MyHOME_Up - Function integration

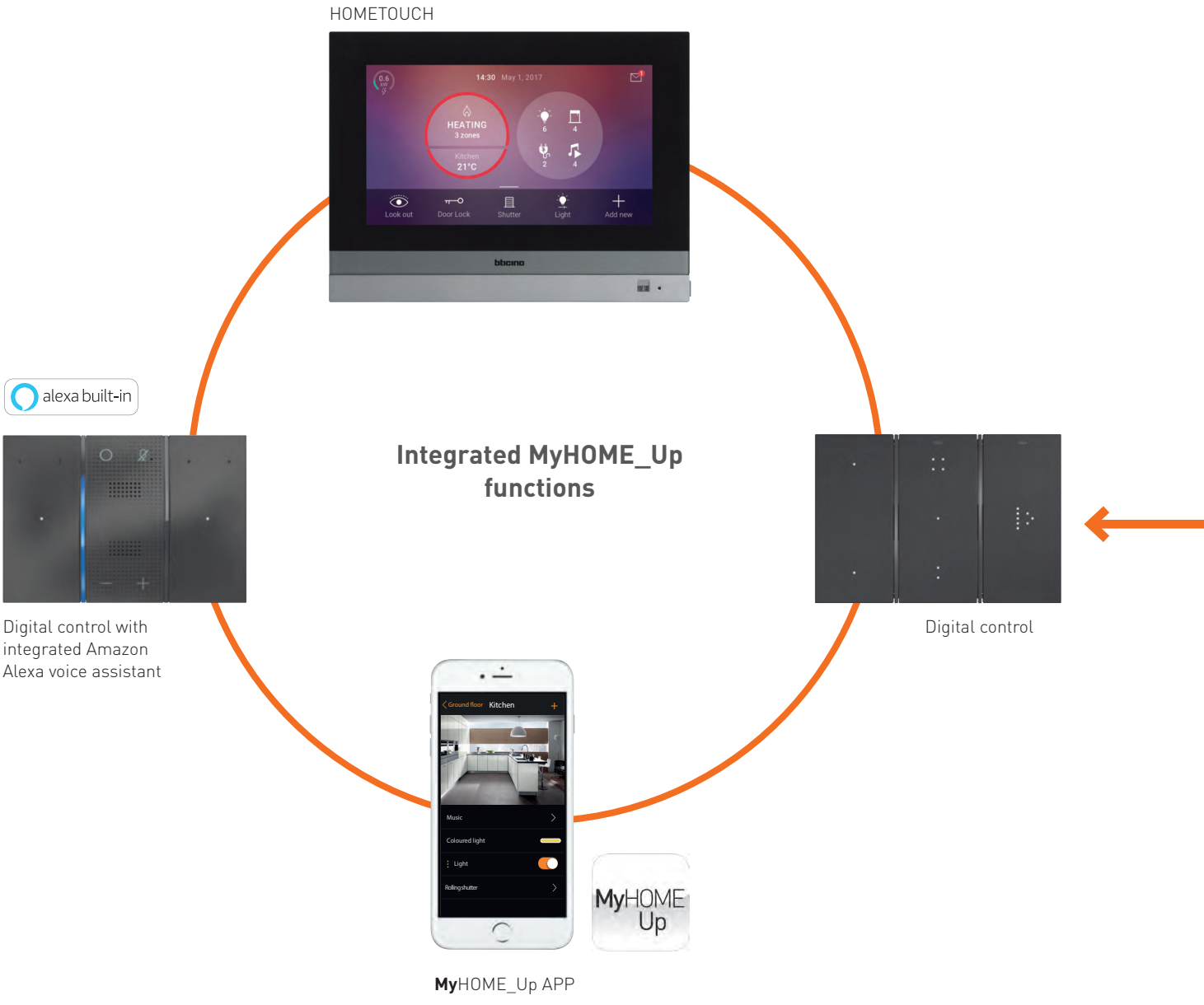
Function integration

The integration of the various home automation functions allows to set advanced functions that could not be possible with a traditional system.

For example it is possible to:

- create advanced functions, such as switching on all the lights following an intrusion alarm;
- create scenarios for the simultaneous activation of several devices of the **My**HOME_Up system for the creation of comfort situations.

The integration also allows to control all the home automation functions through central control devices, such as the HOMETOUCH Touch Screen, or a Smartphone with the **My**HOME_Up supervision App. With **My**HOME_Up it is possible to have two types of integration:



1. **Integration of two or more MyHOME_Up** functions, such as the light automation system with the temperature control system, or the load management system.

2. **Integration of two or more MyHOME_Up functions with other BTicino and/or third party systems**, possible using the LAN network and the TCP-IP communication protocol, or dedicated interfaces. An example is represented by the integration of the Automation system with the radio-wired Burglar Alarm system, or with the NUVO digital audio system. They can also be integrated with third-party products, such as air conditioning systems, Philips Hue lamps, etc...

NUVO audio system

Burglar alarm

Driver manager F459

MyHOMEServer1

Other brand systems

Air conditioning systems

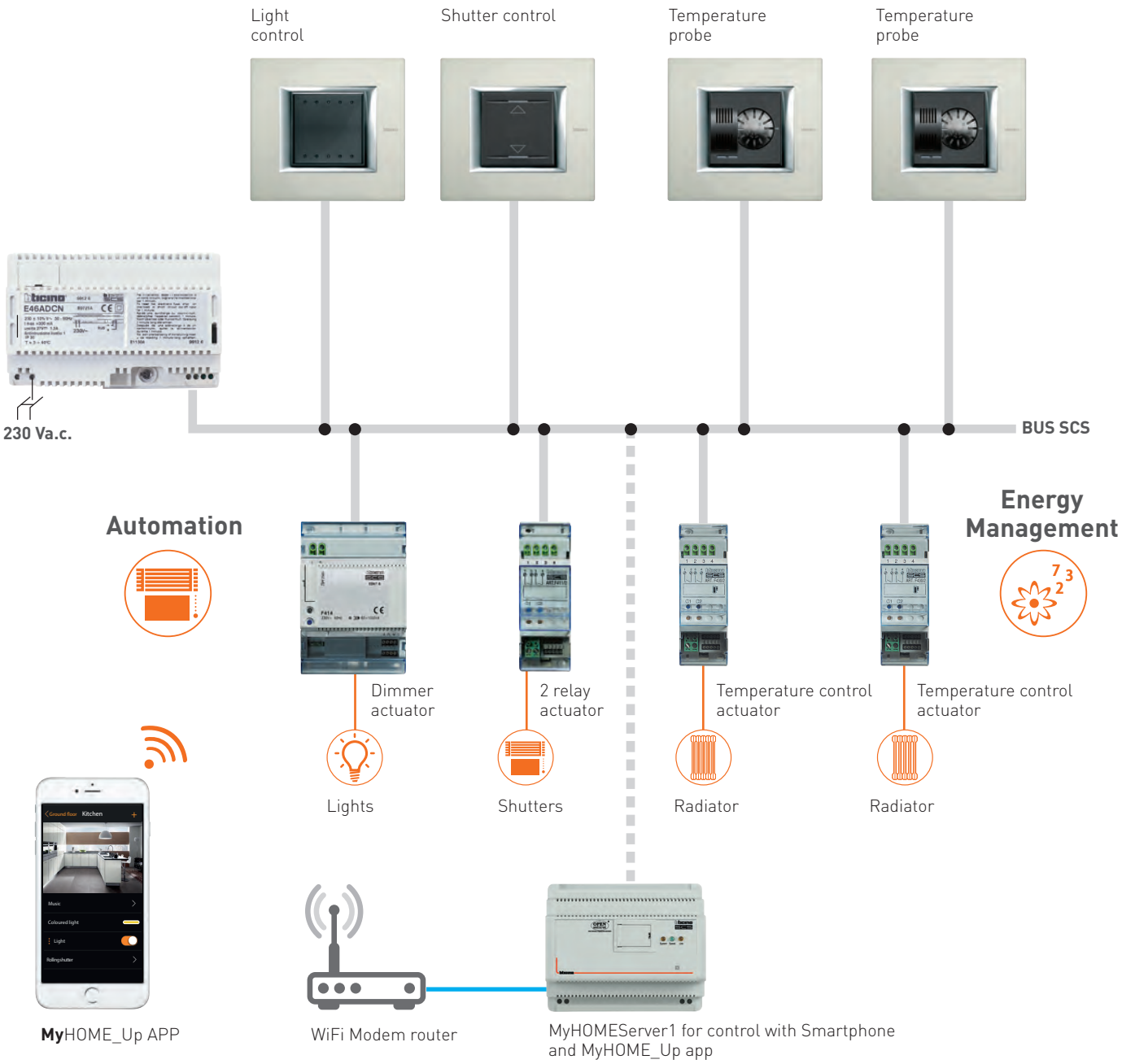
Lighting with RGB lamps

Management of weather stations and sensors

Function integration

INTEGRATION OF LIGHT AUTOMATION, LOAD MANAGEMENT, CONSUMPTION DISPLAY AND TEMPERATURE CONTROL SYSTEMS

The integration is achieved without the use of special interfaces, as the devices share the same BUS cable and electric power supply.

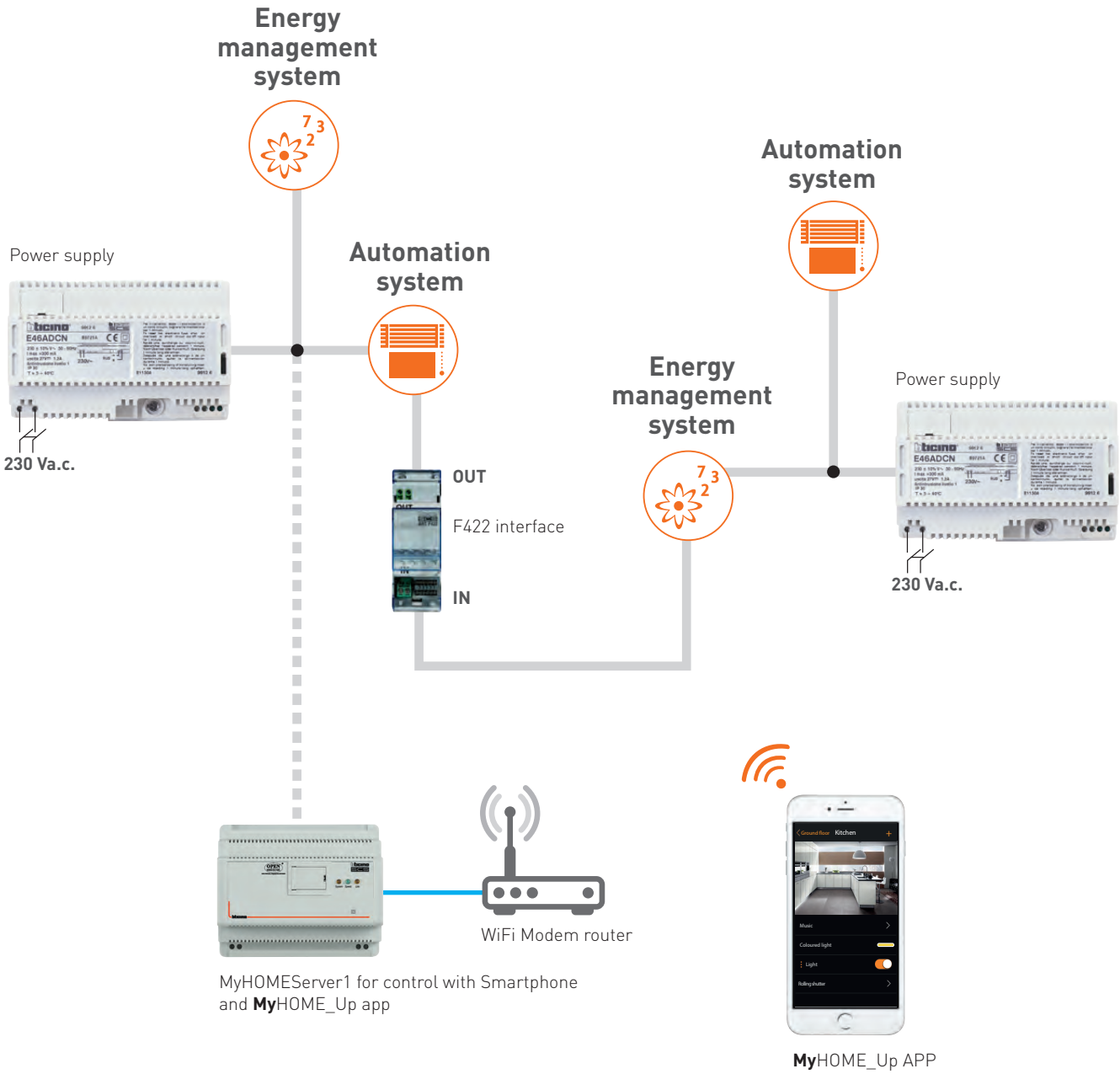


“Physical separation” mode

In case of need of splitting the system in order to achieve the current absorption values, or to keep them separate, interface F422 must be used in “physical separation” mode.

With this mode, each system can be connected both to the OUT and the IN clamp of the F422 interface used to keep the corresponding BUS separate, and the electric power supplies independent.
The interface operating mode will be set automatically from MyHOMEServer1 the first time the system is switched on.

F422 interface



Function integration

INTEGRATION OF **My**HOME_Up SYSTEMS WITH BTICINO AND/OR THIRD PARTY SYSTEMS

MyHOME is an open system that can be easily integrated, without any modifications, with the best technologies, and with systems and devices of other manufacturers. The integration is completed in the following ways:

A. Using the F422 interface or the HOME TOUCH touchscreen, for the integration of the automation and temperature control system with the video door entry system.

B. Using the MyHOMEServer1 gateway based integration platform.

C. Using the MyHOME_Link integration platform based on the use of the F459 Driver manager and the TCP/IP communication protocol.

D. Using integration devices with different communication protocols, such as DALI, etc.;

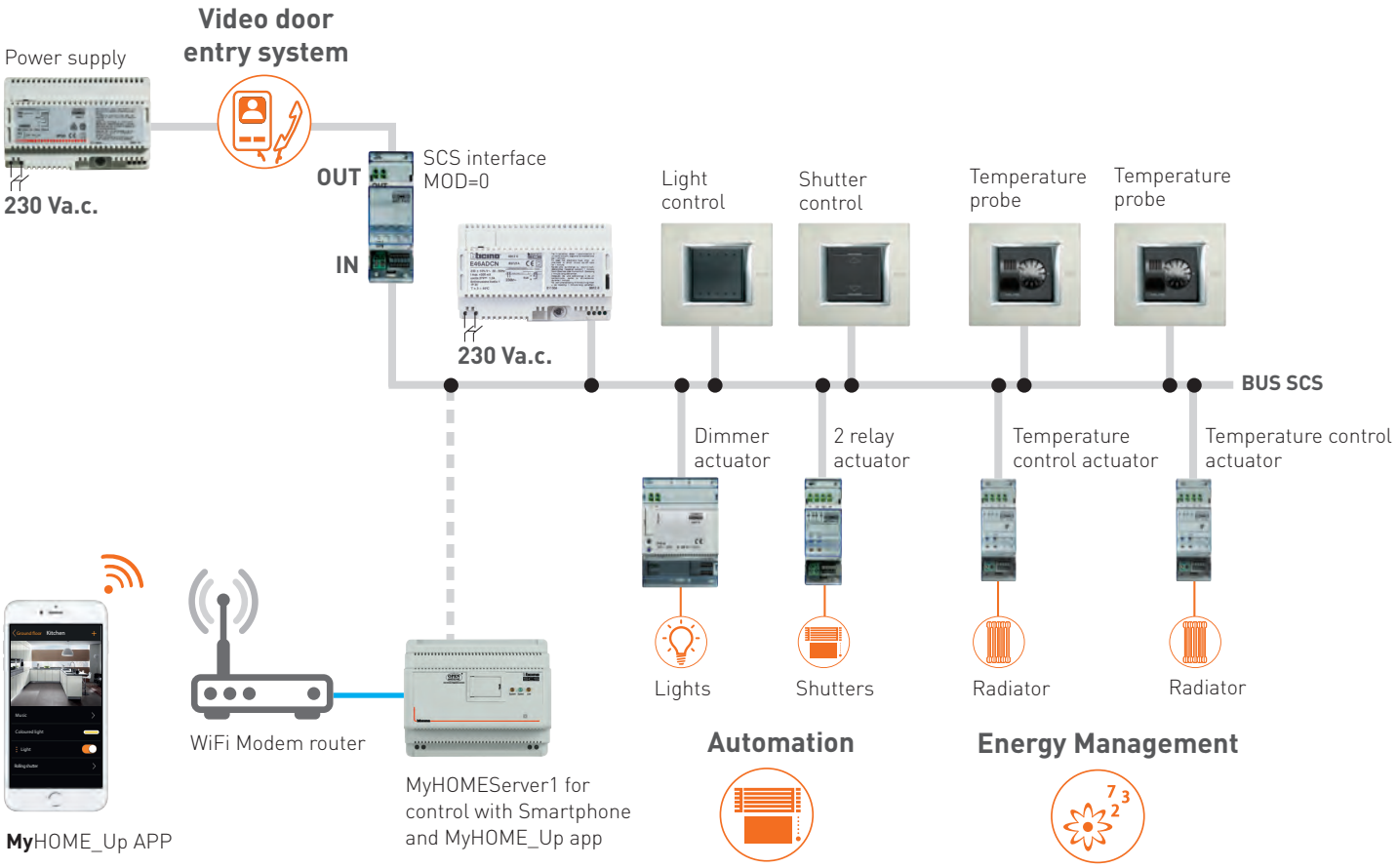
E. Developing API based applications supplied by BTicino through the "Works With Legrand" program.

A.1 Use of interface item F422

For the integration of the two systems shown, interface F422 must be configured in "galvanic separation" mode (configurator 0 in the MOD position);

This device makes it possible to use some Automation devices for the activation of Video door entry functions, such as switching a light or a camera on.

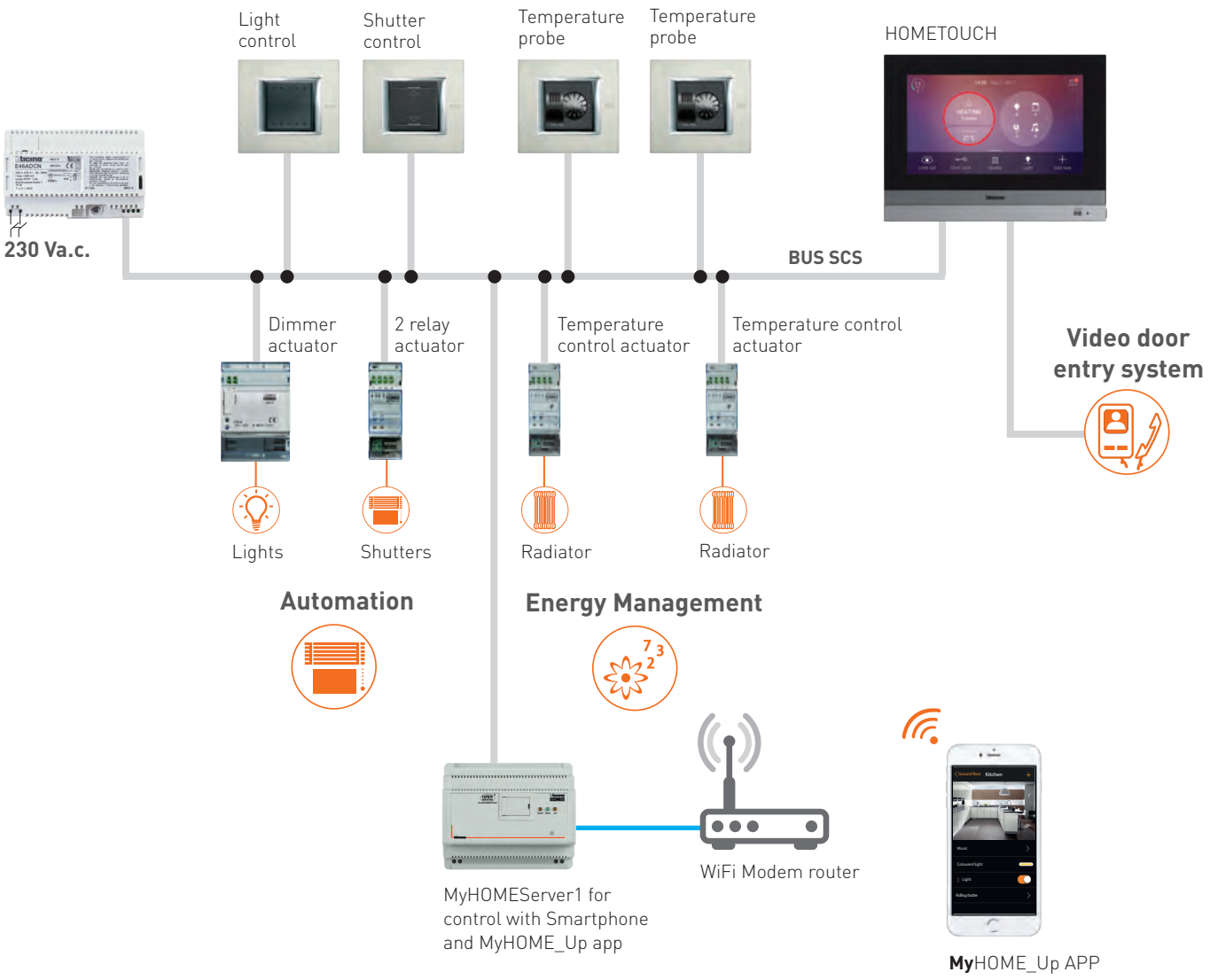
For more information, see the CONNECTION DIAGRAMS - VARIATIONS sections of the design guide for BTicino 2 wires audio and video door entry systems.



A2. Use of HOMETOUCH Touch Screen

When managing home automation and video door entry system functions using the HOMETOUCH touch screen, interface F422 is not required.
In this case, the integration is completed from HOMETOUCH connected to the Automation and Video door entry system BUS.

The MyHOMEServer1 gateway must also be installed in the system, for the integrated management of the Automation, Temperature control and Video door entry system for the association of the devices.
Function control can be completed locally or remotely using the Smartphone, with the MyHOME_Up and Door Entry Apps.



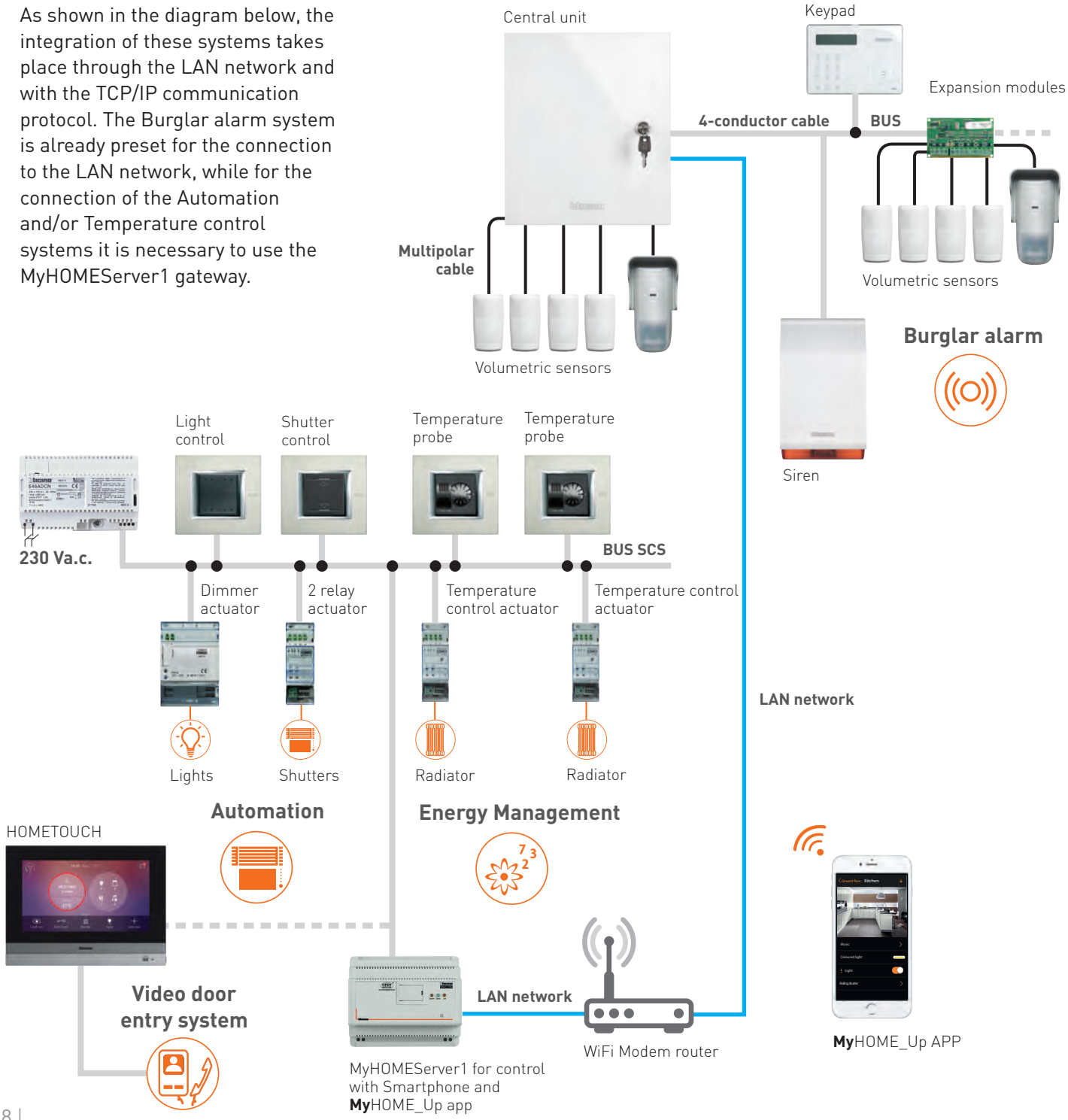
Function integration

INTEGRATION OF **My**HOME_Up SYSTEMS WITH BTICINO AND/OR OTHER PARTS SYSTEMS

B. Use of Gateway item MyHOMEServer1

The use of MyHOMEServer1 allows the integration of automation, temperature control and video door entry system with other BTicino systems or third party systems, such as the burglar alarm, coloured lights and sound diffusion.
As shown in the diagram below, the integration of these systems takes place through the LAN network and with the TCP/IP communication protocol. The Burglar alarm system is already preset for the connection to the LAN network, while for the connection of the Automation and/or Temperature control systems it is necessary to use the MyHOMEServer1 gateway.

In addition to the control of all the functions using the Smartphone and the MyHOME_Up App, and the HOMETOUCH touch screen, it will be possible to create Smart scenarios resulting from the synergy of several systems; for example, when activating the Burglar alarm system when leaving the house, it is possible to set the temperature at an economy level, closing the shutters and switching the lights off.

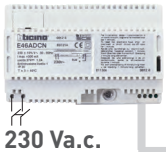


This page shows another example of integration through the LAN network of Automation, Temperature control, NUVO multiroom audio system, and lighting with Philips HUE lamps.

Philips HUE lamps and gateways

1-zone player

NUVO player



230 Va.c.

Light control

Shutter control

Temperature probe

Temperature probe

BUS SCS

Dimmer actuator

2 relay actuator

Temperature control actuator

Temperature control actuator

LAN network

Lights

Shutters

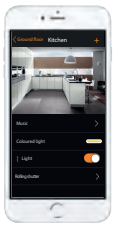
Radiator

Radiator

Automation

Energy Management

HOMETOUCH



MyHOME_Up APP

LAN network

WiFi Modem router

MyHOMEServer1

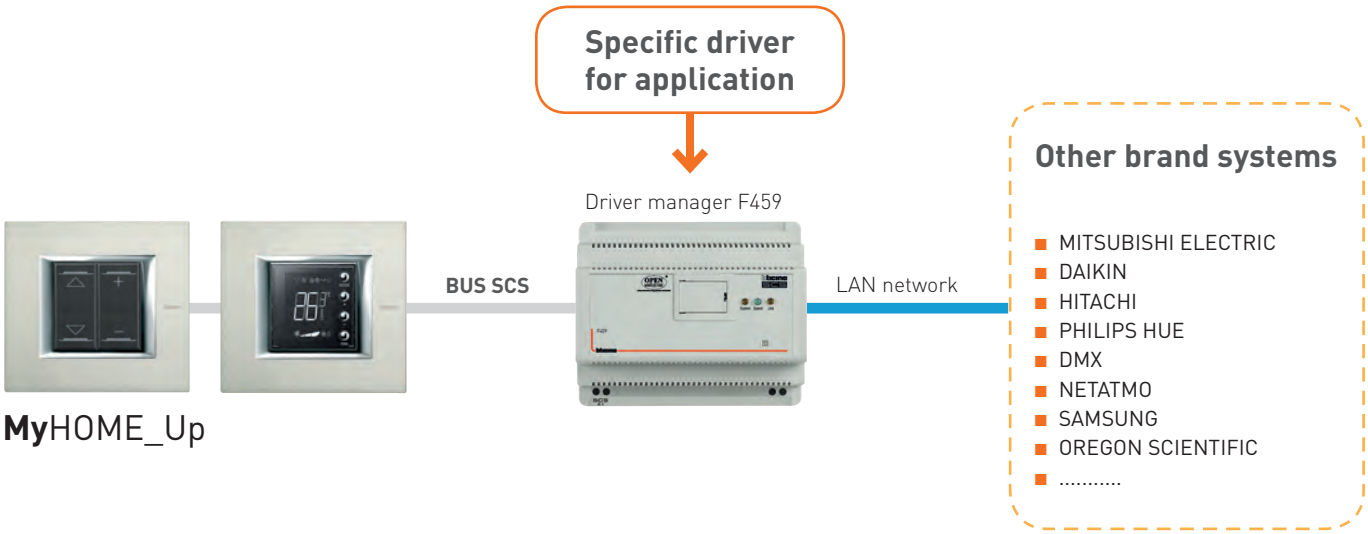
Function integration

INTEGRATION OF **My**HOME_Up SYSTEMS WITH BTICINO AND/OR OTHER PARTS SYSTEMS

C. Integration by means of Driver manager gateway item F459

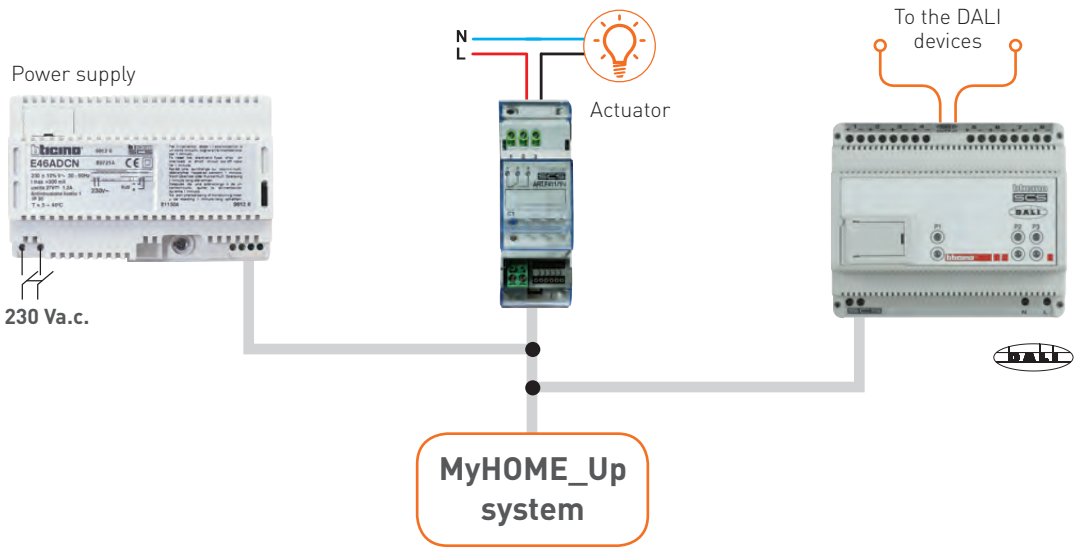
This integration solution uses the Driver manager, item F459, appropriately configured with the specific driver, specifically made to manage functions/systems of third-party manufacturers.
It is for example possible to manage, through the MyHOME zone temperature control system, VRV, VRF and air conditioning systems of the main manufacturers on the market. The F459 device can be programmed with several drivers, for the management of several systems integrated with MyHOME.

For technical information, details and a view of all the available drivers, visit: **www.bticino.com**



D. Integration by means of dedicated interfaces

The **My**HOME_Up catalogue also includes the F429 interface for the integration of the DALI protocol.



E. Integration using the Application Programming Interface (API)

API integration can be made in two ways:
- interoperability through the sharing of different languages on the IP level (local and through the cloud).
- interoperability through IOT Cloud platforms, for example Artik Samsung and similar.

Works With Legrand is available for professionals that must use this integration solution.

This is the open interoperability platform, a strategic part of the Eliot program (program of the connected objects of the Legrand group). Compatible with the main IoT world players, it gives the possibility of connecting with the Legrand ecosystem in several ways, allowing small and large developers to interact with **My**HOME_Up.

For more details please visit: **www.bticino.com**