CASE STUDY

MEET-AJAX integration

Description
This document summarizes the steps to follow to integrate a MEET monitor with the Ajax Security alarm system

V1.1

INDEX

INTRODUCTION

The aim of this document is to explain the steps to follow in order to manage an AJAX alarm installation from MEET monitors. In this way, the same screen that is used to receive the video door entry call is used to manage alarms: arming, disarming and displaying events.

MATERIAL REQUIRED

Any Fermax MEET outdoor panel can be used for this integration. In the case of a single-family dwelling, the MILO panel with one line (single pushbutton) will 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 it does not support PoE, as well as the electric lock.

Inside each unit:

- Ref. 14721 or 14831 / Monitor WIT 7 or 10'' (Android 10)
- Ref. 9541 / NEO/WIT Monitor Connector
- Ajax alarm system with hub

BASIC SCHEME

A) Single-family installation.

The usual installation scheme of the MEET system is used, with the only additional requirement of connecting the MEET panel and monitor to the local network of the home installation, where the Ajax hub is optionally installed (it can be connected via SIM as well).

Several Meet 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 alarms in all of them. The RJ-45 Meet connection with static IP is used in the monitor.

B) Building installation (MDU)

The installation is similar to the single-family installation, but adding as many monitors as there are dwellings. In this case the monitor must be reference 14831 in order to isolate the lan installation of the building from that of the dwelling, so that the networks of each dwelling are kept secure.
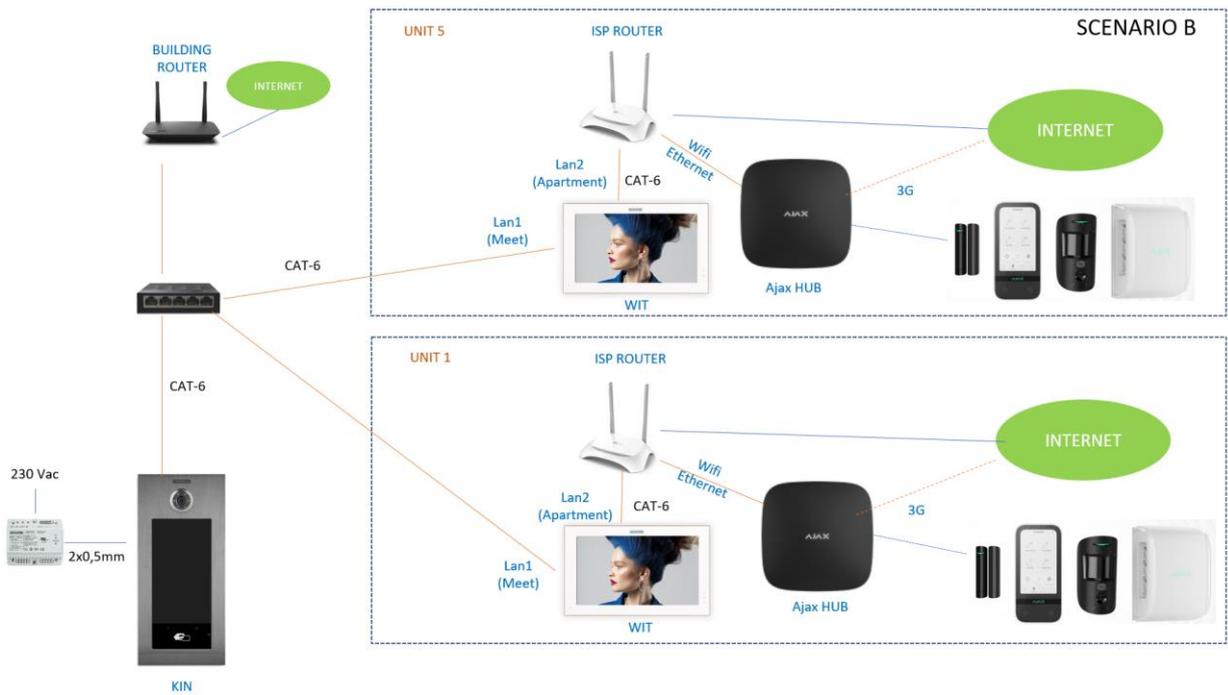
In new construction it is possible that the ISP Router is not available, so that everything can be tested and prepared for the connection to the Ajax hub, so the Ajax user registration must be done once the internet connection is available.

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

No special requirements, following the installation protocol of a Meet system's outdoor panel and the corresponding part of the Ajax HUB.
In a single-family installation, connect the outdoor panel, monitor and Ajax HUB to the ISP router.
In a building installation, a network will be created for the building, with its separate ISP router if call forwarding to the MeetMe App is desired. Lan1 of the monitors will be connected to the building network. Lan2 will be connected to the router of each flat, together with the Ajax HUB if connected via the router.
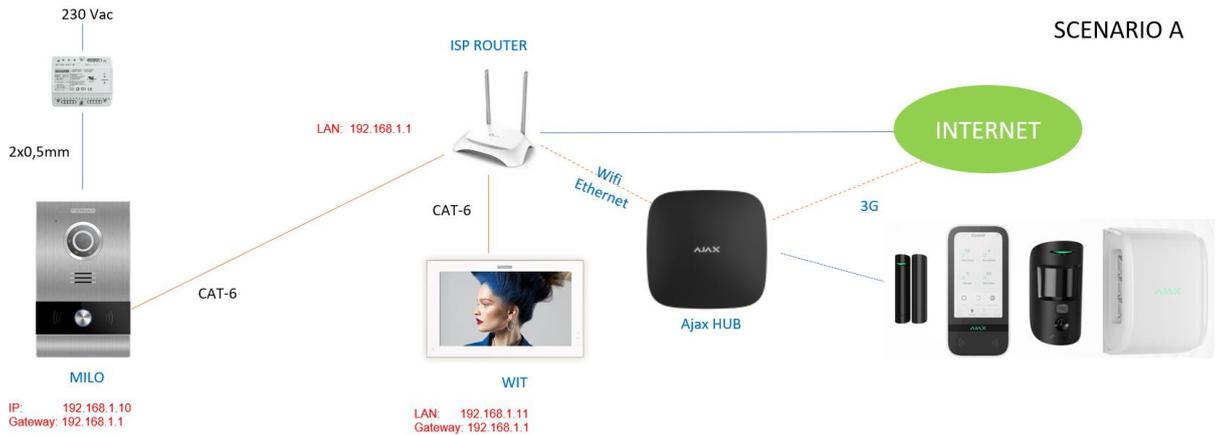
CONFIGURATION

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 call operation is independent of the home automation system.
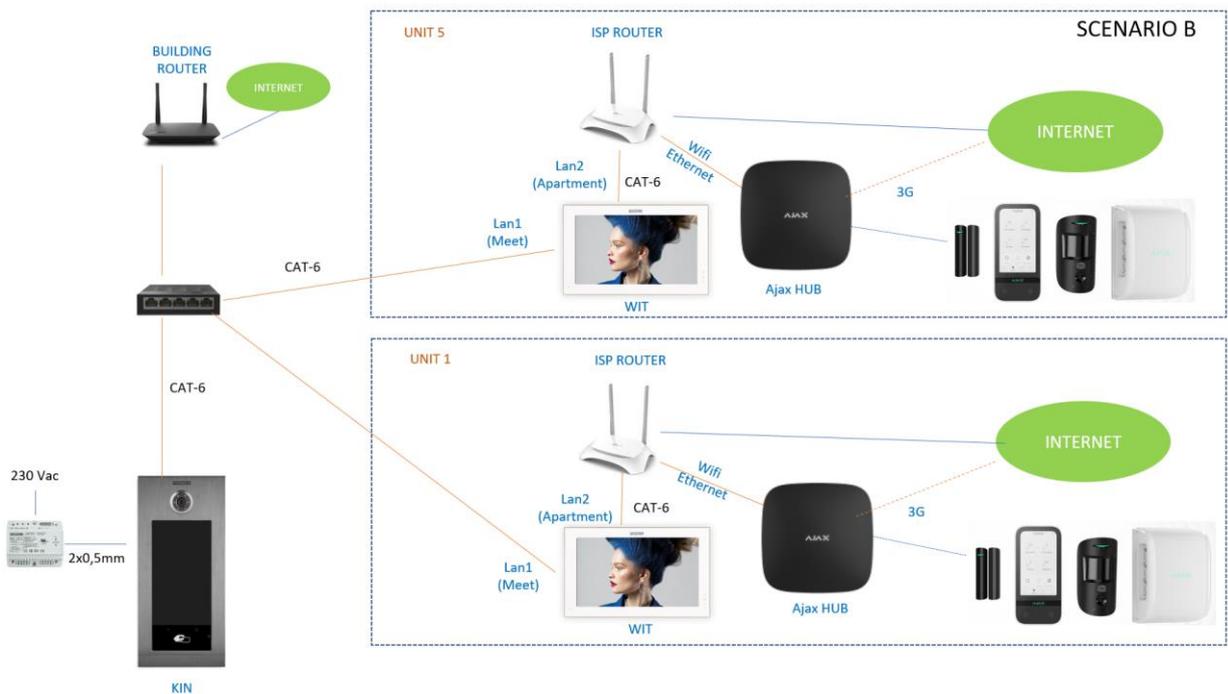A) Single-family installation:
Assign an IP address to the entrance panel and the monitor within the home router network (e.g. 192.168.1.10 panel and 192.168.1.11 monitor) and as Gateway the IP address of the router (192.168.1.1).

230 Vac

2x0,5mm

CAT-6

MILO

IP: 192.168.1.10
Gateway: 192.168.1.1

ISP ROUTER

LAN: 192.168.1.1

INTERNET

Wifi
Ethernet

CAT-6

3G

WIT

LAN: 192.168.1.11
Gateway: 192.168.1.1

Ajax HUB

B) Building installation (MDU)

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 address of the building router (192.168.1.1).

BUILDING
ROUTER

INTERNET

230 Vac

2x0,5mm

CAT-6

CAT-6

KIN

UNIT 5

ISP ROUTER

SCENARIO B

INTERNET

Lan2
(Apartment)   CAT-6

Wifi
Ethernet

3G

Lan1
(Meet)

WIT

Ajax HUB

UNIT 1

ISP ROUTER

INTERNET

Lan2
(Apartment)   CAT-6

Wifi
Ethernet

3G

Lan1
(Meet)

WIT

Ajax HUB

NETWORK OF EACH DWELLING

-   Enable DHCP on the home router and assign addresses starting from 192.168.X.100

AJAX APPLICATION INSTALLATION ON MEET MONITOR

i. Download the application image from this link. The file contains three images for installing and uninstalling the Ajax app, Set Orientation and microG. Set Orientation is used to display the Ajax application in landscape mode, as by default it is rotated 90º on the screen. The microG app is used to include Google services on the monitor as required by the Ajax application.

ii. Open the MEET System Upgrade Tool software included in the downloaded file and select each of the **installation** images (1) as IMG1, IMG2 and IMG3 (the order does not matter), set IP Range to run a search for the MEET monitor in the indicated 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.
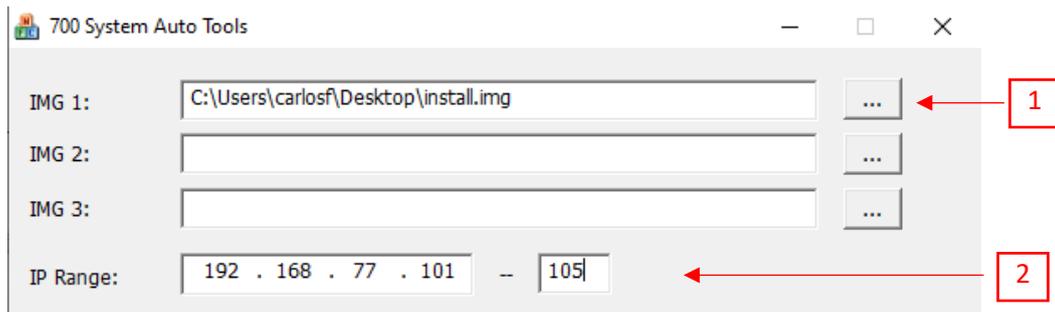
iii. Press "Start" to start the search for MEET monitors in the selected range.
Once detected, the APPs will be installed, and the monitor will restart after the process is complete.

iv. In the Monitor go to the installer menu (default code 6666) and open the applications menu.
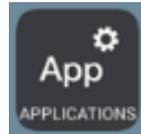
v. Press the right arrow to display the installed apps and select the "Set Orientation" and "Ajax" app in the first column and assign an icon to it. Save the settings.

vi. The Set Orientation application and AJAX will be displayed in the main menu of the monitor.

vii.   Open the Set Orientation app and choose Landscape mode.
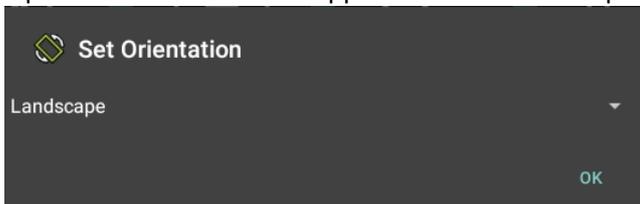
Press OK.

viii.   Deselect the Set Orientation app in the list of applications in the installer menu so that it does not appear in the main menu.

ix.   To install the Google services for the Ajax app to work correctly on the monitor download the instructions from this link: MicroG.rar and follow the installation process described in the document.
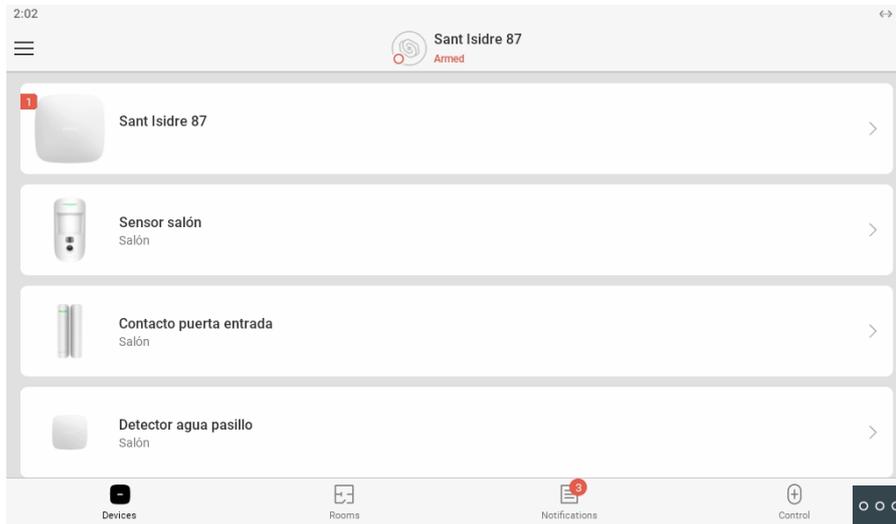
x.   Open the Ajax app again:

xi.   Enter the username and password generated from the Ajax Pro installer app. The menu with the homes that can be managed, and the available options will be displayed.
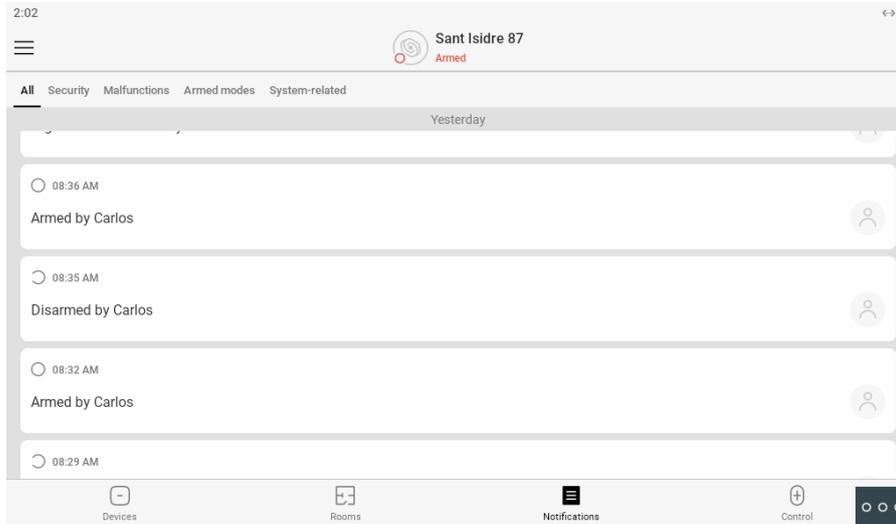
Alarm control:
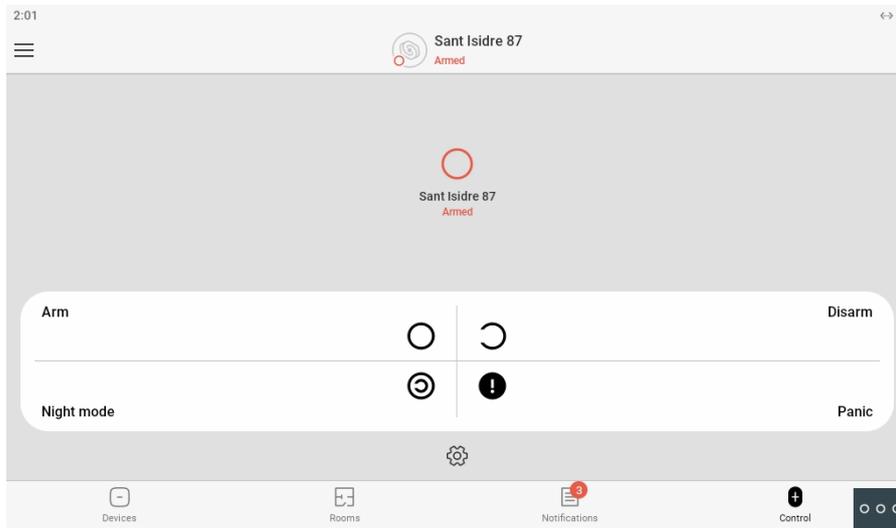
List of devices:

Events: (the time displayed in events does not reflect the daylight saving time setting)

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

OPERATION

Each time the Ajax icon is clicked, the monitor will connect to the Ajax cloud and the previous screen will be displayed. You can change the alarm status from the monitor screen as you would from your smartphone. Likewise, any changes made on the smartphone or other monitor with the Ajax app will be automatically refreshed on the monitor screen.

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

OTHER CONSIDERATIONS

- The Ajax gateway only works with monitor ref. WIT 14721 (7") or ref.14831 (10").
- **The integration referred to in this manual is based on version 3.5 of the Ajax Security System APP. Therefore, FERMAX does not guarantee the successful integration of the MEET monitor with later versions of the APP that may be developed in the future.**