# **CASE STUDY**

# **MEET – BASALTE INTEGRATION**

#### Description

This document describes how to configure the MEET subsystem and the BASALTE subsystem to manage home automation and calls on both the MEET screen and the ELLIE screen.

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# **INTRODUCTION**

In residential or tertiary installations with KNX home automation, control screens from the same manufacturer as the rest of the control devices are usually used for aesthetic reasons. This type of display usually incorporates a SIP client that allows it to be integrated with other video communication elements. This is the case of the ELLIE screen from BASALTE, which can be integrated in a MEET video door entry system, acting as a compatible home terminal.

It is also possible to install the BASALTE application on the WIT MEET monitor in order to manage the KNX home automation from this monitor and to receive calls from the outdoor panel.

In this case we will explain how to configure the MEET outdoor panel and the ELLIE display so that panel calls can be made to the display and how to load the BASALTE application on the WIT monitor.

# MATERIAL REQUIRED

Any Fermax MEET outdoor panel can be used for this integration, as they all support SIP protocol. In the case of a single-family home, the one-way MILO panel (a 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 strike.

To load the Basalte Home application on the Wit monitor, the part number must be 14721 (7") or 14831 (10"). The part no. 14831 is mandatory for building installation.

## DIAGRAM

#### A) Single-family installation.

The usual MEET installation scheme is used, with the only additional requirement of connecting the outdoor panel to the local network of the home installation, where the Ellie display and the Basalte server (Core Server or Mini Server) are installed. All equipment must be assigned a static IP address.



The WIT monitor in the installation is optional, in case additional monitors capable of receiving the outdoor panel call are desired, or necessary when instead of an Ellie display the WIT display is to be used.

The internet connection allows call forwarding to the MeetMe application free of charge if a WIT monitor is installed.

#### B) **Building installation**

The installation requires a 10" WIT monitor in each house, which has a double RJ-45 port to be able to isolate the local networks of each house from each other. This also isolates the building network from the home network and provides greater security.



If call forwarding to the MeetMe app is desired, an internet connection is required in the building.

# **INSTALLATION**

No special requirements, following the installation protocol of a door station (and monitor) of the Meet system and the corresponding part of the Basalte system.

# CONFIGURATION

#### OUTDOOR PANEL

To configure the outdoor panel, use a browser and access the IP address assigned to it, by default 10.1.0.1 (building entrance panel) or 10.1.1.2 (single line panel) and enter the user *admin* and default password *123456*.

The following steps will be followed:

#### 1) Network settings

The IP address within the local network assigned to the entrance panel and the rest of the network parameters: mask, Gateway or router for internet access will be indicated. The software IP does not need to be changed if there is no building administrator using the Meet management software (MMS).

In a single-family installation, one IP address will be assigned to the entrance panel and another to the WIT monitor (if used) within the range of the rest of the elements in the home. In a building installation, one IP address will be assigned to the entrance panel and another to each of the WIT monitors, within the same range.

	D DOOR EN	TRY SYSTEM	
DEVICE			NETWORK SETTINGS
GENERAL			
NETWORK	IP:	192.168.1.214	
ACCESS	MASK:	255.255.255.0	
FACIAL RECOG.	GATEWAY:	192.168.1.1	
LIFT	SOFTWARE IP:	192.168.1.220	
IP CAMERA	SW. PIN:		
SIP		CAVE	
SIP TRUNK		SAVE	
SIP CALL			
ADVANCED			
PINCODE			
WECHAT QR			
RESET			

After saving this information, it will be necessary to connect again to the web server of the entrance panel via the newly assigned IP address in order to continue the configuration.

#### 2) <u>General configuration</u>

Parameters such as language, sound volume and the resolution of the video camera on the panel are specified. It is important to set the minimum resolution to 320x240 if the Ellie screen is to receive the call, so that the image is not slowed down. If a WIT monitor will be instead used to receive the outdoor panel call, it is recommended to choose the maximum resolution (1024x720) for better video quality.

For the 1-line panel the configuration page is as follows:

# FERMAX

#### MEET VIDEO DOOR ENTRY SYSTEM

DEVICE			GENERAL SETTINGS
GENERAL			
NETWORK	TYPE:	1W PANEL V	-
ACC	BLOCK:	1	E
	APARTMENT:	1	
SIP	DEVICE NO .:	1	
SIP TRUNK	DEVICE TAG:	MILO 1L	(≦16 CHARACTERS)
SIP CALL	LANGUAGE:	ENGLISH V	
	PANEL VOLUME:	1 ~	1
ADVANCED	DOOR OPEN VOICE:		
PINCODE	VIDEO RESOLUTION:	320x240	
RESTORE	SIP DIVERT MODE:	PARALLEL CALL	
	DATE FORMAT:	DD/MM/YYYY	1
	DATE:	01 / 01 / 2018	
	TIME:	06 : 39 : 51	
	TIME ZONE:	GMT+01:00 ~	1

SAVE

#### For the building panel is this one:

DEVICE		GENERAL SETTINGS
GENERAL		
NETWORK	TYPE:	BLOCK PANEL-DIGITAL
ACCESS	BLOCK:	1
FACIAL RECOG.	DEVICE NO .:	6
LIFT	DEVICE TAG:	MAIN ACCESS (≦16 CHARACTERS)
	KEYPAD:	
	LANGUAGE:	ENGLISH 🗸
	PANEL VOLUME:	1 ~
SIP TRUNK	BACKGROUND:	DARK COLOR 🗸
SIP CALL	BRIGHTNESS:	250 🗸
ADVANCED	VOICE SYNTH.:	
PINCODE	RESOLUTION:	640x480 🗸
WECHAT QR	SIP DIVERT MODE:	PARALLEL CALL
RESET	SCREENSAVER:	(PNG,600*1024)
		Seleccionar archivo Ninlec. IMPORT EXPORT DELETE
	HELP:	✓ (PNG,600*1024)
		Seleccionar archivo Ninlec. IMPORT EXPORT DELETE
	STANDBY	CALL 🗸
	CONCIERGES:	2
	CONCIERGE 1:	9901
	CONCIERGE 2:	9902
		DAVE

3) <u>Call forwarding service configuration</u>

This step is required if call forwarding to the MeetMe app is to be performed to receive the call from the outdoor panel. If it is not used, the option ACTIVATE SIP will be left disabled.

In the **SIP** Configuration section, indicate the Fermax SIP server and the user and password assigned to the outdoor panel, which is indicated on the label attached to it. Next, check whether the panel is correctly configured in the server by clicking on the VIEW SIP STATUS link. If REGISTERED does not appear, check the information entered.

DEVICE			
DEVICE			011 021111100
GENERAL			
NETWORK	ENABLE SIP:	✓ <u>SEARCH SIP STATUS</u> ● SIP REGISTERED	
ACCESS	SIP SERVER:	sip:sip.fermax.com	
	DOMAIN:	sip.fermax.com	
FACIAL RECOG.	OUTBOUND:		
LIFT	STUN IP:		
IP CAMERA	STUN PORT:	5060	
SID	H.264:	102	
JIF	SIP USER:	0011825	
SIP TRUNK	SIP PASS:		
SIP CALL	CONVERSATION:	120s 🗸	
ADVANCED	RING TIME:	30s 🗸	
PINCODE		CAVE	
		SAVE	
WECHAT QR			
RESET			

Note: The SIP TRUNK option should not be used in this type of application.

Now you have to indicate the licence for the MeetMe App.

3.1 WIT monitor is installed.

The Wit monitor includes a licence for call forwarding. The monitor must be configured with this licence. In the ADVANCED section of the monitor's web server, the extension and server are configured with the text: 'sip:user@sip.fermax.com', where user is the licence number.

FERMA	AX	
	DOOR ENTRY SY	YSTEM
DEVICE		ADVANCED SETTINGS
GENERAL		
NETWORK	SIP EXT.:	1 •
IP CAMERA	URL:	sip:909284@sip.fermax.com
SIP	ONU(GPON):	
ADVANCED	DTMF UNLOCK:	
ACTUATORS	DTMF KEY:	#
VERIFICATION	NUMBER OF DOORLOCKS.	
PINCODE		
PESTOPE		SAVE

#### 3.2 No WIT monitor installed.

It will be necessary to purchase a call forwarding licence ref. 1496. In the call configuration step in the outdoor panel, the call to the Ellie screen and also to this licence will be included (see next section).

- 4) <u>Receiver configuration</u>
  - a. <u>One-line panel.</u>

If you are going to receive the call on the Ellie screen, in the SIP CALL section you must indicate the receiver associated with the call of the individual pushbutton of this panel. Indicate the flat '1' (or the one configured in the GENERAL tab) and as the assigned number, the value: <u>sip:IP Ellie screen</u> and click on Save. The table will be automatically filled in.

DEVICE					SIP CALL S	ETTINGS
GENERAL						
NETWORK	APARTMENT:	0				
ACC	NUMBER:					
SIP	DELETE:	SAVE				
SIP TRUNK						
SIP CALL	APARTMENT	NUMBER	APARTMENT	NUMBER	APARTMENT	NUMBER
ADVANCED	1	sip:192.168.1.228				
PINCODE						
RESTORE						

\*In this example, the Ellie display has the IP 192.168.1.228.

The WIT monitor in the home (if any) should be assigned this address '1' to receive the call at the same time as the Ellie display.

If call forwarding to the MeetMe app is also desired, and there is no Meet monitor in the home, the app account purchased with licence ref. 1496 will be added to the line, separated by a ';':

sip:192.168.1.228; sip:08981263@sip.fermax.com

b. Building panel.

There is no need to configure anything on the building panel as the call reception is done on the WIT monitor and the call forwarding is configured on the monitor as discussed in section 3.1.

5) <u>Ellie screen configuration (only for single family)</u> The configuration of the Ellie display shall be done using the BASALTE Studio software.

5.1) First, create the project and add the controller (1), the Ellie display (2) and the 2N cloud proxy (3). Optionally, the panel's camera (4) can be configured as a CCTV camera. The Ellie display and the server must have a fixed IP.

Basalte Studio			- 5 X
Project Year Jacob Jacob Project Connections Music Configuration	Beam Logic Profiles		All Social Control of
Search .	Basalte Home Project		Library Discovery
• E Produ Fermas	Brokest Configuration		- Con
	Project Configuration		
a Constant Deserved	Nam	Prueba Fermax	(E) Core Plus
	Local		E Core SA
	Time	one Europe/Madrid	* User Interface
	no mane local	Spanish / Spain	
- Lin Living Room	Lemp	Tature Unit Celsius	CE Lise Si
	Feat	es V Home Scenes L. Timers	* Comfort * Features
		odifed Wednesday, 19 de July de 2003 13:51.49 (Para de verans raman	(ETC) Generic Device
- Co An the			🖾 Scene Controller
( <u>mail</u> Curtains			
Cimate			C DA Light
CAN FERMAX			IDX Shades
			(TE) KNK Thermostat
			100 KNX Weather Station
			* Philps Hue
			EEE) Philips Hue Bridge
			() Philips Hue Light
			Cool Automation     Fill CoolAutomation
			(TE) Constants Surgered
			* Labon
			Auro R5485
			Lutron HomeWorks
			CEB Lutron Light
			1019 Lutron Phantom Keypad
			(Win) Lutron Shades
			= Beam
			E Beam Connect
			ECO Beam Node
			* Audio / Video
			TA seeuk [31]
- +			(127) Arms 54
			Connected to Basalte Live

5.2) 2N proxy configuration. The IP address of the outdoor panel must be indicated (SIP Proxy Address). The door opening using DTMF tones does not have to be marked as they are not transmitted using the protocol used by Fermax. Instead, a KNX relay must be used to open the door.



5.3) Ellie screen configuration. It must be indicated that it can receive Intercom calls and enable integration with the entrance panel. Indicate that the gateway of the outdoor panel is the 2N Local System to allow P2P calls without the need for a SIP server. Optionally choose to play a melody on an auxiliary audio device.

- Basalte Studio		- 6 X
Project View Jools Help		
Project Connections Music Configuration	Deam Logo Podies	Al- Go Live
Search	Ellia	
- Prueba Fermax		
8CH Home Scenes	Device Configuration	
- 🏠 Main House		
* IF Ground Floor	Name Ellie	
- Device Back	V Can receive calls from other Ellie/Lena/Lisa devices	
EEO Core Mini	Can call other Ellie/Lena/Lisa devices	* User Interface
CED 2N Cloud Provid	Default source No items available	
- E Luiss Room	Door stations I Enable door station integration	
En Contralina	✓ Can access home page	U lia
tere controller	Permissions	Contort     Features
		GTL Generic Device
Spot light	Loor stations	
(mn) Curtains		
(TH) Climate	Audio Alett Campana *	KNK Light
CAM FERMAX		(IIII) KNUK Shades
		TH KNX Thermostat
		EMB KNX Weather Station
		Philips Hue
		HUE Philips Hue Bridge
		LAM9 Philips Hue Light
		Cool Automation     DIM CoolMaster Hub
		(The Control Marter Thermostat
		* Lutron
		Emili Auro RS485
		UT Lutron HomeWorks
		EUR Lutron Light
	Network Configuration	ETR Lutron Phantom Keypad
	MAC address 38 B1 9E 4E 1F BE Discover	(IIIN) Lutron Shades
		Beam Connect
		ECO Beam Node
		<ul> <li>Audio / Video</li> <li>Asano</li> </ul>
		ID Asano A3
- +		Terri Arman Ad
		Connected to Basalte Live

5.4) Setting up the auxiliary device to play the melody:



5.5) Configuration of the outdoor panel camera to display it as a CCTV camera. The user 'admin' and the password for web access to the outdoor panel ('12346' by default) must be entered. As RTSP URL the string: rtsp://IP\_plate:8554/ch01, where the IP\_panel is the P address of the panel.

- Basalte Studio					- a x
Project Yiew Tools Help		0			•
Project Connections Music Configuratio	n Beam Logic I	raties			Go Live
Search	IP Camera				
- Prueba Fermax					
8009 Home Scenes	Device Configura	tion		* Core	
<ul> <li>(n) Main House</li> </ul>	Name	FERMAX		650 Core Maria	
✓ Ground Floor	Perition			Core Plus	
- 🗮 Device Rack				User Interface	
6RV) Core Mini	Usemame	admin		UT Elie	
TEL 2N Cloud Proxy	Password			(UD Lena	
- 🕞 Living Room	Local MJPEG URL			COD Lies	
Scene Controller	Local RTSP URL	rtsp://192.168.1.31:8654/ch01		<ul> <li>Comfort</li> </ul>	
COT Ellie	Remote MJPEG URI			▼ Features	
EXIP Spot light	Demote OTCO LIDI	real (operator)		CTL) Generic Device	
(WW) Curtains	Remote RisP URL			Scene Controller	
TH Climate	Open button control	ion control None		* KNX	
FINI FERMAN	Light button control - None -				
				(Til) Mill Thermodel	
				(Th) Knox mermostat	
				Obiling Hus	bon
		* Prings Ture Filia Philips Hug Bridger		e .	
		Employee in the second			
				<ul> <li>Cool Automation</li> </ul>	
				CoolMaster Hub	
				TH) CoolMaster Them	
				▼ Lutron	
				ENS Auro RS485	
			UT Lutron HomeWor		
				Lutron Light	
				ETN Lutron Phantom I	
				(MIN) Lutron Shades	
				* Beam	
				Euro Beam Connect	
				NOO Beam Node	
				<ul> <li>Audio / video</li> <li>Asano</li> </ul>	
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				A (	Connected to Darabe Live

# **OPERATION**

To call a specific dwelling, press the individual button (single line panel) or enter the associated call code and confirm with the bell button or the off-hook icon on the KIN panel.

The panel will generate the call to both the home's Meet monitor (if present) and the Ellie screen and MeetMe App (if configured), which will announce the call from the panel along with the image captured by the camera.

The Ellie screen will play the call melody and display the image captured by the outdoor panel camera and icons with the following options:

- Pick up (green), to open the audio channel.
- Hang up (red colour) to end the call.



The conversation lasts a maximum of 2 minutes. Once the off-hook icon has been lifted, only the red hang-up icon will be displayed, and the conversation can be ended by pressing it.

If the call is received on several devices (monitor, screen, app), the first one to answer the call will stop the ringing melody on the other devices and it will no longer be possible to answer the call from them.

You can auto-start the camera (without audio) from the camera interface by clicking on the Fermax icon (or as configured).

The defined KNX relay icon shall be used for door opening.

### DETAILS

• The door can only be opened if a KNX relay has been defined.

### LOADING THE BASALTE APP ON THE MONITOR WIT

Download the file from the following <u>link</u> and connect to the IP video door entry network where the MEET Monitors are located.

Open the MEET System Upgrade Tool software, select the Basalte\_Install\_A10 file as IMG1 and set the IP address range of the monitor(s), in the example 192.168.1.83-83 (single monitor).

船 700 System	n Auto Tools	-		×	
IMG 1:		_			IMG to install from the APP
IMG 2:					ING to install from the AFF
IMG 3:					
IP Range:	192 . 168 . 1 . 83 83		-		MONITOR IP

Press "Start" to start downloading the application to the monitor(s).

Once installed, the monitor will reboot.

Monitor > Go to the Installer menu (password 6666) and open the APPs menu.



Select the APP "Basalte", assign it an icon and mark it. Save the changes.

The application will be displayed on the home screen of the monitor:



Once opened, the application will automatically detect the core server and display the main menu.



You can navigate through the different screens to manage the KNX home automation system:







\*The lower menu can be hidden by clicking on the 3 dots at the bottom right. To exit the application, click on the icon on the left of this menu.

The application can remain active at all times. When a call is received it will be interrupted momentarily to answer the call and, at the end of the call, it will be displayed again at the point in the menu where it was interrupted. The monitor has a 60 second return to idle time in which the screen is turned off, if not acted upon, to maintain the durability of the TFT and reduce power consumption. Touching the screen again will return the application to the same point where it was displayed before the sleep.