SMART
Connected Building Solutions

- Wireless and Ethernet connectivity
- Protocol Translators, AC Interfaces, Cloud Solutions
- Remote solutions
- Visualization software
Interconnecting intelligent building components is an increasing challenge as there are many different technologies that are utilized and many different protocols for each application area. Added to this, the use of IoT connectivity broadens the opportunities but also adds to new topics such as cyber security.

**BMS Controller**
A Building Management System (BMS) controller is the normal central controller for larger smart buildings. They are used to control and unify lots of aspects of building automation. These devices' communication abilities differ with each manufacturer. They are difficult to setup and sometimes hard to connect to other devices.

**Access Control**
Secure access for authorising people to buildings and knowing who is within a building at any given time is an important part of modern buildings and use protocols such as LDAP and SAML making integration difficult.

**Security Systems**
These systems can range from basic discrete alarms on windows, to complete video monitoring solutions. Increased integration into a SMART building automation is a challenge to all integrators.

**Meters**
Meters such as water, gas and electricity use various networks to communicate data. This network varies with each manufacturer complicating data transfer.

**Lighting**
Various lighting communication systems are available with networks like DALI. Linking these lighting protocols to other building systems seamlessly can be difficult.

**EV Chargers**
Electric Vehicle chargers are now part of legislation around the world for new houses and buildings, with the challenge being how to manage their energy consumption and connect them to existing building infrastructures.

**Air Conditioning**
Most air conditioning companies have their own proprietary network interfaces and protocols. Connecting air conditioning devices onto other systems not supplied by the air conditioning manufacturer can be problematic.

**Fire Protection**
Fire protection systems tend to be separate stand-alone systems that do not easily interface to other control solutions.

**Electric Blinds**
To ensure efficient energy management, control of windows and blinds is becoming an increasingly important part of a smart building solution.
Intesis ST Cloud / AC Cloud uses a range of gateways that add cloud monitoring and control to devices such as HVAC units, Meters, Thermostats, Sensors etc.

- BACnet & Modbus enabled
- Uses Intesis MAPS software for configuration
- Gives an easy-to-use GUI for monitoring your device data

Connecting devices to your Ethernet infrastructure using wireless connections is so simple with the Wireless bolt range.

- Range up to 100 metres
- IP67 housing for internal and external use
- Ethernet, Serial and IoT versions

For easy connect of Ethernet, Wi-Fi and 5G devices the Anybus range of Access Points, Switches and Routers offer secure communication in any building.

- Access Points have Wi-Fi 5 and Mesh
- Dual SIM cards on LTE routers
- Port mirroring on managed switches

An easy way to connect onto building fire protection systems is via ASCII or Modbus protocols. Most have openly published protocols for connecting to 3rd party devices making the Anybus Communicator the perfect interface.

- ASCII, Modbus, ETHERNET/IP, PROFINET
- RS232/422/485
- 1500 bytes of data bi-directionally
With the Intesis range of AC Interface gateways you can connect other networks onto all the leading air conditioning manufacturers products directly, saving time, money and energy.
- Uses Intesis MAPs for configuration
- IR receiver variants
- Fully bi-directional

Instead of using a BMS for energy management of smaller buildings a Netbiter can provide a much lower cost BEMS solution.
- Can use mobile phone or internet to send/receive data
- Simple to use Soft logic
- Dashboards, reports, alarms and trend graphs

EWON Cosy gateways allow secure remote connection to devices such as BMS systems to allow them to be configured and monitored remotely.
- ISO 27001 certified
- Wi-Fi, 4G, 3G and Ethernet connections
- OpenVPN either in SSL UDP or TCP

WEBfactory’s i4 software products connect your buildings and infrastructure with the digital world. They record all relevant data exactly where they occur.
- Real-time Management Control System
- Visualisation and control of processes
- Analysis and prediction of events

The Anybus Communicators allow Access control systems to be connected to other networks such as Modbus TCP using their own serial protocols.
- RS232/422/485
- 1500 bytes of data bi-directionally
- Security chip, security switch and secure boot

Designed to control and monitor all parameters in smart building protocols Intesis protocol translators also allow connection to other areas such as factory automation.
- KNX, BACnet, ASCII, DALI, M-Bus, Modbus combinations
- Uses Intesis MAPs software for configuration
- Multiple ports for the different physical layers

Intesis BACnet to M-Bus and M-Bus to Modbus gateways are a great way of connecting the different meters used in modern buildings.
- Low power consumption
- USB or IP port configurable
- Uses Intesis MAPs software for configuration

OCPP gateways are the perfect way to take data to and from your vehicle charging systems and connect them into Smart Building protocols such as Modbus.
- Up to 20 EV chargers per gateway
- Bi-directional to Modbus RTU or TCP
- Uses Intesis MAPs for configuration