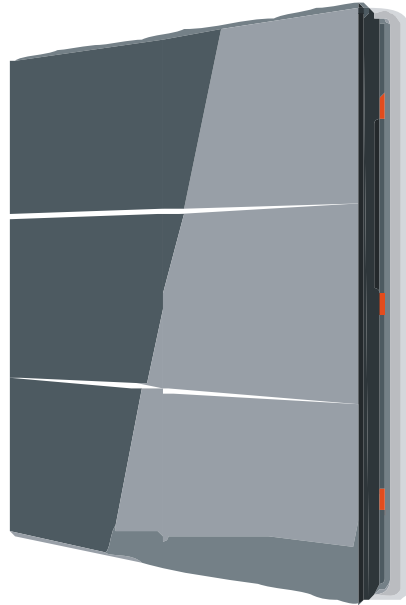

Unirro-KNX

Intrusion Alarm Solution



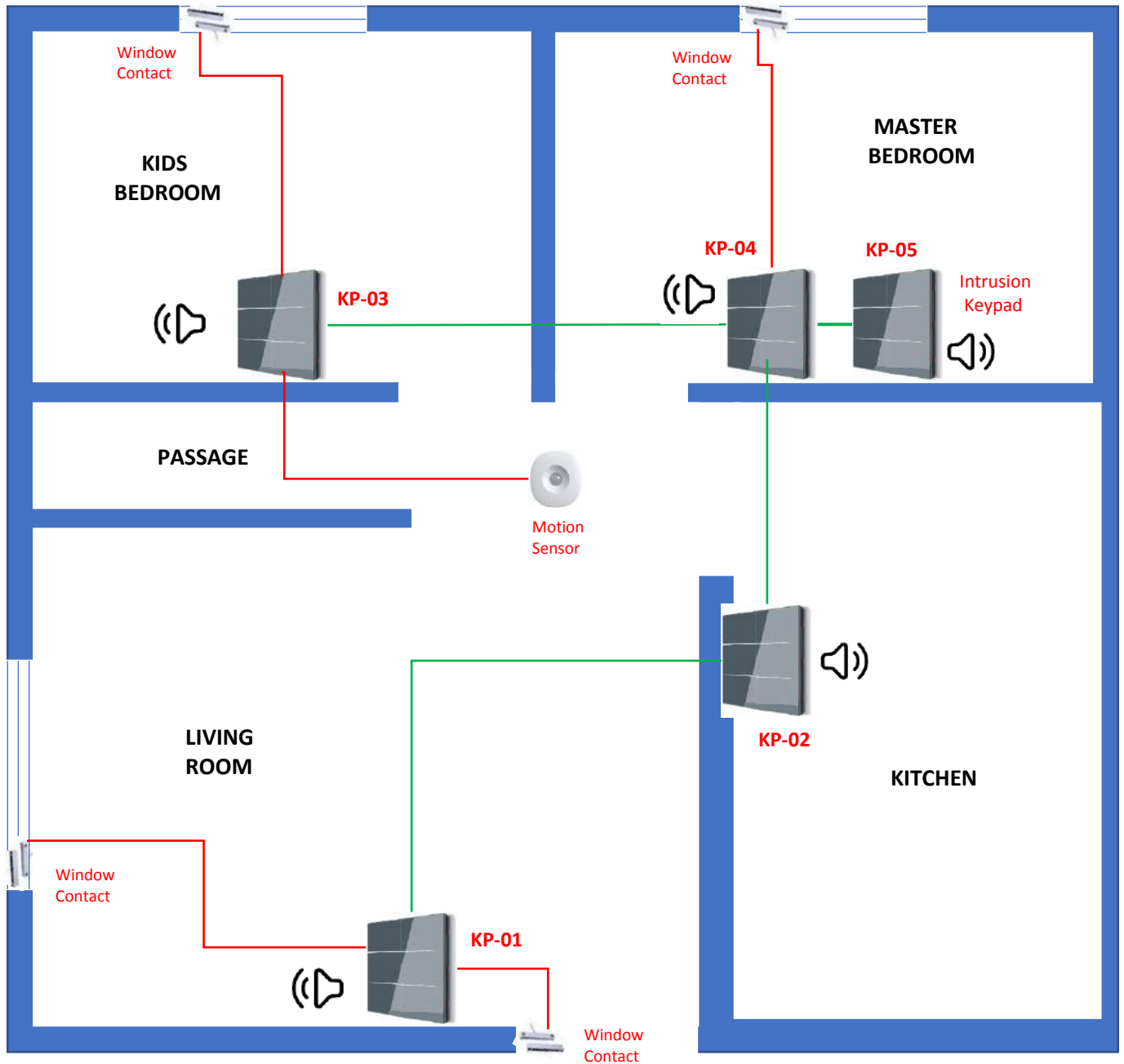
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Intrusion Alarm Solution (Ex: 2BHK Apartment):

With the Unirro-knx we can design the basic intrusion alarm system for the residential as well as commercial spaces. This system can monitor the windows & doors, Unirro-knx Keypad has inbuilt buzzer which can be ring while the intrusion detects.

Also, we can connect the external sounder through switching actuator for louder sound.

Basic 2 BHK intrusion alarm system is shown in the figure below.



Application Diagram: fig-1

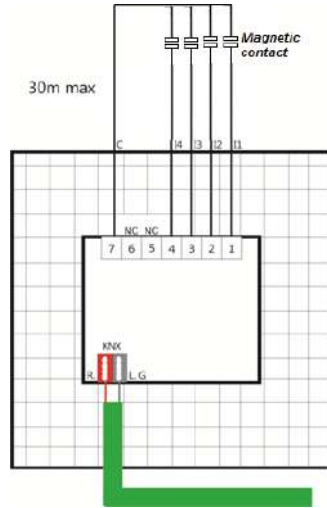
Intrusion Alarm System:

With the help of Unirro-knx we can design the basic Intrusion alarm system, thanks to Let's see the step by step configuration for Intrusion alarm system using Unirro-knx_

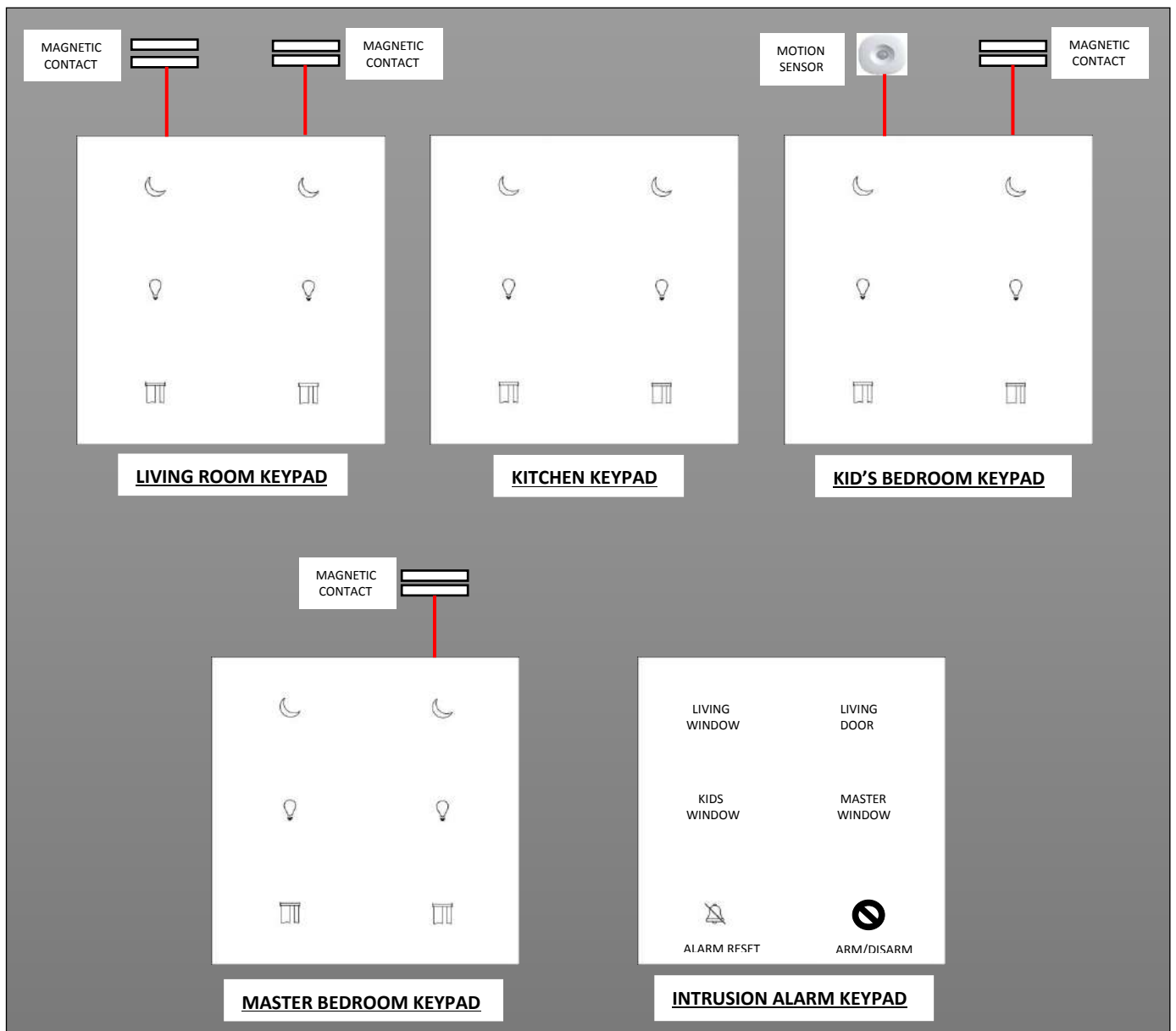
Steps:

- As shown in the fig-1 connects the Window, door monitoring sensors & Motion Sensors to the digital input of the nearest Unirro-knx keypad. Connection details in fig-2.
- Configure the particular digital inputs as sensor & set the transmitted value "0" for NC & "1" for NO. Also we need to enable the Block/Unblock objects of the digital inputs to Arm/Disarm the system. (Refer fig-4)
- Enable the "Nurse Call" tab (ETS) in Sounder to get the "Nurse Call" object. We can use "Nurse Call" buzzer as "Intrusion Alarm" (Refer fig-5)
- Follow the above step for all the keypads in the house to ring the buzzer in all keypads while intrusion detects.
- Configure one Unirro-knx keypad as Intrusion alarm panel; in this case KP-5 is configured as Intrusion panel.
- Assign one button (Long press Button-6) of the Intrusion panel to Arm/Disarm the system & another button (Long press Button-5) for reset the alarm. (Refer fig-4 & 5)
- All other buttons of the Intrusion panel are used as alarm indicator, by linking of digital input status to the LED indication of the intrusion panel. (Refer fig-3)
- Link all configured digital inputs & all the "Nurse Call" objects in one group address, also link the alarm reset button of the Intrusion panel to reset the alarm. (Refer fig-8)
- Link All the Block/Unblock objects of the configured digital inputs with the Arm/Disarm button i.e. button 6 of the living & master in this case, to enable/disable the intrusion system. (Refer fig-8 & 9)
- We can get the details about the intrusion location by the status object of the digital inputs, which we can use in our visualisation panel to get the intrusion location. (Refer fig-10)

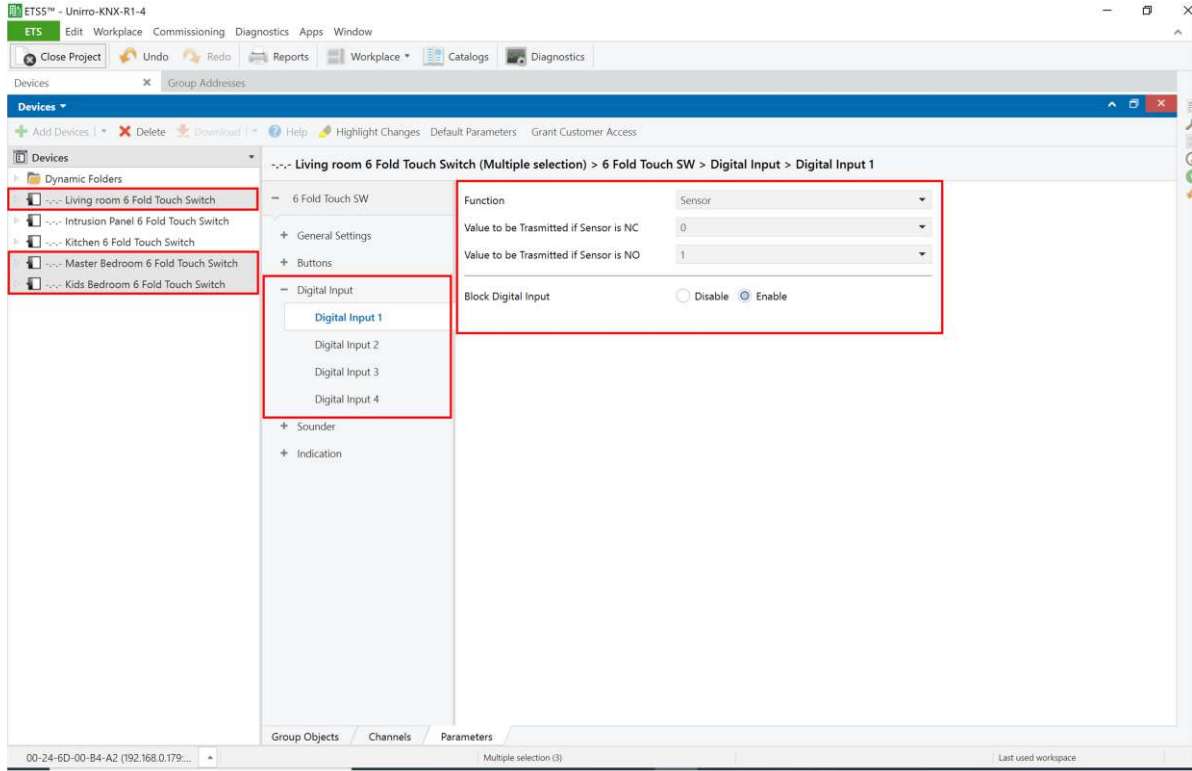
GROUP ADDRESS	SIZE	DESCRIPTION (Linking)
Intrusion detection & Alarm reset	1 bit	<ul style="list-style-type: none"> • All configured Digital inputs as intrusion system. • All the "Nurse Call" objects of the keypads. • Alarm reset buttons long press.
System Arm/Disarm	1 bit	<ul style="list-style-type: none"> • All the Block/Unblock objects of the configured digital inputs. • Arm/Disarm buttons long press switching objects.
Main Door Detection	1 bit	<ul style="list-style-type: none"> • Digital input sensor status Main door. • Intrusion panel Button-2 LED object
Living Window Detection	1 bit	<ul style="list-style-type: none"> • Digital input sensor status Living window. • Intrusion panel Button-1 LED object
Master Window Detection	1 bit	<ul style="list-style-type: none"> • Digital input sensor status Master window. • Intrusion panel Button-4 LED object
Kids Window Detection	1 bit	<ul style="list-style-type: none"> • Digital input sensor status Kids window. • Intrusion panel Button-3 LED object



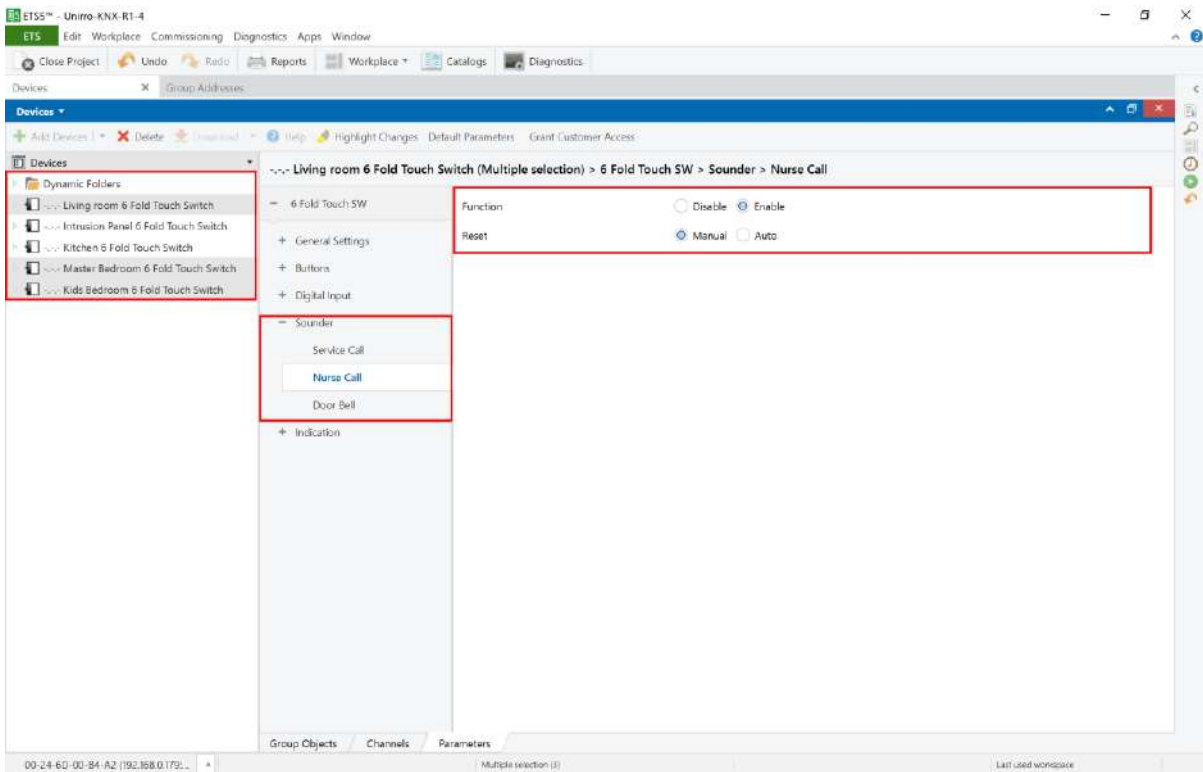
Connections: fig-2



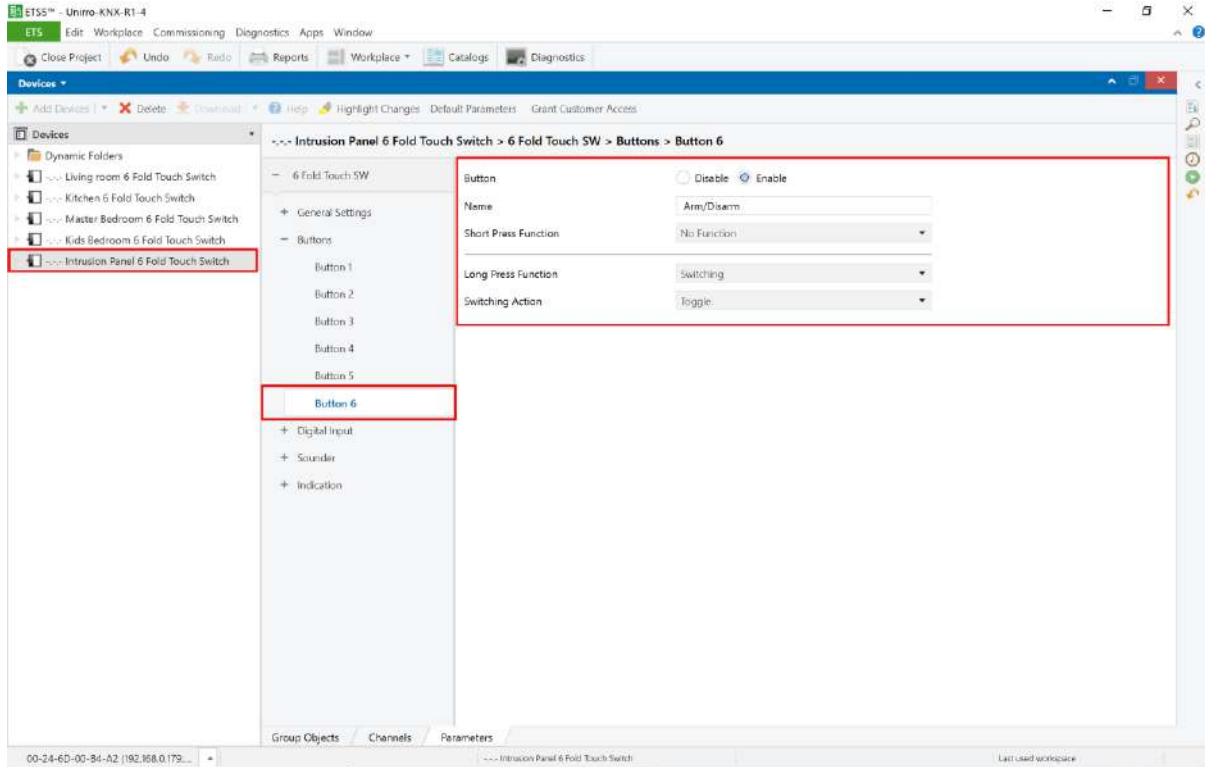
Keypad: fig-3



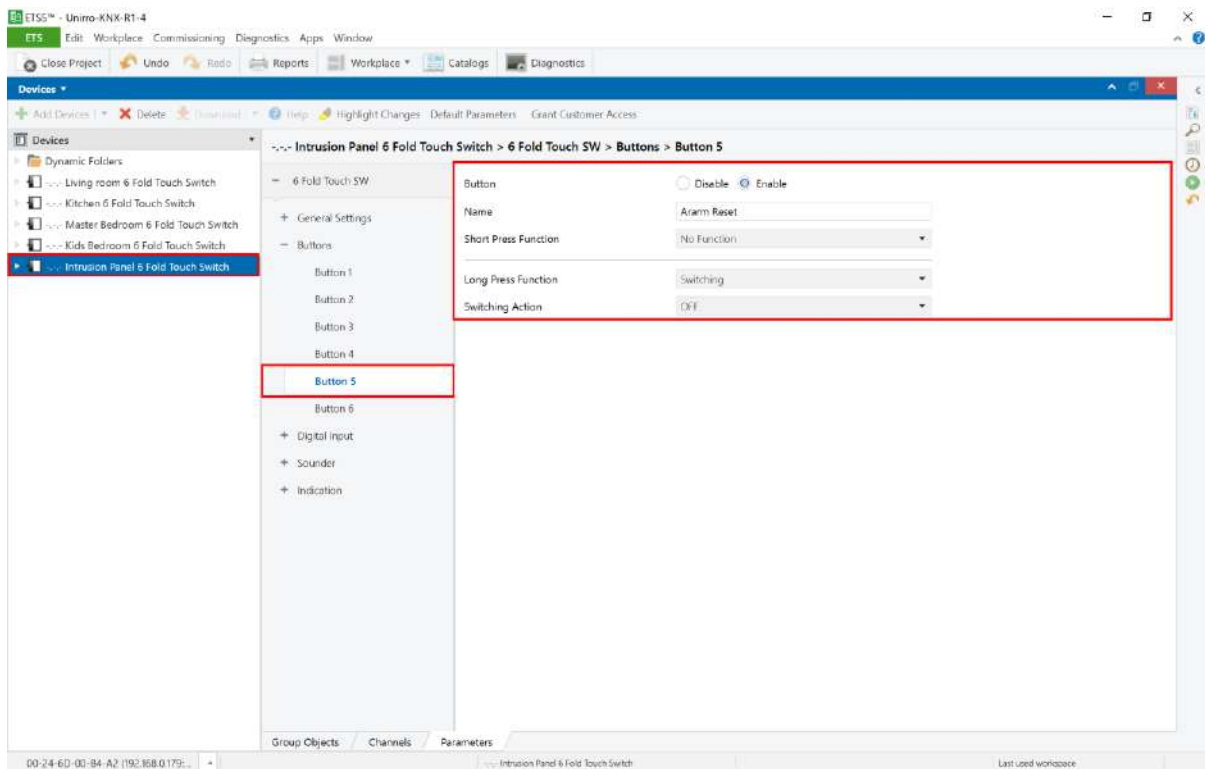
Digital Inputs: fig-4



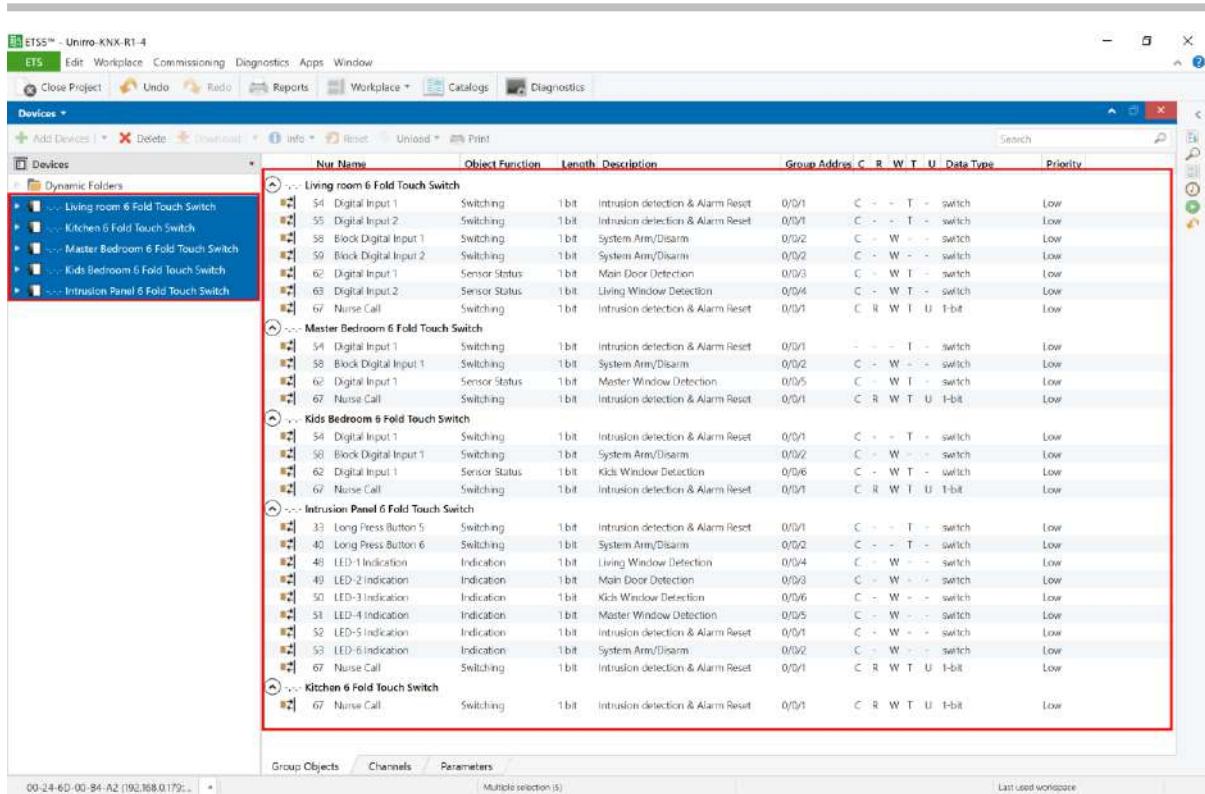
Sounder: fig-5



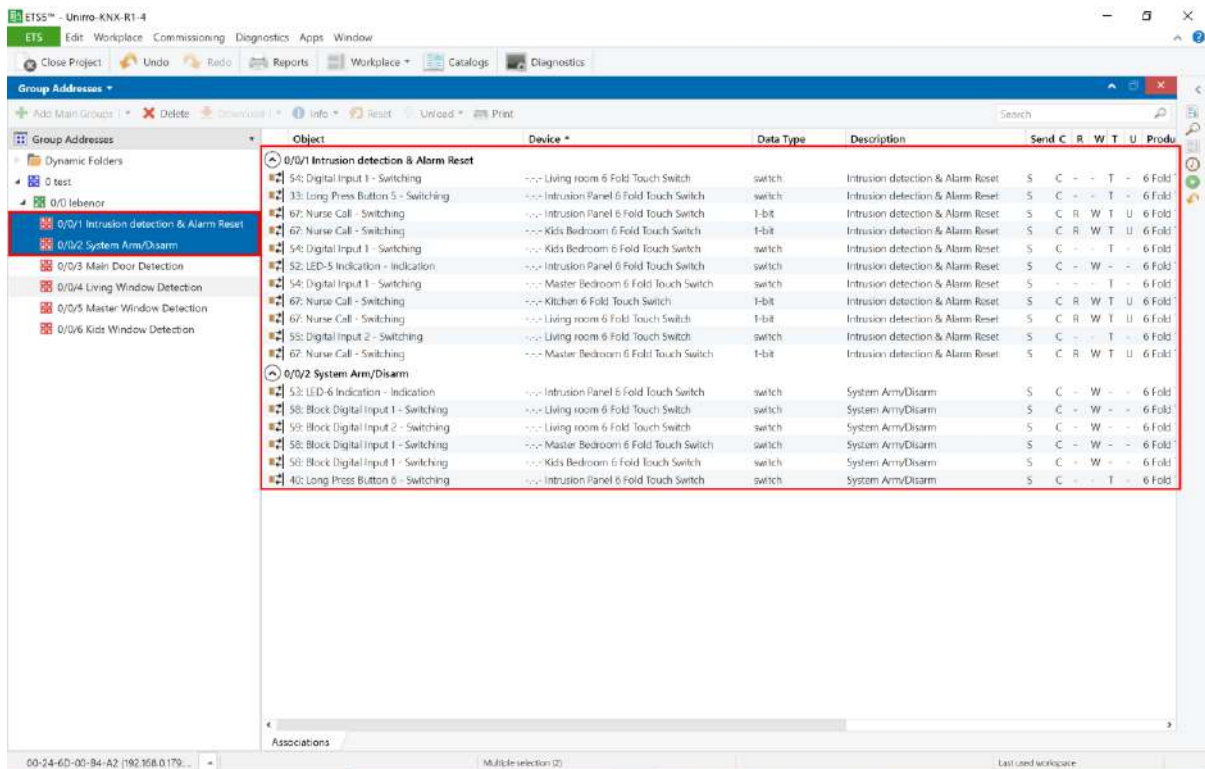
Keypad: fig-6



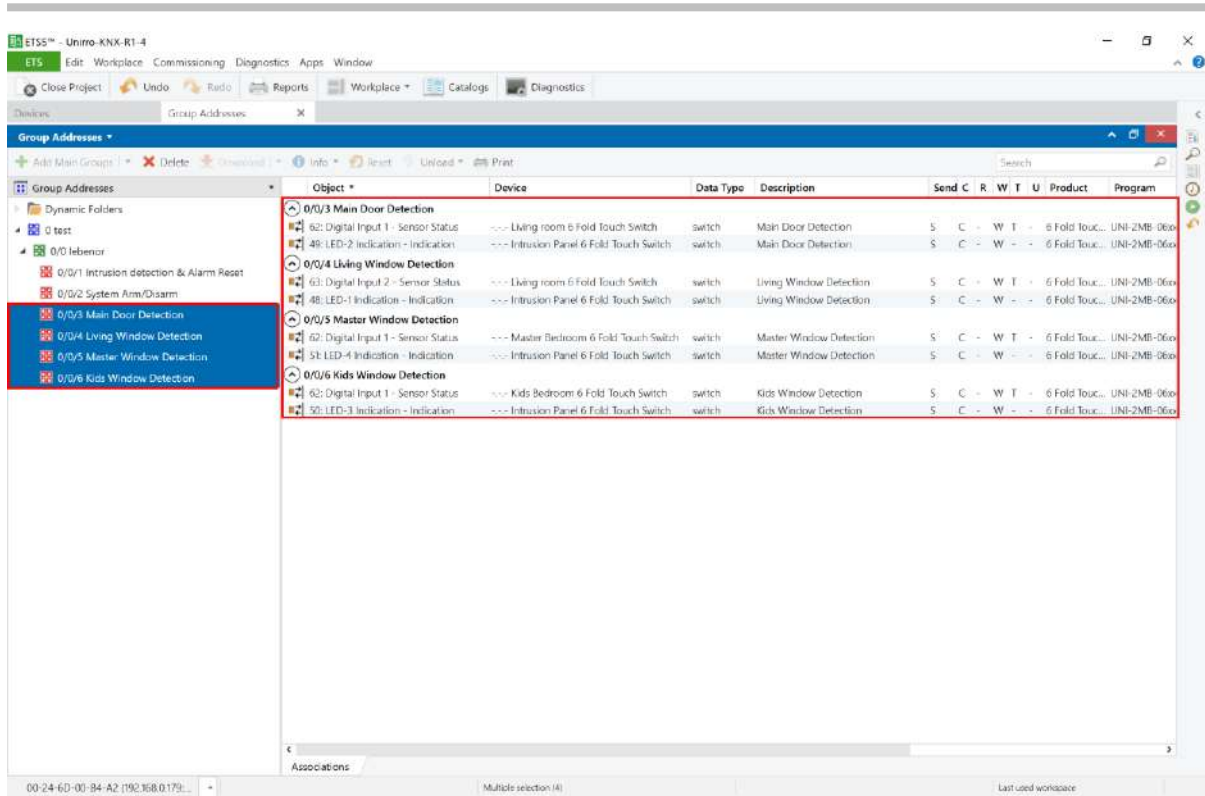
Keypad: fig-7



Linking: fig-8



Group Address: fig-9



Group Address: fig-10

Thank You

For any further technical support call us on +91 9607002474 or write us on support@lebenor.com