



Application Note

2Smart panels integration

1.06.11 – FV1061



1 Description

This document describes the way to integrate FDI 2Smart panels with the Ipassan controller. By integrating it, you will get the following benefits:

- Manage door and lift access control plus intercom system from one software.
- Manage events from the same software
- Simplify the wiring as the controller relay is used for both access (reader and intercom calls)
- Improvement of the security as the door relay is inside the building
- Create a high level interface between the 2Voice system and the access control which can already manage the lifts, in other words manage an easier integration between the door phone system and the lift.

You don't need to use the 2Voice special decoder when you install the 2Smart panel

2 Overview

In term of wiring, the installation of the 2Smart panels is similar to the others 2Voice system

They can be set as main, secondary (0) or secondary (1).

A 2Voice installation can be a mix of 2Smart panels and Urmet panels.

The power supply of the 2Smart panel is provided by the 2Voice bus, so the wiring is very easy. Only 4 wires:

- 2 for 2Voice Bus
- 2 for 2Smart connection with the controller

The number of 2Smart panels in an installation is limited by the 2Voice system:

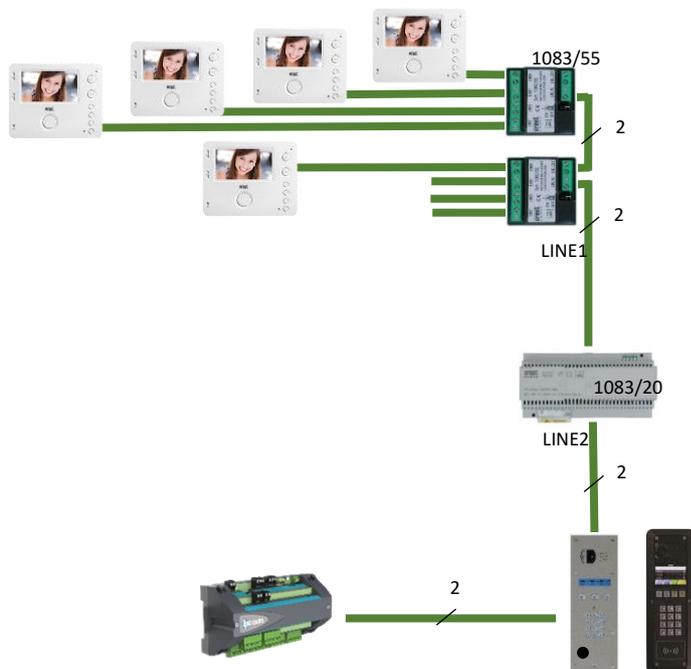
- Up to 16 main panels
- Up to 2 secondary panels per riser

Application Note

The main advantages of those panels are:

- DDA compliance
 - o Braille keypad
 - o Voice message (not available in the fv1002 firmware)
 - o Large display
 - o BLE for hearing impaired loop
- Call number
 - o Up to 8 characters
 - o Could be:
 - Digits
 - Letters
 - Special characters
 - o B2-12 for example

Synoptic



3 How does it WORK?

Call modules and apartments are created and managed in the software. They must match the installation.

When a visitor calls a resident from the 2Smart panel, it sends to the controller the handset number together with the type of event (call in progress, Push button 1 pressed, door open, etc).

Ipascan displays, in the event window, the right apartment name as entered in the software.

Second option: the lock push button of the handsets is set to open a door of the same controller, so when the 2Smart panel sends the event "push button 0" to the controller, the right relay of Ipascan is activated.

Third option: lift and floor are set for each apartment so when the resident opens the door for the visitor, Ipascan authorises also the right lift and right floor for the visitor.

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4 Wiring

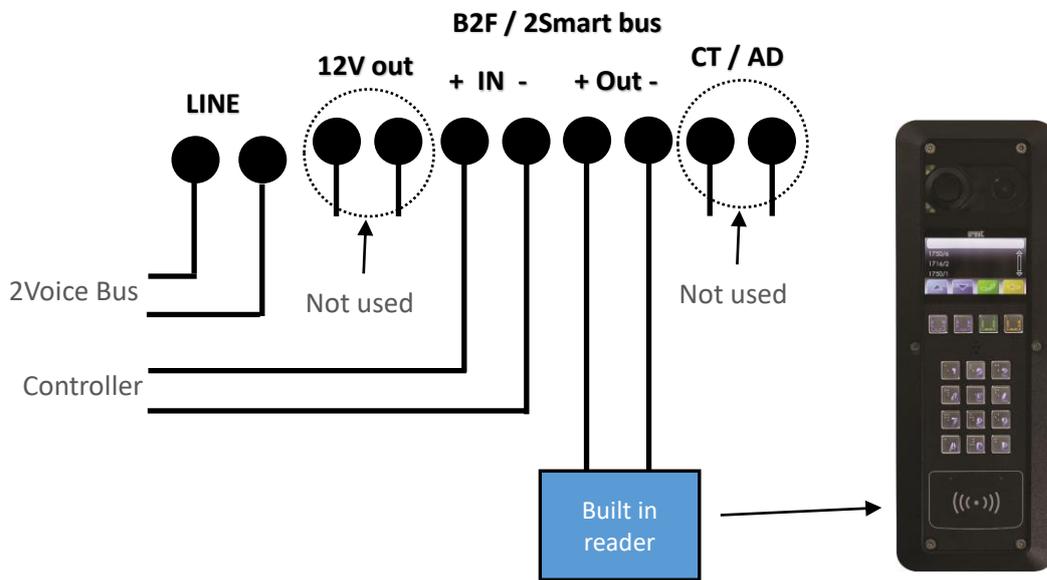
A 2Smart panel is wired with 2 wires to the iPassan controller as a reader on a door slot.

The 2Smart panel doesn't require extra power supply as it is powered from the 2Voice bus.

Two connections are required:

- One for the 2Smart bus to the controller
- One for the 2Voice bus.

Note, the built in reader of the 2Smart panel uses the same 2Smart bus than the panel. So it is only 2 wires from the panel to the controller for the call module and the reader.



2Smart panel

5 Setting

Important, the door phone feature needs to be activated in the software.

Add the panels and link them to the controllers in the software.

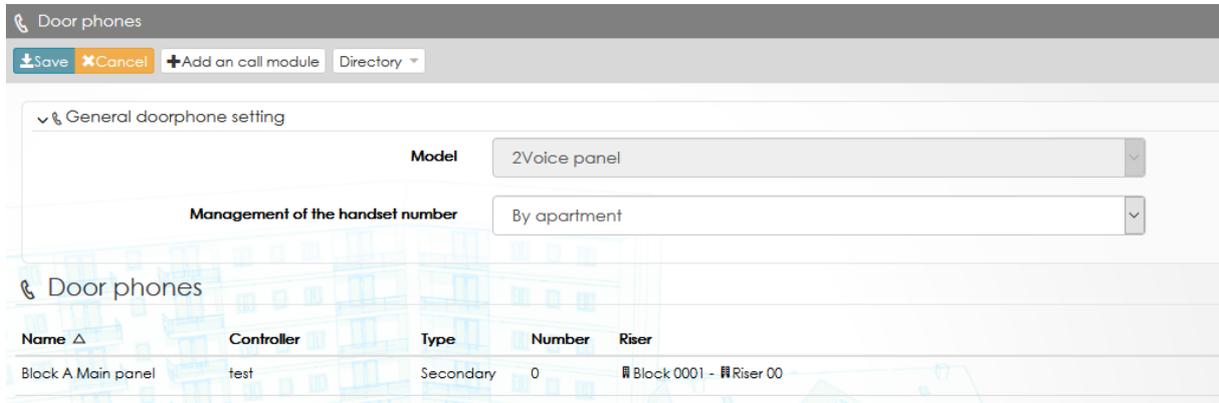
General setting

Two kinds of integration are available in Ipassan

- Integration of FDI 2Voice panel (2-SMART panel)
- Integration of standard 2Voice panels with an interface FD-500-570

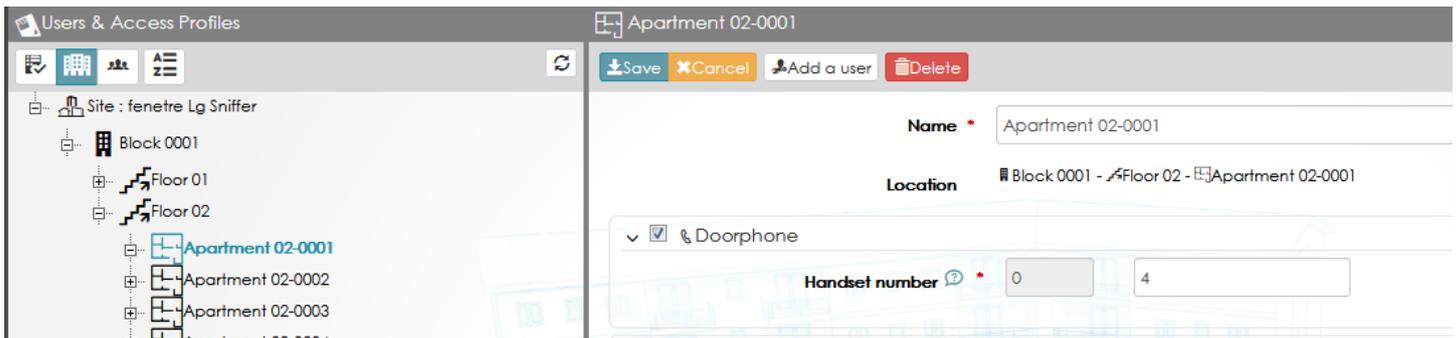
In the following window, select the 2Voice panel choice.

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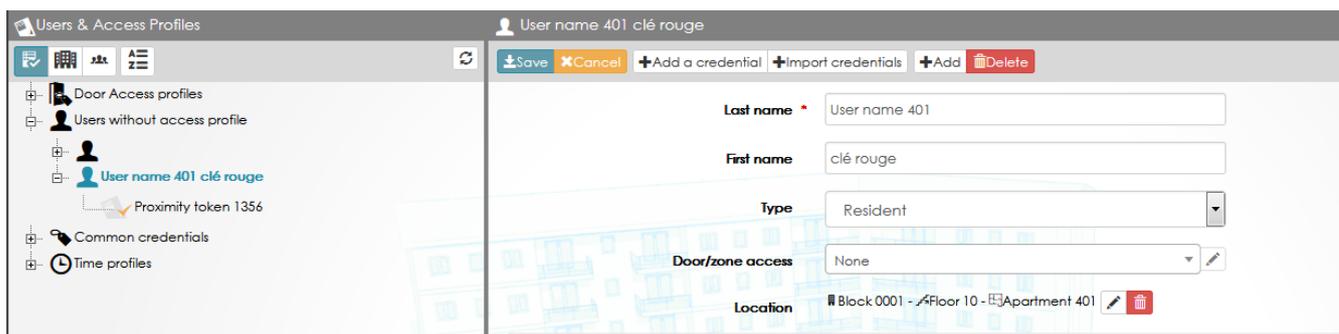


A second option offers two ways to link the handsets number (dipswitch) to the software. These handset numbers can be linked to apartments or users in the software.

In the first way, the software operator finds the residents by the architecture view. The residents are sorted by apartments as shown below:



In the second way, the riser and handset number are displayed under the user as shown below:



2Smart panel

Add a panel in the software then enter a name. Select the controller where it is connected and select the right slot (reader terminals). Enter the type of call module: main or secondary then enter a number (riser number) for this entry panel.

Select up to 4 doors or outputs per push button. When the resident will open to the visitor via the designed push button, these relays will be activated.

Application Note

Name * Block A Main panel

Position Num 2 Controller test

Type Secondary Number 0

Risers x Block 0001 - Riser 00 +

Door x test - Door 0002 +

Handset button 2 x test - Door 0004 +

Status Connected - fv1002 19/02/2019
FDI 2Voice call module

> Communication
> Display
> Audio messages

Advanced settings

It is possible from the software to enter a communication, occupation and pick up time.

Communication 120 sec

Occupation time 20 sec

Pick-up time 20 sec

A display tab gives possibility to display, or not, the call numbers and to choose the search method.

First way to search a resident in the directory is a single list with two arrows: A to Z and Z to A.

The second way is to split the directory in three equal lists.

In this case, the visitor sees 3 different directories: A- E / F-N/ O-Z on top of the three push buttons

If he wants to call "Bond", he presses the first push button (A-Z) then uses the arrows to select the right name.

Display

Call number display No

Display method of the names on panel Search by scrolling

Management of 4th push button

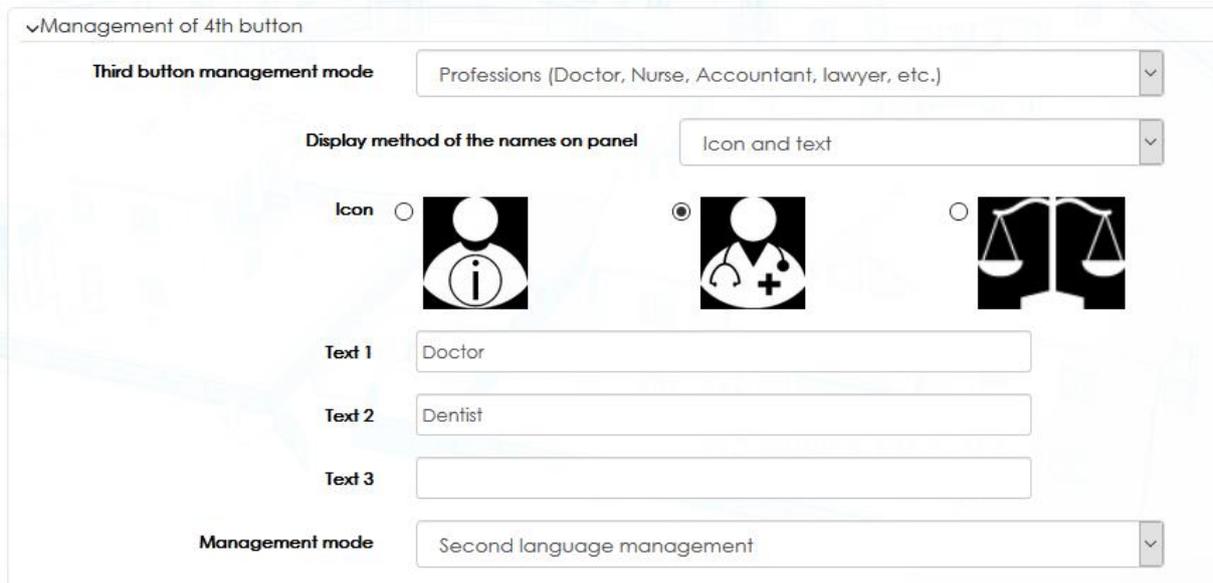
The right push button (4th one) could be a shortcut to call a concierge, doctor, etc

It could be also an icon to change the language. In this case, the default language could be Dutch but when the visitor presses the associated push button, the texts and vocal messages switch to English for example.

Both languages, default one and extra one are settable in the software.

Note this feature is not yet available in the 1.06.11 / fv1061 in February 2019.

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Management of 4th button

Third button management mode: Professions (Doctor, Nurse, Accountant, lawyer, etc.)

Display method of the names on panel: Icon and text

Icon:   

Text 1: Doctor

Text 2: Dentist

Text 3:

Management mode: Second language management

Lift integration

It is possible through those 2Smart panels to authorise the visitor to the right lift and right floor when the resident presses the door lock push button.

In the architecture of the software, each apartment must be affected to a building and floor so when the resident opens the door to the visitor, the controller knows which lift and which floor must be authorised.

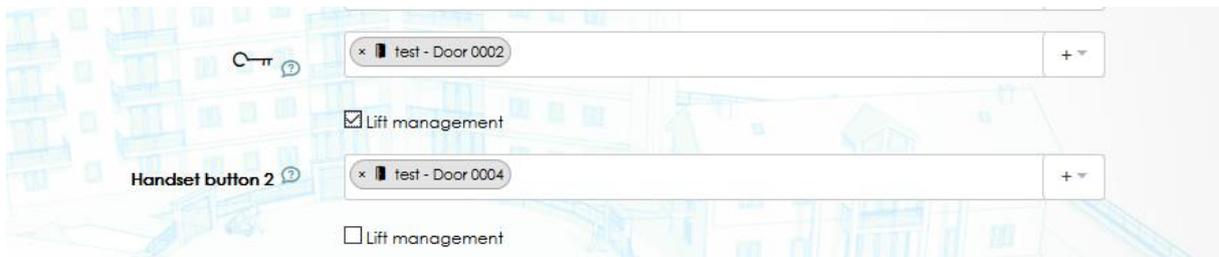
The feature must be set in the 2Smart panel setting of the software. Select the push button which will operate the lift.

It could be the lock push button so the resident presses only one push button for the door and the lift or it could be the auxiliary push button so the resident has the choice to open the door or authorise the floor.

In the following example, when the resident presses the lock push button, he also authorises the visitor to the lifts and floor.

Note, Ipassan manages 4 lifts for the same block, same floor.

It is possible to select up to 4 dry contacts per push button. Those dry contacts could be door(s) of the same controller or output(s) anywhere on the Ipassan network



Handset button 1: test - Door 0002, Lift management:

Handset button 2: test - Door 0004, Lift management:

The second step is the lift setting. Select the Doorphone tab then choose "Smart link with the panel"

Application Note



Doorphone system

Doorphone Smart link with the panel

Floor release time from handset 180 sec

As the user & apartment belong to block and floor, and as the lift serves the block and floor, the controller knows which lift(s) and floor has to be activated when a resident opens the door.