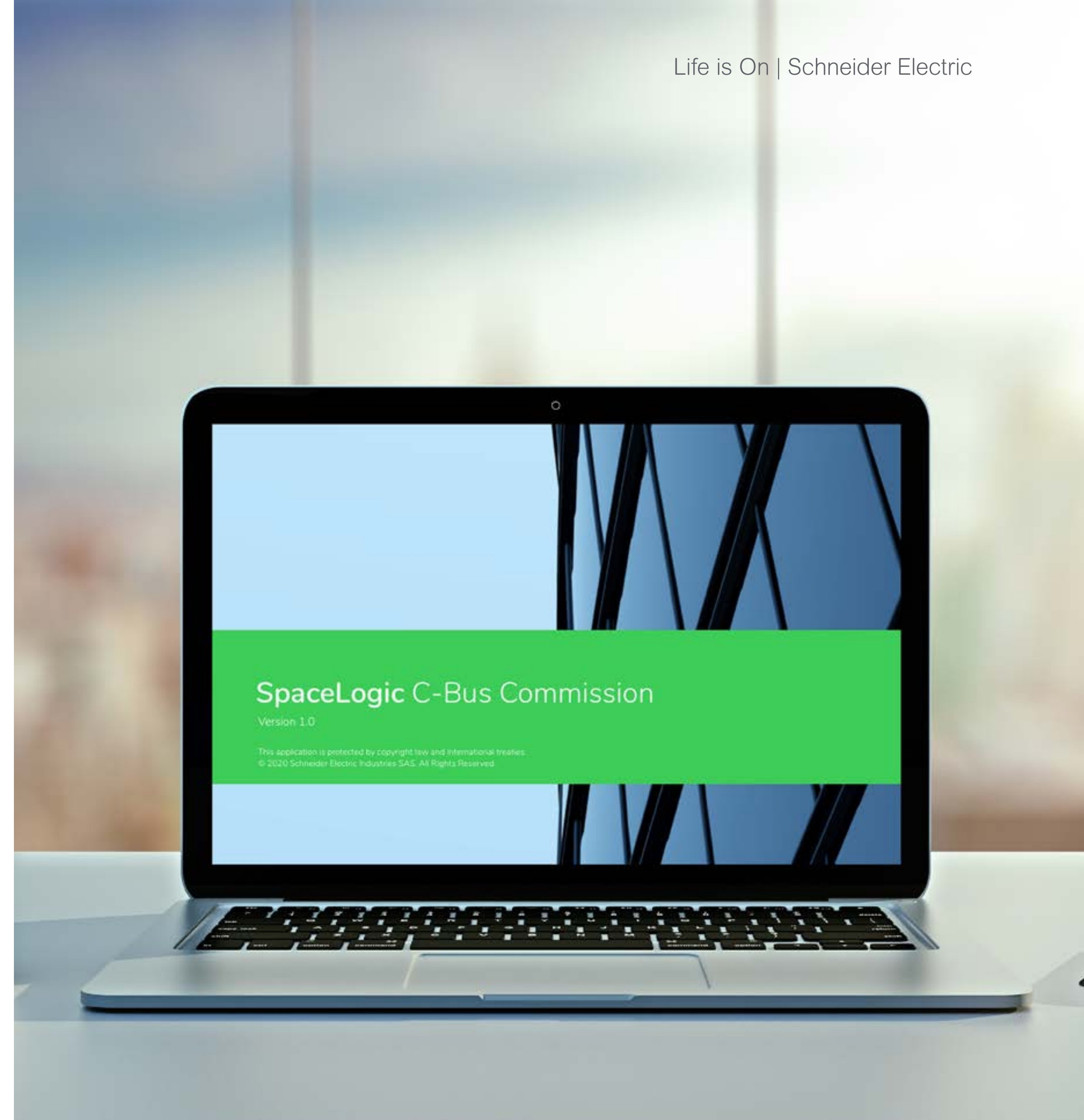


SpaceLogic C-Bus Commission

A single software for engineering efficiency

SpaceLogic C-Bus Commission is a single software tool for designing and commissioning a C-Bus and DALI system.

- Commission C-Bus and DALI as a single lighting control system
- Faster design, configuration, commissioning, and project deployment
- Integrated project documentation with bill of materials for ordering, topology view and as a built report
- Automated controller synchronization for improved efficiency
- Robust network management solution and easy network maintenance
- Improved C-Bus unit addressing for fewer errors
- Improved bulk devices allocation method for reduced execution time
- Enhanced identification mechanism for automatic device location
- Improved user experience for better usability



SpaceLogic C-Bus Sensors

The key to energy efficiency and automation in your building

SpaceLogic C-Bus sensors form an integral part of C-Bus and DALI lighting control systems, providing light level control, daylight harvesting, and occupancy and vacancy detection. These sensors are a key component for enhancing energy efficiency in any building.

- **Constant light level control** – assists with maintaining constant light levels and compensating for changing or diminishing light levels
- **Daylight harvesting** – takes advantage of natural sunlight by dimming lighting in areas that are sufficiently lit through windows, saving energy, and improving comfort
- **Occupancy and vacancy detection** – useful for controlling rooms that are not regularly used such as storage areas, meeting rooms, and toilet facilities. Maintains light levels while people are present, and switches them off after a period of no activity to save energy and OpEx



Get the **SpaceLogic** C-Bus advantage

Contact your trusted partner for buildings of the future

Schneider Electric provides a complete range of SpaceLogic C-Bus solutions, designed to work seamlessly together and provide simplicity, flexibility, and reliability.

Experience

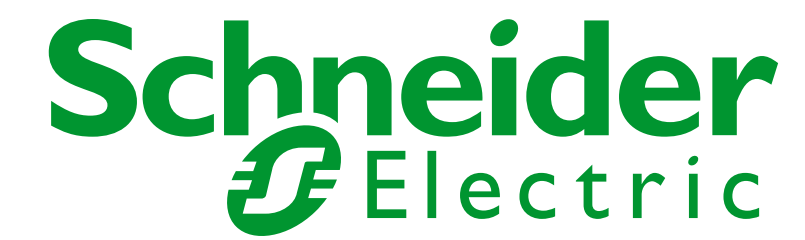
We have been developing C-Bus products for more than 25 years, setting a solid foundation for the latest innovative technology. Through the decades, we have kept a close eye on how customers' needs have evolved – and we have evolved our portfolio to keep up.

Support

We have an extensive team of experts waiting to answer any questions you may have via the Schneider Customer Care Center.



Life Is On



To learn more about
SpaceLogic C-Bus visit

se.com



Schneider Electric

35 rue Joseph Monier
92500 Rueil-Malmaison, France
Tel : +33 (0)1 41 29 70 00

