# **CASE STUDY**

**MEET-THINKNX** Integration

### Description

The following document tries to summarize steps to follow to integrate MEET IP Door Entry System & THINKNX Micro server

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### INTRODUCTION

The purpose of this document is to set out the steps to be followed to:

- 1. Integrate the outdoor panel call in the ThinKNX UP APP, via SIP server available on the ThinKNX Micro device.
- 2. Control of a KNX installation from MEET monitors, via the visualisation of the ThinKNX Micro itself.

### MATERIAL

- Ref. 14831-14833 / Monitor WIT 10" Android 10
- Ref. 95411 / NEO/WIT Monitor Connector
- Ref. 9533 / MILO Panel 1L
- Ref. 1586 / Switch 4 PoE ports
- MICRO THINKNX Gateway

Optional material in case, in addition to opening the main door (e.g.: pedestrian access door) controlled from the panel itself, it is desired to manage a secondary door (e.g.: garage door):

• Ref. 1490 / External door opener MEET

### **BASIC SCHEME**



### CONFIGURATION

1. Integration of FERMAX entrance panels in THINKNX UP application

Summary



- Entrance panel registered on SIP server ThinKNX Micro as extension 901
- SIP server ThinKNX Micro contains **Ring group 9001** with a set of extensions to call (100, 101...), assigned to certain users ("thinknx1", "thinknx2" ...).
- When calling from the door station, extension 901 will call Ring group 9001, which contains the different extensions associated to the users. Those who are registered on the SIP server at that time will receive the call.

#### Audio integration

#### ThinKNX Micro SIP Server

1. Thinknx Configurator > System > System > Right click > Add object > Voip PBX



2. Select "Voip PBX" and set up users, call groups and intercoms

Interface System	PBX Accounts Editor	
System  Control Services  Con	Create extensions 100 and 101 and label them as "User 1 and 2".	2 I     Image: Constraint of the second
Label Voip PBX	- 1-Ring Group PEX Assign the two users to call group 9001	Let Ring Group PBX 9001 90001 9001 9001 9001 9001 9001 9001 9001 900
PBX port 5060 // Accounts PBX (Collection) Intercom devices (Collection) Intercom devices (Collection)	terret of the second se	Intercom Generic IP Doorstation IX 901 execute System-Start audio notification

3. Associate extensions and user. Example user "thinknx" (password thinknxPass1) associated to extension 100:

Users Editor: System	Ľ	Interface System	× 1
Create or delete groups or users with the change group.	corresponding buttons and drag users to	41100	
5	Restore page after c Enabled Sp Ringtone Doorcom_1 Registration Enabled System PEX Enabled User PEX Usuario 1 Inschity Timer Disabled Stewartschafter Enabled	Z*   Automatic connection Cloud connection policy External IP address Server client port Local IP address KNK address	Enabled Local and Clour 192.168.1.226 7550 192.168.1.226
	Name of the user	KNONet/IP interface System name Location Latitude Longitude	Disabled Valencia 0
	V OK X Cancel	Send command after reboot Automatic Reboot Time server	Disabled Disabled Disabled
		Date group	UPSW1.2 + UP
		Users and Groups	Click to edit

#### Panel Milo 1L

1. Web server > General > Configure MEET P2P call (Block = 1; Apart. = 101)

DISPOSITIVO			CONF
GENERAL			
CONFIG.RED	TIPO:	PLACA INDIV.	~
ACC	BLOQUE:	1	
	APART.:	101	
SIP	Nº DE EQUIPO:	1	
SIP TRUNK	TAG DE DISPOSITIVO:	MILO 1L	

2. SIP > Register the panel on the ThinKNX Micro SIP server as extension 901.

DISPOSITIVO				
GENERAL	Ι.			
CONFIG.RED		ACTIVAR SIP:	VE	R SIP STATUS
ACC		SERVIDOR SIP:	sip:19	2.168.1.226
		DOMINIO: 192.168.1.226		68.1.226
SIP		IP STUN:	5060	
SIP TRUNK	I L	PUERTO STUN:	5060	
SIP CALL		H.264:	102	
		USUARIO SIP:	901	
AVANZADO		PASS SIP:		
CÓDIGO PIN	С	ONVERSACIÓN:	120s	~
RESTAURAR	TON	Io de llamada:	30s	~

3. SIP Call > Apartment 101 = Call group call 9001 from SIP ThinKNX server

SIP CALL	APARTAMENTO	NÚMERO
AVANZADO	101	sip:9001@192.168.1.226

#### Video integration

#### ThinKNX Micro SIP Server

Interface > Create a new function "Intercom", define a new page "Page 1" and add a new object "Camera" to it. Set the parameters



#### Door opening control

ThinKNX Configurator > Interface > "Intercom" function > Add object > "Generic command" > Command = Send DTMF tone during conversation > DTMF Tone = "#"



In case there is a second door (e.g., garage), add a device ref. 1490 / MEET external relay to be connected to the MILO 1L panel and include a new button via ThinKNX Configurator that sends the DTMF tone "0".

#### 2. THINKNX MICRO web server integration in WIT monitor

#### **Summary**



- For the ThinKNX UP APP installed on WIT monitor we must create one user.
- ThinKNX Configurator: "meet" user creation (SIP client disabled, direct call via MEET P2P)
- Initial connection of ThinKNX UP APP to laptop with ThinKNX Configurator software for programming via local connection.

#### **ThinKNX Micro visualisation**

 Thinknx Configurator > System > System > Users and Groups > Create a new user "meet" (password meetPass1) and verify the "SIP Client" option is disabled for this user. Panel to monitor call will be made directly via MEET call.

Users Editor: System Create or delete groups or users with the	corresponding buttons and drag users to	Voip PBX - Voip PI WebUI - WebUI	EX .
change group.	Sand on Cick Disabled		
5	Sound of Ucc. Disabled Block Swipe Disabled Show Status Ber Disabled Refuel ong Desc Disabled Show Scheduler Einabled Show scheduler Einabled	Automatic connection Cloud connection policy External IP address Server client port Local IP address	Enabled Local and Cloud 192.168.1.226 7650 192.168.1.226
	Name Name of the user	KNXXVetIIP interface System name Location Latitude	Disabled Valencia D
	✓ OK X Cancel	Longtude Send command after reboot Automatic Reboot Time server Time group	0 Disabled Disabled Disabled
		Date group Licenses Users and Groups Endeding Files	UPSW1.2 + UPSW1.3 + UPSW3 Click to edit
		Security Passwords	(Collection)

 Interface > "Intercom" function > Restrictions > Deactivate this function for "meet" user. It should only appear on smartphones/tablets with the ThinKNX UP APP installed, not in MEET monitors.



#### WIT Monitor

- 1. Connect PC to the same network as the WIT monitor.
- 2. Download ThinKnx app: Link
- 3. Open the MEET System Upgrade Tool software, select the THINKNX UP APP (1) and set IP Range to the IP address of the WIT monitor: 192.168.1.83-83(2).

船 700 System Au	to Tools —	×
IMG 1:		 ] 1
IMG 2:		 
IMG 3:		
IP Range:	192 . 168 . 1 83 83	

4. Press "Start" to search for MEET monitors in the selected range. Once detected, the APP will be installed and the monitor will reboot.

6. Select the "THINKNX UP" app and assign an icon to it. Save the settings.

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



7. ThinKNX Configurator > Deploy > Web server for ThinKNX apps > User "meet" > OK



8. THINKNX UP (MEET monitor) > Open the APP, select the local configuration download option (1), enter the IP address of the laptop - e.g. http://192.168.1.6:5050- with the ThinKNX Configurator (2) and then click "Download" button.







ThinKNX Configurator software will display a message indicating that the project has been successfully downloaded in WIT monitor:

Client connection
$\Box$
Client 192.168.1.213 has successfully downloaded project!
Close

9. APP > Settings > Check the option "Search for local server".

0.10	
< C	, i i i i i i i i i i i i i i i i i i i
Demo (meet) : 000715-2014-09 Deamel: 11/19 9:17 AM	General settings
	Lock Settings Page with PIN
	Enable geolocalization
	Search for local server
	Always ask which project to open at startup
	Show DEMO project
	Open the projects in DEMO mode
	Appearance
	000

- 10. The first time you log in you will be prompted for a username and password. Use the user "meet" (SIP client disabled).
- 11. Example of ThinKNX UP visualisation on WIT monitor:



# TESTS

1. Call from outdoor panel to WIT monitor and ThinKNX UP smartphone APP (user "thinknx")

	Steps	Result	OK?
1	Open APP ThinKNX UP using an smartphone for registratering in the SIP server and leave it in background*	Thinknx Voip icon is shown	
	Push button panel Milo 1L	Parallel call:	
		<ul> <li>MEET P2P: WIT Monitor apt. 101</li> <li>SIP: ThinKNX UP smartphone APP</li> </ul>	
	Answer from MEET <b>monitor</b> . Open door	Call to smartphone ends when answering	
	Push button panel Milo 1L	Parallel call: • MEET P2P: WIT Monitor apt. 101 • SIP: ThinKNX UP smartphone APP	
5	Answer from smartphone. Open door	Call to MEET monitor ends when responding	
	Close APP ThinKNX UP on smartphone	We are no longer registered on the ThinKNX SIP server.	
	Push button panel Milo 1L	Single call to MEET P2P: WIT monitor	

\*Alternative for call forwarding without requiring to keep APP ThinKNX UP in the background: MEET ME APP

- 2. Home automation control:
  - A) Via Smartphone
  - B) Via WIT monitor

# **OTHER CONSIDERATIONS**

THINKNX UP APP: v1.2.28

FW THINKNX MICRO Fw. Version: 1.1.10.18

FW monitor WIT: V03.50 (Android 10)

Disclaimer: FERMAX ELECTRONICA does not guarantee or take responsibility for the correct functioning of the Think\_KNX app installed on the WIT monitor other than the version described in this document.