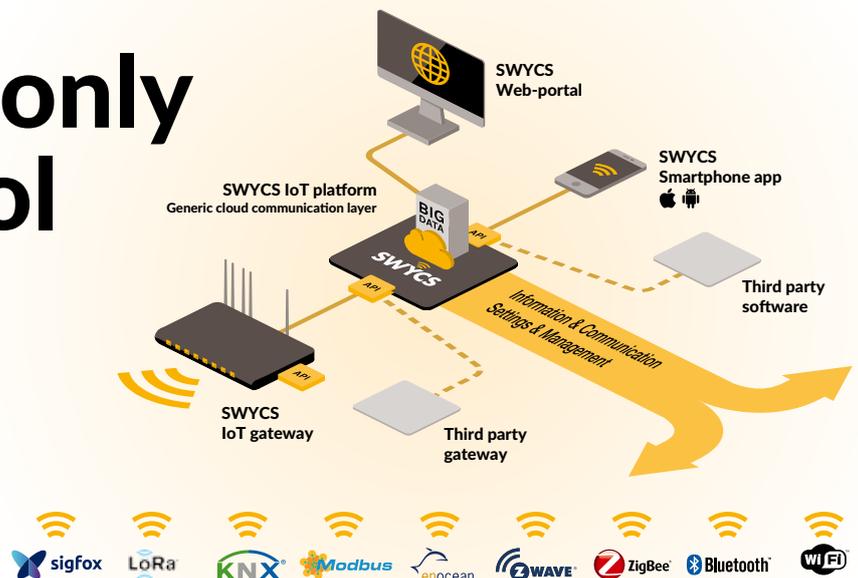


SWYCS

The first and only multi-protocol IoT provider

Gateway + Web Interface + IoT Cloud Platform



Would you like a smarter system for controlling the climate, security, comfort, technical systems and processes in your building? If so, SWYCS' user-friendly solutions will give you all the control you could possibly need!

SWYCS is a universal and vendor-neutral infrastructure that connects wireless equipment and systems based on open standards.

The SWYCS infrastructure supports all relevant IoT protocols, including the LAN, Wi-Fi, ZigBee, Z-Wave, BLE, EnOcean, KNX and Modbus protocols.

The SWYCS indoor multi-protocol and interoperable IoT gateway connects wireless ZigBee, Z-Wave, EnOcean and BLE equipment and systems.

The gateway is linked to the SWYCS IoT platform via an API, and you can also use a SWYCS web portal to create a fully integrated and smart control environment.

- ✓ **Multi-protocol IoT provider**
SWYCS offers the first and only multi-protocol IoT gateway to integrate ZigBee, Z-Wave, EnOcean and BLE via a single device, meaning all relevant wireless indoor communication protocols are supported.
- ✓ **Generic and vendor-neutral**
Open protocols and vendor neutral: all possible smart devices can be connected.
- ✓ **Links internal and external data**
Links data sources and gateways or third-party host computers with the SWYCS platform to connect all possible data and devices with the SWYCS infrastructure.
- ✓ **Offline Access Point**
The hardware and software of the SWYCS gateway is embedded in the Access Point, meaning the processes function locally and autonomously (separately from the internet connection). As a result, there is zero latency.
- ✓ **1 hour of emergency power**
The SWYCS gateway is equipped with an internal battery with an autonomous battery backup time of at least 60 minutes, meaning your critical business processes will continue to function in the event of power cuts or repair work.
- ✓ **1 month of data backup**
Internal data storage: the gateway stores the data it collects for one month, so it remains available even if connection with the cloud is lost. Once the connection is restored, the data is automatically synchronised.
- ✓ **Also compatible with legacy structures**
Suitable for new and existing buildings. Connect existing equipment to the gateway via a wireless interface module, for example, by connecting your PLC/Modbus equipment to a DIN-rail EnOcean module. In this way, you can make 'dim' infrastructure smart!
- ✓ **Click & Play**
Get started immediately!

See What You Can Save.

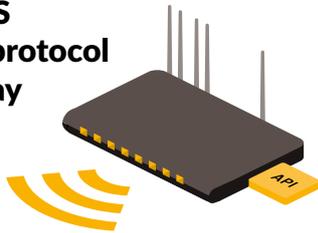
Universal and secure wireless communication

SWYCS makes the Internet of Things accessible to your company using advanced yet highly accessible Internet of Things infrastructure and solutions.

The SWYCS concept stands for integration of health, welfare, building maintenance, systems, ICT and energy management. This integrated platform offers an extremely effective and efficient environment to guarantee the security, welfare and comfort of the users of a building for a reasonable price.

The full SWYCS infrastructure consists of three components:

1. SWYCS multi-protocol gateway



The unique multi-protocol SWYCS gateway enables wireless devices using different protocols to communicate directly with each other.

Thanks to a specially developed software bridge and APIs, SWYCS supports the wireless ZigBee, Z-Wave, BLE and EnOcean protocols. In addition, a converter can be used to generate a wireless signal for KNX, Modbus and PLC devices, meaning these devices can also be integrated into the IoT platform.

Benefits of the unique and innovative gateway:

- SWYCS offers the first and only multi-protocol IoT gateway to integrate ZigBee, Z-Wave, EnOcean and BLE via a single device, meaning all relevant wireless indoor communication protocols are supported.
- Open protocols and vendor neutral: all possible smart devices can be connected.
- The hardware and software of the SWYCS gateway is embedded in the Access Point, meaning the processes function locally and autonomously (separately from the internet connection). As a result, there is zero latency.
- The SWYCS gateway is equipped with an internal battery with an autonomous battery life of at least 60 minutes, meaning your critical business processes will continue to function in the event of power cuts or repair work.
- Internal data storage: the gateway stores the data it collects for one month, meaning it remains available even if connection with the cloud is lost. Once the connection is restored, the data is automatically synchronised.

- Suitable for new and existing infrastructure. Connect existing equipment to the gateway via a wireless interface module, for example, by connecting your PLC/Modbus equipment to a DIN-rail EnOcean module. In this way, you can make 'dim' infrastructure smart!

2. SWYCS IoT platform



The SWYCS IoT platform links the SWYCS web portal, the SWYCS IoT gateway and any third-party gateways or host computers. Third-party software and data can also be connected.

Available options:

- Connection of the SWYCS gateway and SWYCS web portal
- Connection of third-party gateways
- Connection of third-party software and data
- Secure environment via encryption and in accordance with the latest TLS standards
- Secure connections
- Data backup
- Big Data analysis

Other functions:

- All devices automatically identified
- Connection of third-party data, gateways and host computers, which merges the physical and virtual world into a single smart solution.

3. SWYCS web portal



The SWYCS web portal is a user-friendly and intuitive interface that enables effective set-up, monitoring and management of equipment. The SWYCS portal provides easy and convenient access to all of the data on the SWYCS Internet of Things platform. You can access the portal at any time and from any location via your PC or laptop, and you can also log in to your personal SWYCS environment via the handy Android and iOS apps. Your dashboard displays an

overview of the connected systems and devices in particular locations, enabling you to monitor performance and control your systems and devices in real time.

Monitoring

In the portal, it is possible to create presentations of the available measurements in all kinds of ways. The drag-and-drop system in the page builder enables presentation screens to be created at the click of a mouse. This can also be done using floor plans of your own building, which can be easily read into the portal. This page can also easily be shared with people with no access to the SWYCS portal.

Easy to authorise

It is easy to add or remove users via the portal. The administrator decides which users are granted certain authorisations, e.g. tenants are only allowed to view usage in their own apartments, while technicians can control all possible devices within the building in question. This enables many different types of user to benefit from the user-friendly SWYCS system.

Simple management

Rules: All authorised users can easily make connections between measurements and activities. One or more measurements can be programmed to trigger one or more automated activities. For example, if a certain temperature or humidity level or a combination of both is detected, then a Heater can be activated, or for connected-health applications, a doctor can be immediately alerted if a patient's heartbeat becomes irregular.

Timetables

By filling in timetables, building managers can easily schedule or adjust activities. For example, you can preprogram when certain rooms should be heated or when the coffee machine needs to be in operation.

Reporting

The SWYCS portal's reporting tool enables easy compilation of reports and generation of periodic reports.

Available options

- Programming of devices and systems according to the IF, THEN, ELSE principle
- Programming of timetables
- Set up alerts via text messages or e-mail
- Easy administration: create users with different authorisation profiles
- Secure: https protocol, usernames and password authentication
- Available via your portal – corporate identity and logo will be customised

Your SWYCS supplier: