CASE STUDY

MEET-SIMON iO integration

Description
This document outlines the steps to be taken to integrate a MEET monitor with the Simon iO ecosystem.

V1.0

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INTRODUCTION

The purpose of this document is to explain the steps to follow in order to manage a Smarthome iO installation from WIT monitors, using WiFi 270iO devices or through the Simon iO Hub. In this way, the same screen that is used to receive the video door entry call is used for home automation management.

MATERIAL REQUIRED

Outside the house:

Any door station from the Fermax MEET family can be used for this integration.

- In the case of single-family dwellings, the one-way MILO panel (single pushbutton) shall be used.
- In the case of a building or housing estate, the MILO panel can be used or, if an electronic directory is required, the KIN or MARINE panel.

The outdoor panel may require a power supply or PoE splitter if PoE is not supported.

The electric lock release must be powered, in parallel to the outdoor panel, with the same or different power supply depending on the type of lock release.
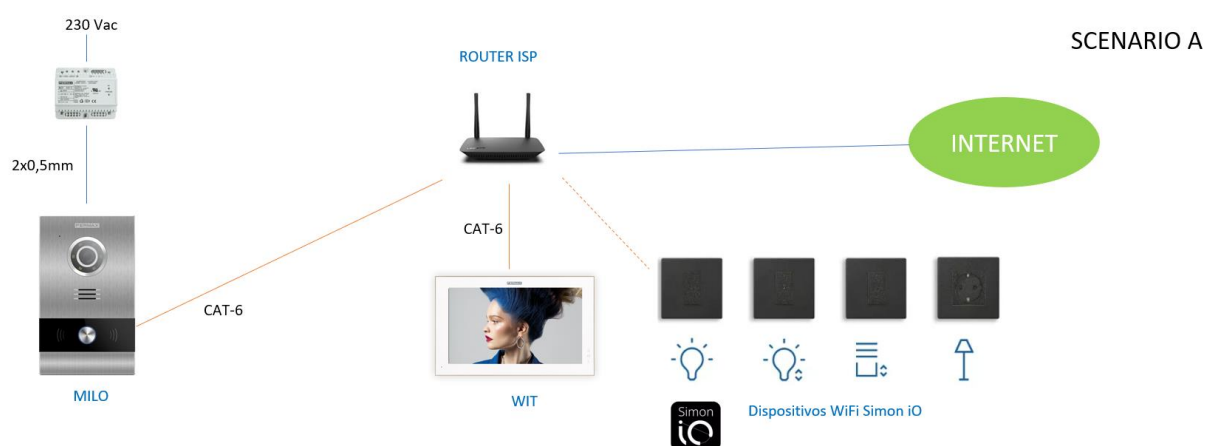
Inside each dwelling:

- Ref. 14721 or 14831. Monitor WIT 7 or 10'' (Android 10)
- Ref. 9541. NEO/WIT Monitor Connector
- Simon iO WiFI Devices or Simon iO Hub

BASIC SCHEME

A) Single-family installation.

The usual MEET installation scheme will be used, with the only additional requirement of connecting the panel and monitor to the local network of the home installation.
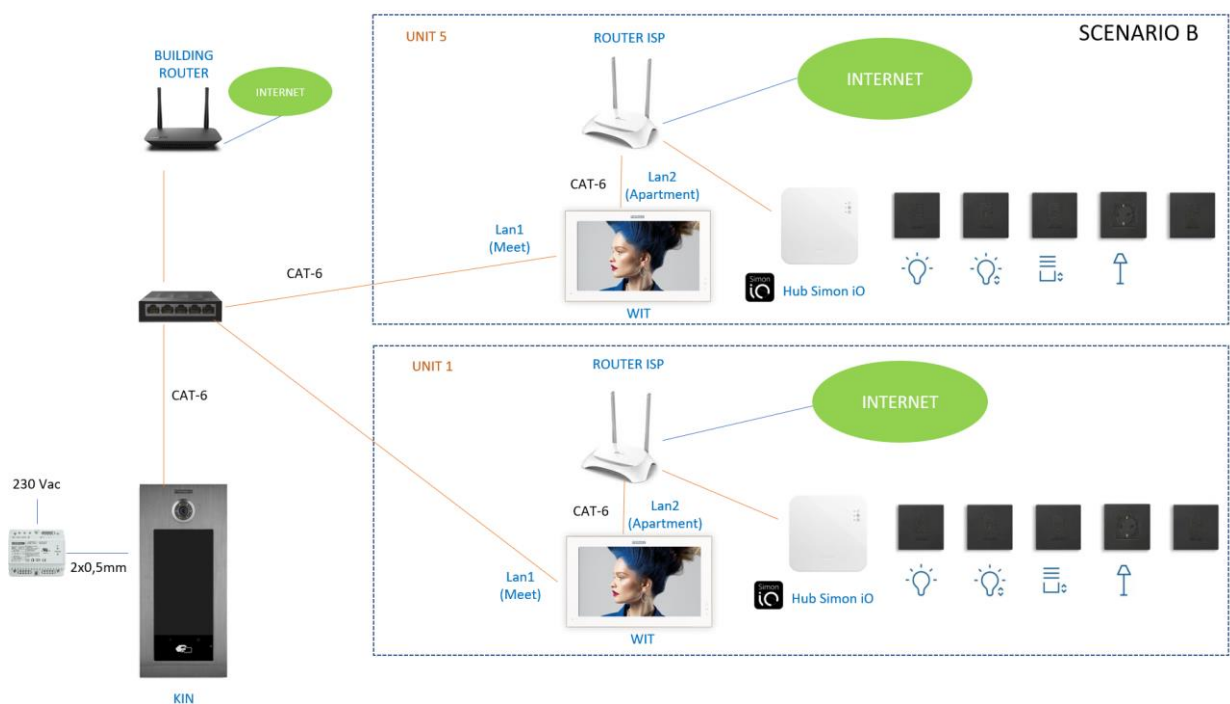

Several WIT monitors (ref. 14721 or ref.14831) can be installed, one in each room, up to a maximum of 8, with the possibility of receiving calls from the outdoor panel and also managing the home automation in all of them. The RJ-45 Meet connection with static IP is used in the monitor.
It is necessary to install network cabling to each WIT monitor by setting a different fixed IP for each of them.

B) Building installation

For a correct installation and configuration of the system, the outdoor panel must be connected to the building's data network, which must also have an internet connection to manage call forwarding to mobile devices. To do this, cat5 or higher wiring must be used, and a switch must be used to communicate the interior monitors of each home with the outdoor panel and the community data network.

One or several WIT monitors (ref. 14831 or 14833) can be installed inside the home, up to a maximum of 8, with the possibility of receiving calls from the outdoor panel and managing the home automation in all of them. The monitor has two differentiated and isolated network sockets, to be able to separate the individual installation (LAN2 port) from the building network (LAN1 port), thus providing greater security to the MEET installations.

The connection to the Simon iO ecosystem cloud, as well as the internet connection of the WIT monitors in each home, is made through each user's private network connection. It is therefore necessary to have internet access when configuring the Simon iO app on the monitor.

A communal internet connection is required if you want to be able to forward calls to the MeetMe App in parallel to the home monitors.

INSTALLATION

In order to correctly connect and configure the different elements, it is recommended to follow the installation protocol of a Meet system outdoor panel, as well as the installation guide of the Simon iO ecosystem.

Both the Simon iO WiFi devices and the Simon iO Hub must be paired with the Cloud using the router and the internet connection of each home, following the steps of the guided configuration of the Simon iO app via a smartphone.

IMPORTANT: *The FERMAX Meet WIT screen is not to be used for initial configuration of Simon iO devices. It is only to be used for status display and activation of devices and scenes or experiences. Instead, a Smartphone with an IOS or Android operating system must be used.*

In a single-family installation, connect the outdoor panel and monitor to the ISP router.

In a residential high-rise installation, a building network will be created, with a separate ISP router if call forwarding to the MeetMe App is desired. The Lan1 input of the monitors will be connected to the building network. The Lan2 input will be connected to the individual router of each flat.

The SimoniO WiFi Hub or devices will be paired with each home's router via the Simon iO app on a smartphone.
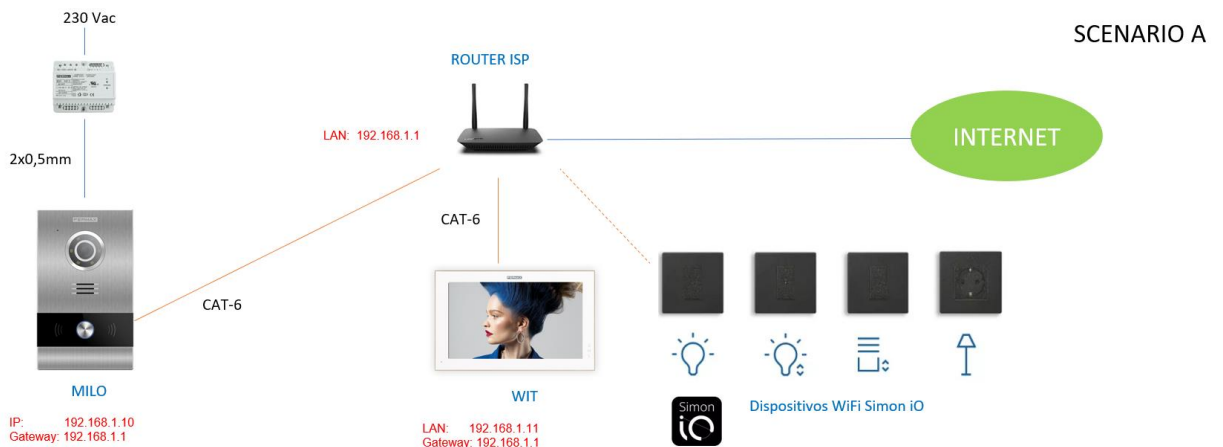
CONFIGURATION

Note: *The IP addresses shown below are examples. They should be chosen according to the home router or according to the building installation if the MEET system is shared with other devices.*

OUTDOOR PANEL AND MONITORS

No special configuration is required as the operation of the call is independent of the home automation system.
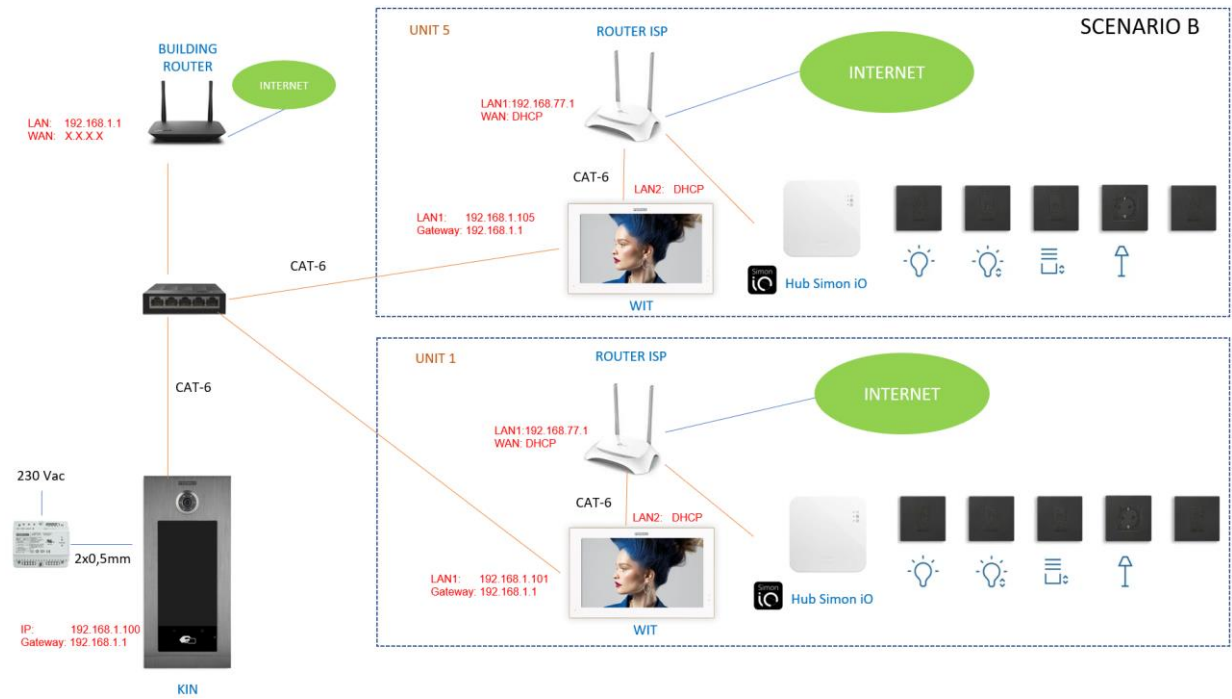
A) **Single-family installation:**
   Assign an IP address to the entrance panel and the monitor within the home router network (e.g. 192.168.1.10 panel and 192.168.1.11 monitor) and as Gateway the IP address of the router (192.168.1.1).

B) **Building installation**
   Assign the panel an IP address within the building network (e.g. 192.168.1.100) and as Gateway the IP address of the building router if there is one (192.168.1.1).

Assign the monitors an IP address within the building network (e.g. 192.168.1.101 home monitor 1, 192.168.1.102 home monitor 2,...) and as Gateway the IP of the building router (192.168.1.1).
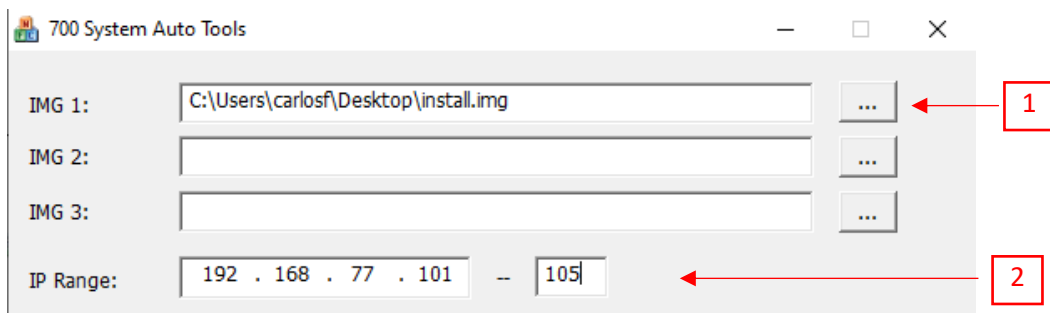

PRIVATE NETWORK CONNECTION OF EACH DWELLING

Enable DHCP in the home router so that it assigns an address to the LAN2 of the monitor and another to each of the Simon iO WiFi devices, as well as to the SimoniO HUB if it exists.
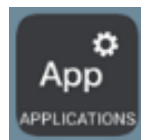
INSTALLING THE Simon iO APPLICATION ON THE WIT MONITOR

    i.   Download the installation file image from this link. The file contains the MEET System Upgrade software, and the installation and uninstallation images (if necessary) of the Simon iO and Set Orientation applications (this app is used to display the Simon iO application in landscape format, as by default it only has the display configuration for Smartphone in vertical format).

    ii.   Open the MEET System Upgrade Tool software included in the downloaded file and select each of the installation images (1) as IMG1 and IMG2 (the order does not matter), set IP Range to run a search for the WIT monitor in the specified range of IP addresses: 192.168.77.101-105 (2). In case of installing the image on only one monitor, the second value matches the first one.

Note: *If you want to install the app store to automatically update the Simon iO version, download your image from this link: link, select the image to install Aurora as IMG3 and all images will be uploaded at once. Instructions on how to set up the app store are included in the link.*

    iii.   Press "Start" to start the search for WIT monitors in the selected range.
             Once detected, the APP will be installed, and the monitor will restart after the process is complete.

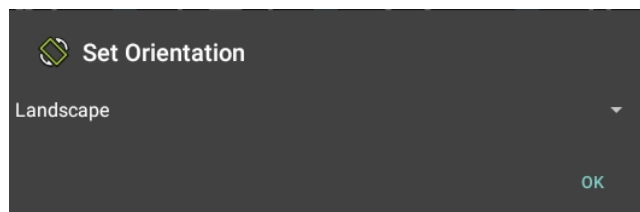   iv.   In the Monitor go to the installer menu (default code 6666) and open the applications menu.

    v.   Press the right arrow to display the installed apps and select the "**Set Orientation**" and "**Simon iO**" app in the first column and assign an icon to it. Save the settings.

             The Set Orientation application and Simon iO will now be displayed in the main menu of the monitor.

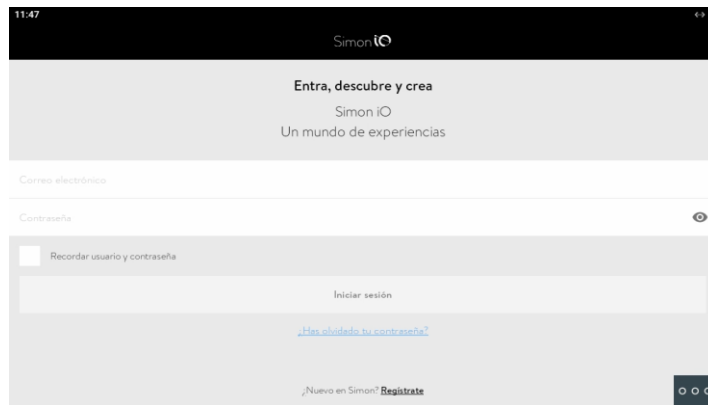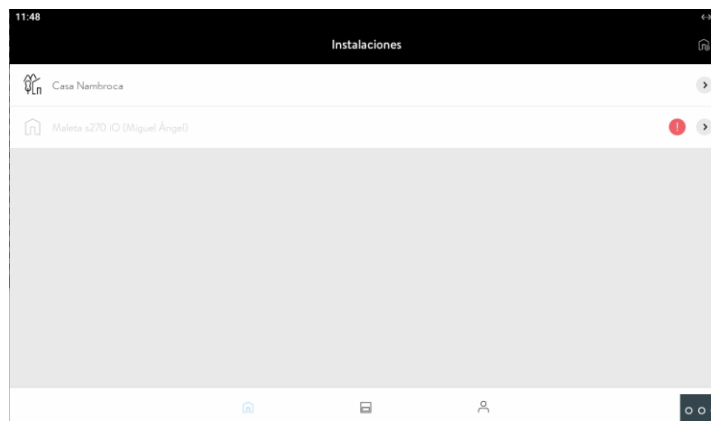vi.   Open the Set Orientation app and choose Landscape mode.

Press OK.

vii.   Deselect the Set Orientation app in the list of applications in the installer menu so that it does not appear in the main menu, as it will no longer be necessary to interact with it.
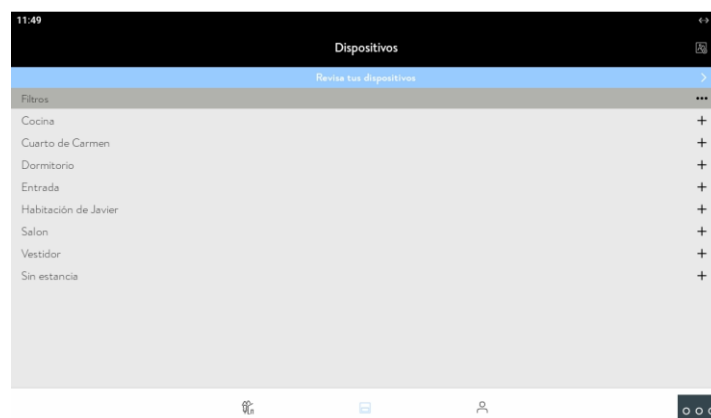
viii.   Open the Simon iO app:

ix.   Enter the username and password with which the installation was registered in the Simon Cloud, via the Simon iO app on the Smartphone.
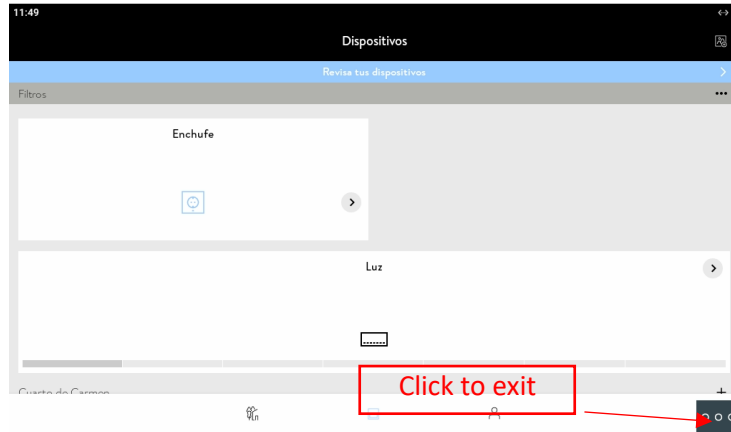
x.   The menu with the manageable houses and the available options will be displayed.

Select the dwelling and choose Devices.

To exit the application, click on the icon at the bottom right (3 dots) and then select the icon in the centre (circle). The next time the application is opened, it will go directly to this last screen.

Click to exit

OPERATION

Each time the Simon iO icon is clicked, the monitor will connect to the cloud and the previous screen will be displayed.

If a call is received from the entrance panel, the display will show the communication interface with the entrance panel. Once the conversation is finished, the display will automatically return to the Simon iO app. The display will turn off after 60 seconds without activity. To reactivate it, touch the screen and it will synchronise again with the Simon iO cloud.

OTHER CONSIDERATIONS

- The possibility to install third-party apps is only available with WIT 14721 (7") or ref.14831 (10") monitors.
- **The integration referred to in this manual is based on version 3.5.3 (Android) of the Simon iO APP. Therefore, FERMAX does not guarantee the successful integration of the WIT monitor with later versions of the APP that may be developed in the future.**