



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 ThinkKNX UP APP, via SIP server available on the ThinkKNX Micro device.
2. Control of a KNX installation from MEET monitors, via the visualisation of the ThinkKNX Micro itself.

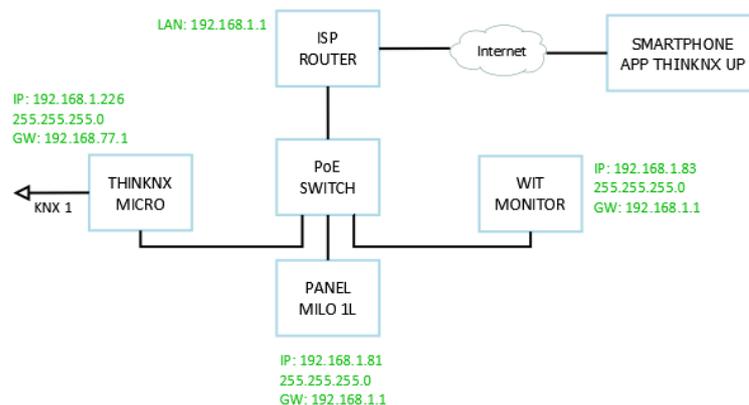
MATERIAL

- 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 THINKKNX 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

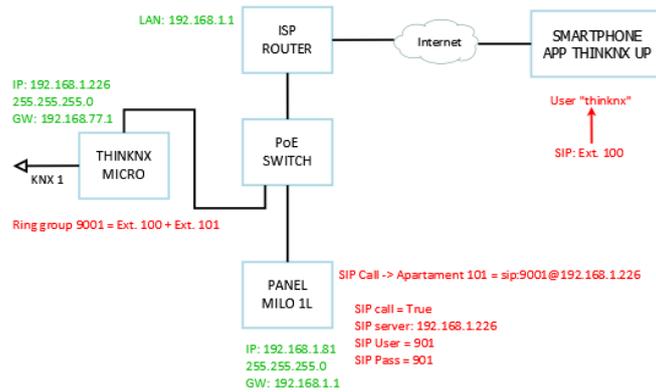
BASIC SCHEME



CONFIGURATION

1. Integration of FERMAX entrance panels in THINKKNX UP application

Summary

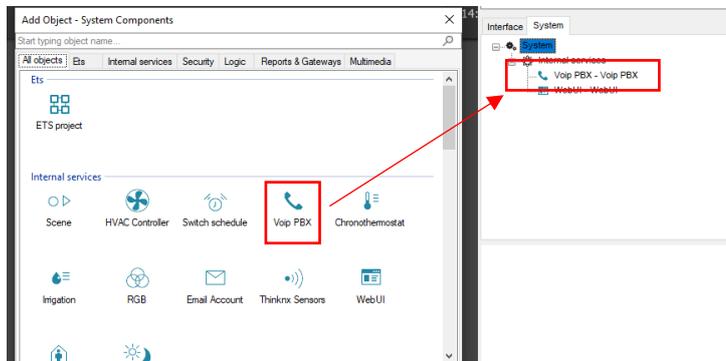


- Entrance panel registered on SIP server ThinkKNX Micro as **extension 901**
- SIP server ThinkKNX Micro contains **Ring group 9001** with a set of extensions to call (100, 101...), assigned to certain users ("thinknx1", "thinknx2" ...).
- When calling from the door station, extension 901 will call 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.

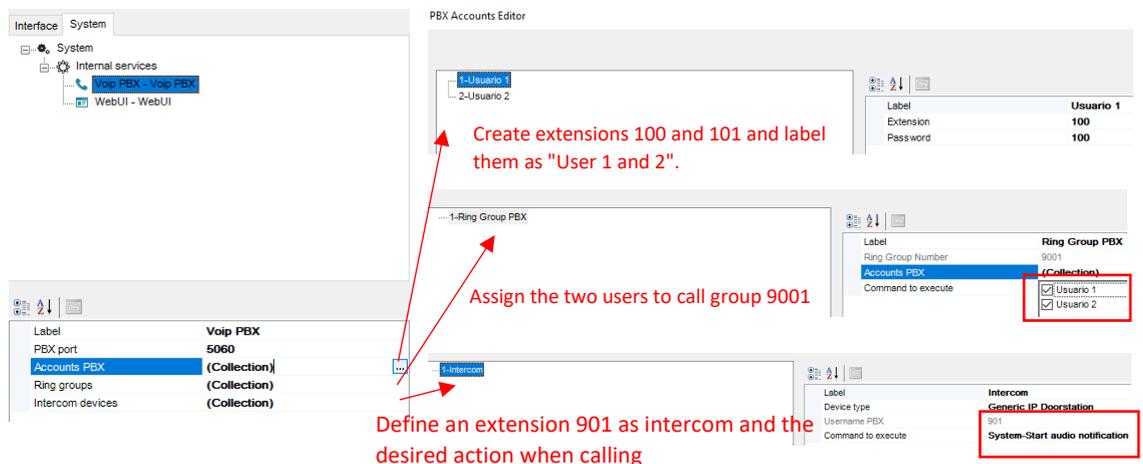
Audio integration

ThinkKNX Micro SIP Server

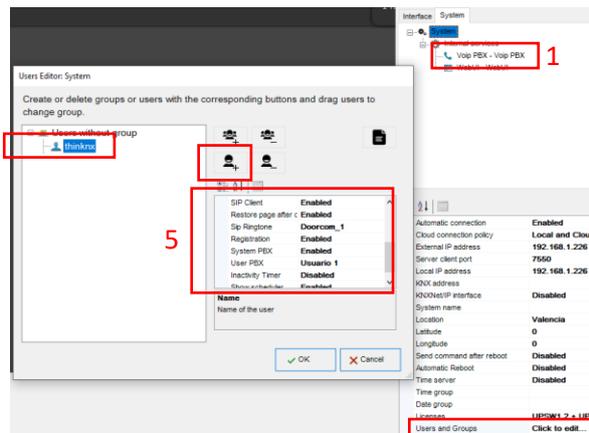
1. Thinknx Configurator > System > System > Right click > Add object > Voip PBX



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



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



Panel Milo 1L

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

| DISPOSITIVO | CONF |
|-------------|------|
| GENERAL | |
| CONFIG.RED | |
| ACC | |
| SIP | |
| SIP TRUNK | |

| | |
|---------------------|--------------|
| TIPO: | PLACA INDIV. |
| BLOQUE: | 1 |
| APART.: | 101 |
| Nº DE EQUIPO: | 1 |
| TAG DE DISPOSITIVO: | MILO 1L |

- SIP > Register the panel on the ThinkKNX Micro SIP server as extension 901.

| DISPOSITIVO | |
|-------------|--|
| GENERAL | |
| CONFIG.RED | |
| ACC | |
| SIP | |
| SIP TRUNK | |
| SIP CALL | |
| AVANZADO | |
| CÓDIGO PIN | |
| RESTAURAR | |

| | |
|------------------|--|
| ACTIVAR SIP: | <input checked="" type="checkbox"/> VER SIP STATUS |
| SERVIDOR SIP: | sjp:192.168.1.226 |
| DOMINIO: | 192.168.1.226 |
| IP STUN: | 5060 |
| PUERTO STUN: | 5060 |
| H 264: | 102 |
| USUARIO SIP: | 901 |
| PASS SIP: | ••• |
| CONVERSACION: | 120s |
| TONO DE LLAMADA: | 30s |

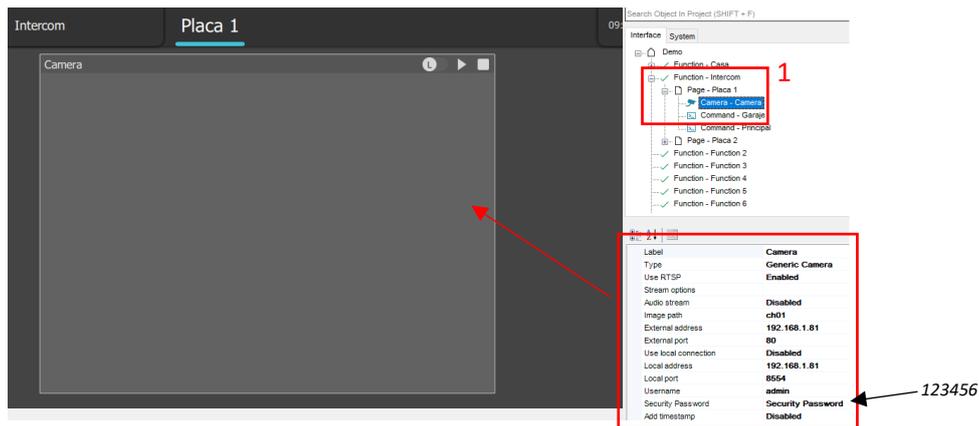
- SIP Call > Apartment 101 = Call group call 9001 from SIP ThinkKNX server

| SIP CALL | APARTAMENTO | NÚMERO |
|----------|-------------|------------------------|
| AVANZADO | 101 | sjp:9001@192.168.1.226 |

Video integration

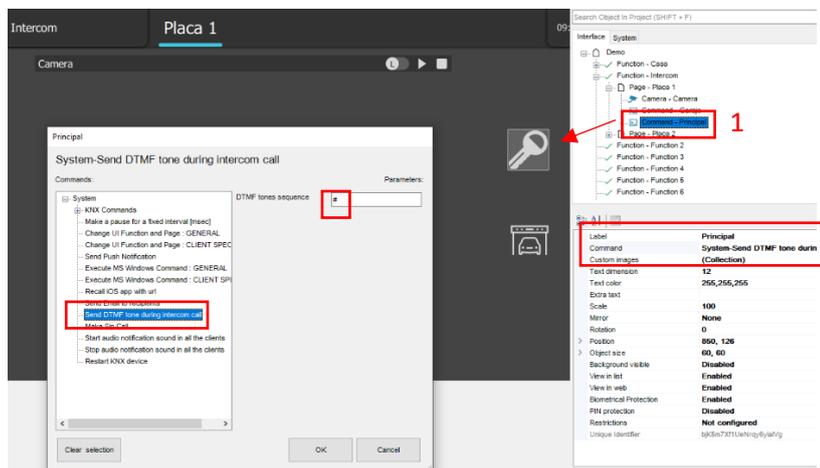
ThinkKNX Micro SIP Server

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

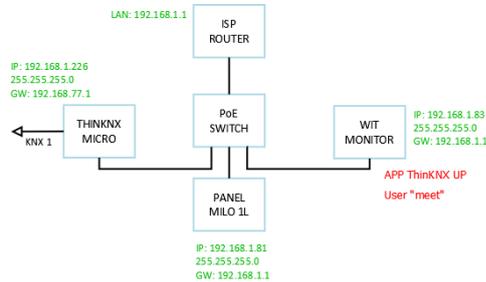
ThinKNX Configurator > Interface > "Intercom" function > Add object > "Generic command" > Command = Send DTMF tone during conversation > DTMF Tone = "#"



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

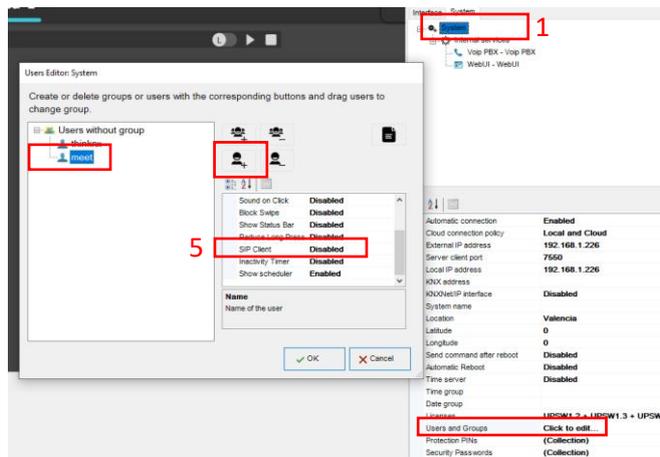
Summary



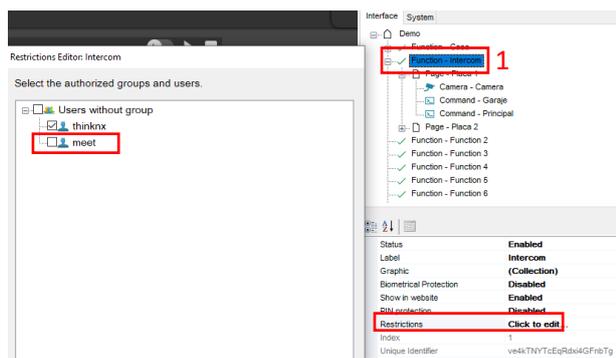
- For the ThinKNX UP APP installed on WIT monitor we must create one user.
- ThinKNX Configurator: "meet" user creation (SIP client disabled, direct call via MEET P2P)
- Initial connection of ThinKNX UP APP to laptop with ThinKNX Configurator software for programming via local connection.

ThinkNX Micro visualisation

1. 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.

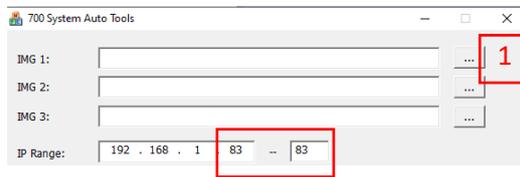


2. Interface > "Intercom" function > Restrictions > Deactivate this function for "meet" user. It should only appear on smartphones/tablets with the ThinKNX UP APP installed, not in MEET monitors.



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 THINKKNX UP APP (1) and set IP Range to the IP address of the WIT monitor: 192.168.1.83-83(2).



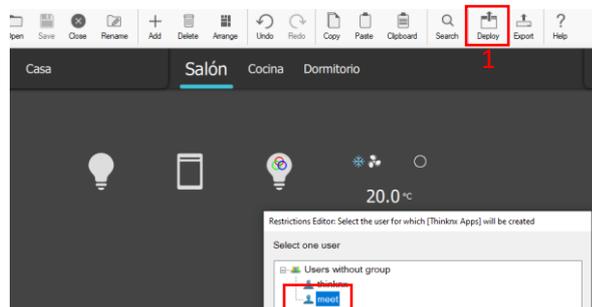
4. Press "Start" to search for MEET monitors in the selected range. Once detected, the APP will be installed and the monitor will reboot.
5. Monitor > Go to the installer menu (password 6666) and open the APPS menu.



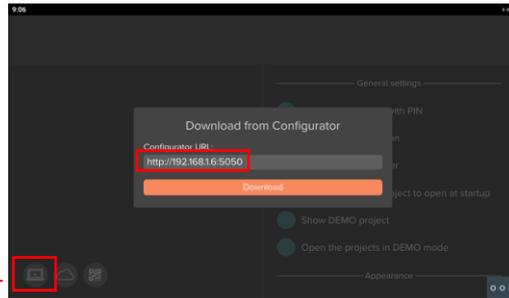
6. Select the "THINKKNX UP" app and assign an icon to it. Save the settings. The application will be displayed in the initial menu of the monitor.



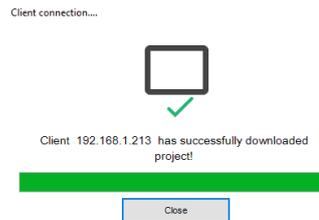
7. ThinkKNX Configurator > Deploy > Web server for ThinkKNX apps > User "meet" > OK



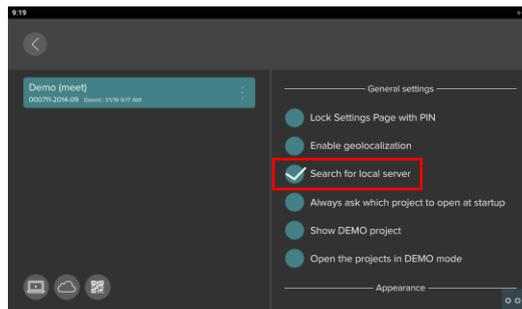
8. THINKKNX UP (MEET monitor) > Open the APP, select the local configuration download option (1), enter the IP address of the laptop - e.g. http://192.168.1.6:5050- with the ThinkKNX Configurator (2) and then click "Download" button.



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

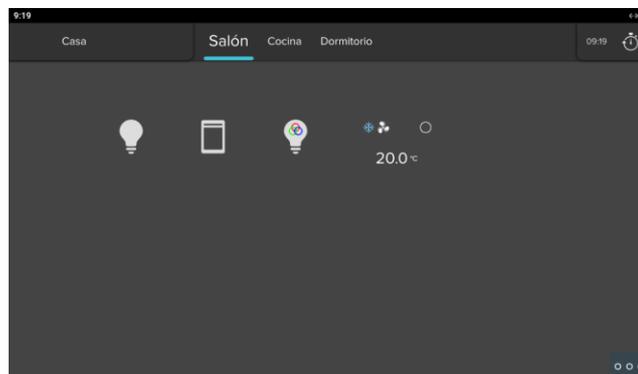


9. APP > Settings > Check the option "Search for local server".



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 ThinkKNX UP visualisation on WIT monitor:



TESTS

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

| Steps | | Result | OK? |
|-------|--|---|-----|
| 1 | Open APP ThinkKNX 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 style="list-style-type: none">• MEET P2P: WIT Monitor apt. 101• SIP: ThinkKNX UP smartphone APP | |
| | Answer from MEET monitor . Open door | Call to smartphone ends when answering | |
| | Push button panel Milo 1L | Parallel call: <ul style="list-style-type: none">• MEET P2P: WIT Monitor apt. 101• SIP: ThinkKNX UP smartphone APP | |
| 5 | Answer from smartphone . Open door | Call to MEET monitor ends when responding | |
| | Close APP ThinkKNX UP on smartphone | We are no longer registered on the ThinkKNX SIP server. | |
| | Push button panel Milo 1L | Single call to MEET P2P: WIT monitor | |

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

2. Home automation control:

- A) Via Smartphone
- B) Via WIT monitor

OTHER CONSIDERATIONS

THINKKNX UP APP: v1.2.28

FW THINKKNX 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.