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Integrating Videx IPure series SIP Video Intercom with lares 4.0 IoT platform

Connections and configuration

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This document aims to provide detailed guidance for installers and developers to integrate a Videx IPure series Video Intercom with a Ksenia ergo-T pro keypad (as indoor monitor) present in the lares 4.0 IoT platform. The example configurations given are specific for a Videx mod. 4534X-1 outdoor station.

INDEX

Introduction 3
Functions and Specifications 3
Scenario and connections 4
Installation instructions for wiring the outputs directly to the Videx Video Intercom 5
Videx device: outdoor station configuration 5
Outputs configuration 5
Direct SIP call to outdoor station configuration 6
Media Preview of direct SIP call from outdoor station configuration 7
lares 4.0: IP Video Intercom and Outputs configuration 8
Compatible versions 10
Quantity data 10

Introduction

Ksenia Security lares 4.0 IoT platform implements a SIP client in the **ergo-T pro** touch-screen keypad, for standard audio-video communication, in order to integrate it with a standard SIP Video Intercom "door stations", in particular with the models of the Videx IPure series; in this way **ergo-T pro** touch-screen keypad will operate as "indoor monitor".

At the implementation level, when the call button on the door station is pressed, it makes a SIP one way audio call to the **ergo-T pro** (PREVIEW function); upon answering, a two-ways RTSP (audio/video) communication is established with the possibility to trigger up to two monostable outputs of the control panel (e.g. Gate and Light).

It is still necessary to use the Videx Video Intercom App to answer the call and for remote management of the outputs.

The configuration of the monostable outputs is extremely flexible and open to different solutions; for example, it is possible to connect the outputs to the compatible door station and trigger them directly from the **ergo-T pro** and configure all data required by the Installer App (controlling the outputs connected to the lares 4.0 control panel, directly from the ergo-T pro answer screen, is not possible with first release of ergo-T App, version 2.18.17).

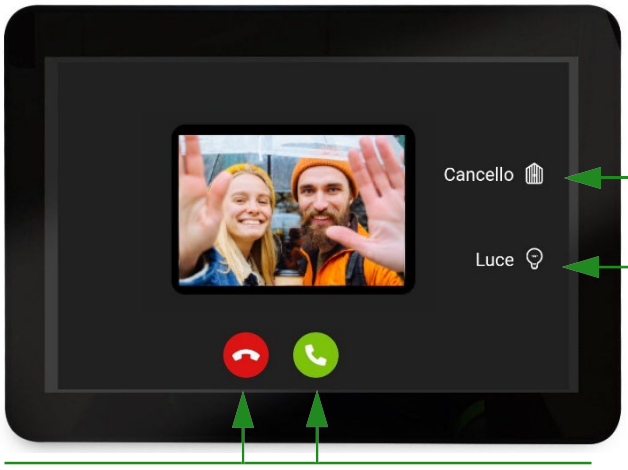
Functions and Specifications

Upon the arrival of the call, the ergo-T pro screen shows: the stream video sent by the door station, two buttons to answer and stop the call and two more buttons to manage the outputs (e.g. Gate and Light).

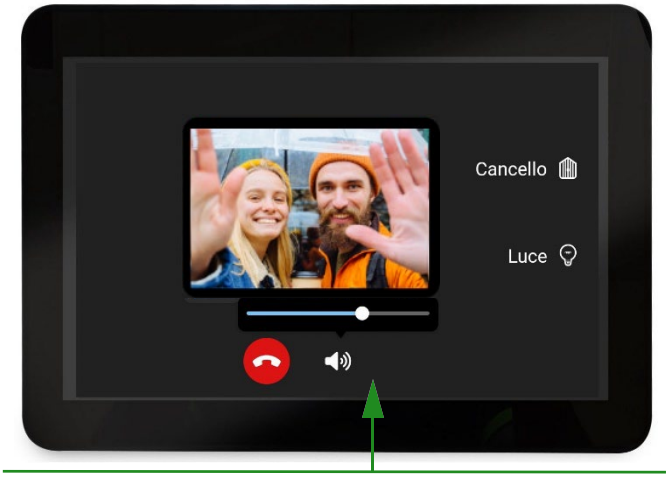
The available functions are detailed in the following images.

ergo-T pro

PREVIEW function
Incoming call with preview: the user can see who is calling and decide not to answer



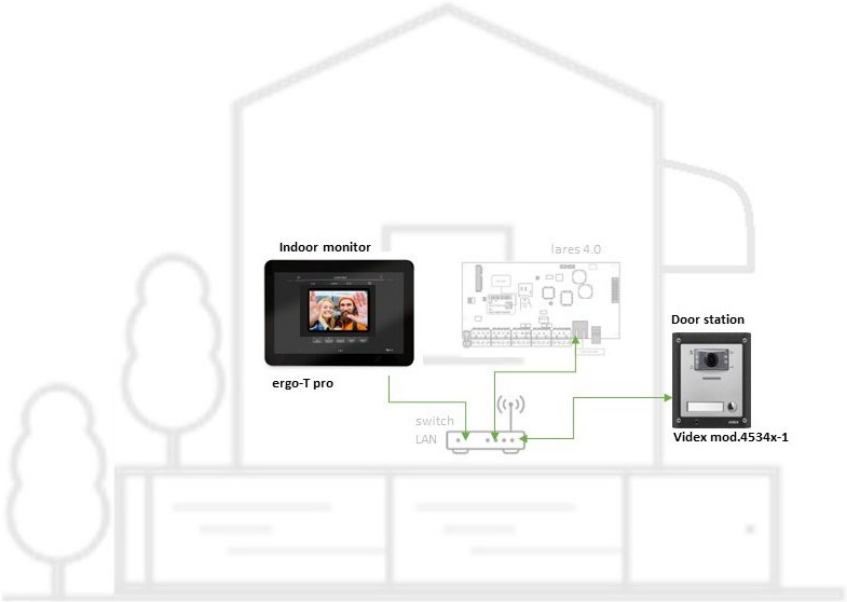
ergo-T pro
ANSWER



After pressing the green button to answer, an audio icon and a bar to adjust the volume replace the green icon

Scenario and connections

The scenario described is about an outdoor station (Videx) and an indoor monitor (ergo-T pro).



The outdoor station of the Videx SIP Video Intercom is connected to the same LAN network as the lares 4.0 by means of a LAN switch.

Installation instructions for wiring the outputs directly to the Videx Video Intercom

The connection terminal blocks for outputs 1 and 2 are described in the following table:

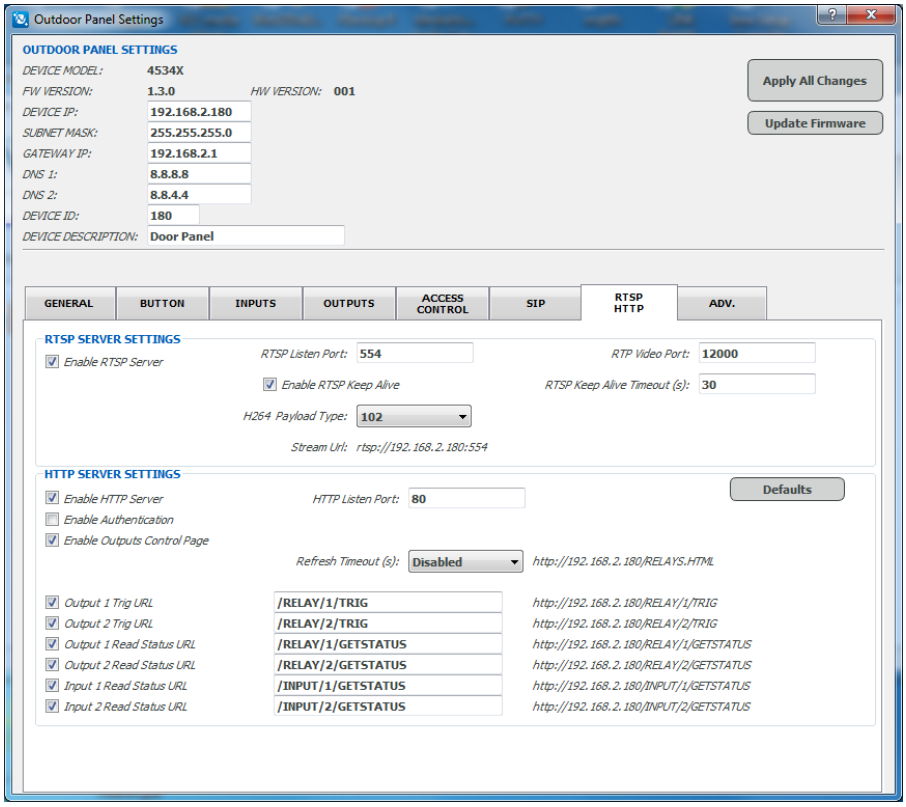
Relay 1	NO1	Relay 1 normally open contact	MAX 12 – 24 Vac/dc 2A
	NC1	Relay 1 normally closed contact	
	C1	Relay 1 common contact	
Relay 2	NO2	Relay 2 normally open contact	
	NC2	Relay 2 normally closed contact	
	C2	Relay 2 common contact	

Videx device: outdoor station configuration

Establish a connection via LAN from a PC and the Videx outdoor station by using Videx IPure WIZARD configuration software for Videx IP System, supplied with the product, and follow the instructions described below.

Outputs configuration

Open the outputs configuration page of the outdoor station.



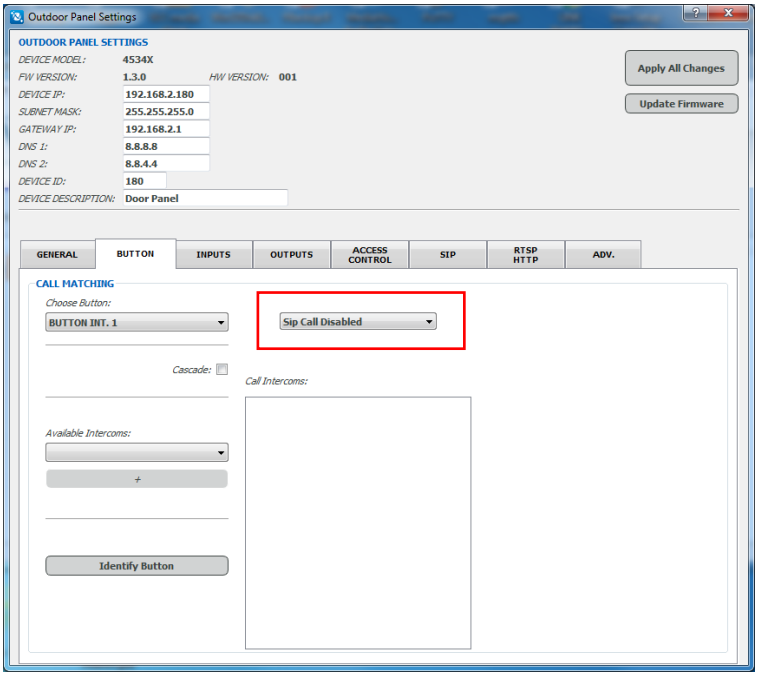
In the configuration page of the Videx IPure WIZARD software, the data shown in the fields, indicated in the following table, must match with the configuration of lares 4.0: from Installer web interface, IP Devices menu -> Video Intercom menu.

Matching configuration table Videx -> lares 4.0	
Videx IPure WIZARD	Installer -> IP Devices -> Video Intercom
Device IP	IP Address
HTTP port	HTTP port
Enable Authentication *not enabled (default)* Enable Authentication *enabled (Username and Password also required)*	Authentication type = None Authentication type = Digest (+ Username and Password)
Output 1 Trig URL	Output 1: Resource path
Output 2 Trig URL	Output 2: Resource path

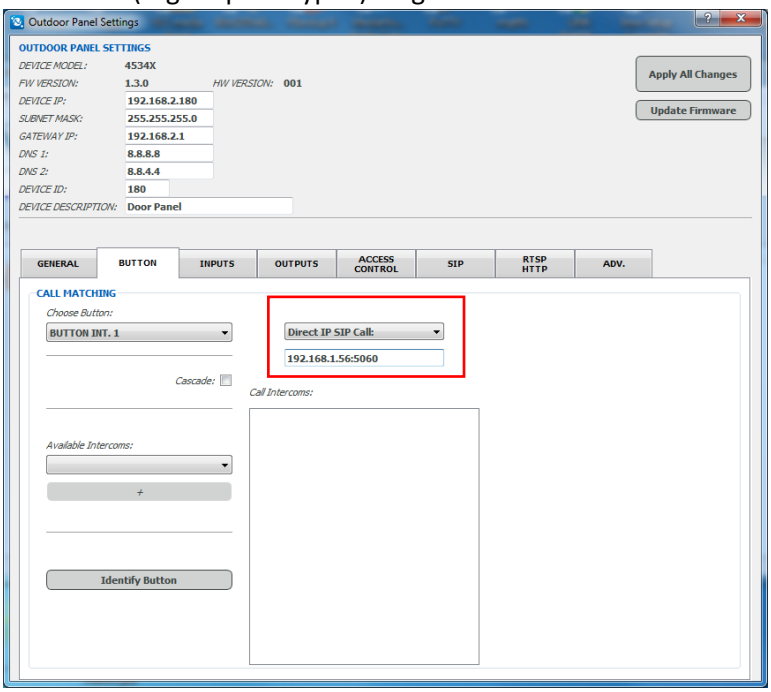
***NOTE**: Videx mod.4534x-1 only use HTTP protocol for the outputs.*

Direct SIP call to outdoor station configuration

1) Open BUTTON Tab., choose BUTTON INT.1 and click on <Sip Call Disabled>.

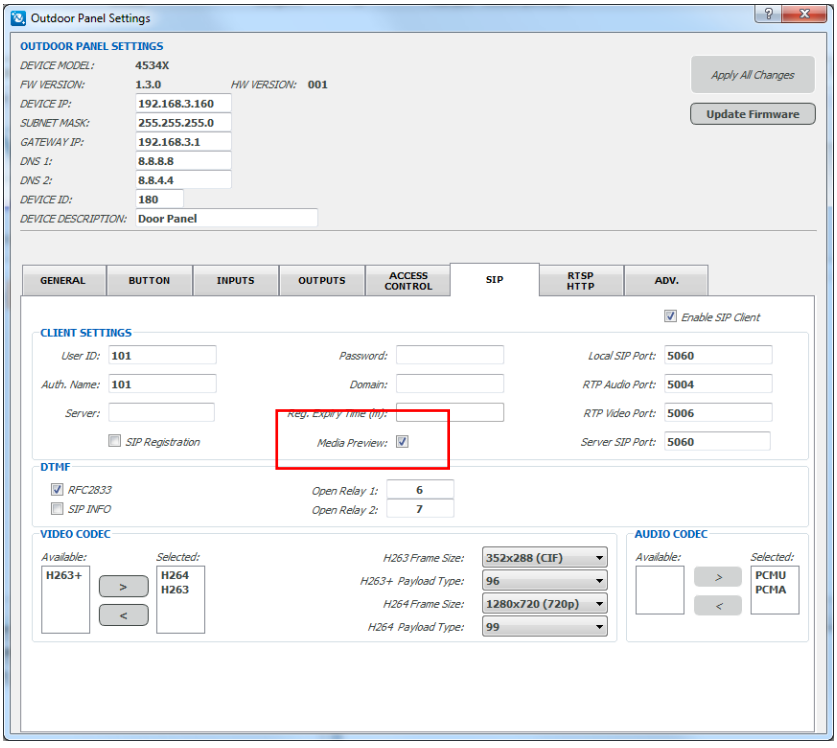


2) Enable direct call on the external button <Direct IP SIP Call> and enter IP Address and port of the device to call (ergo-T pro keypad) <e.g.: 192.168.1.56:5060>.



Media Preview of direct SIP call from outdoor station configuration

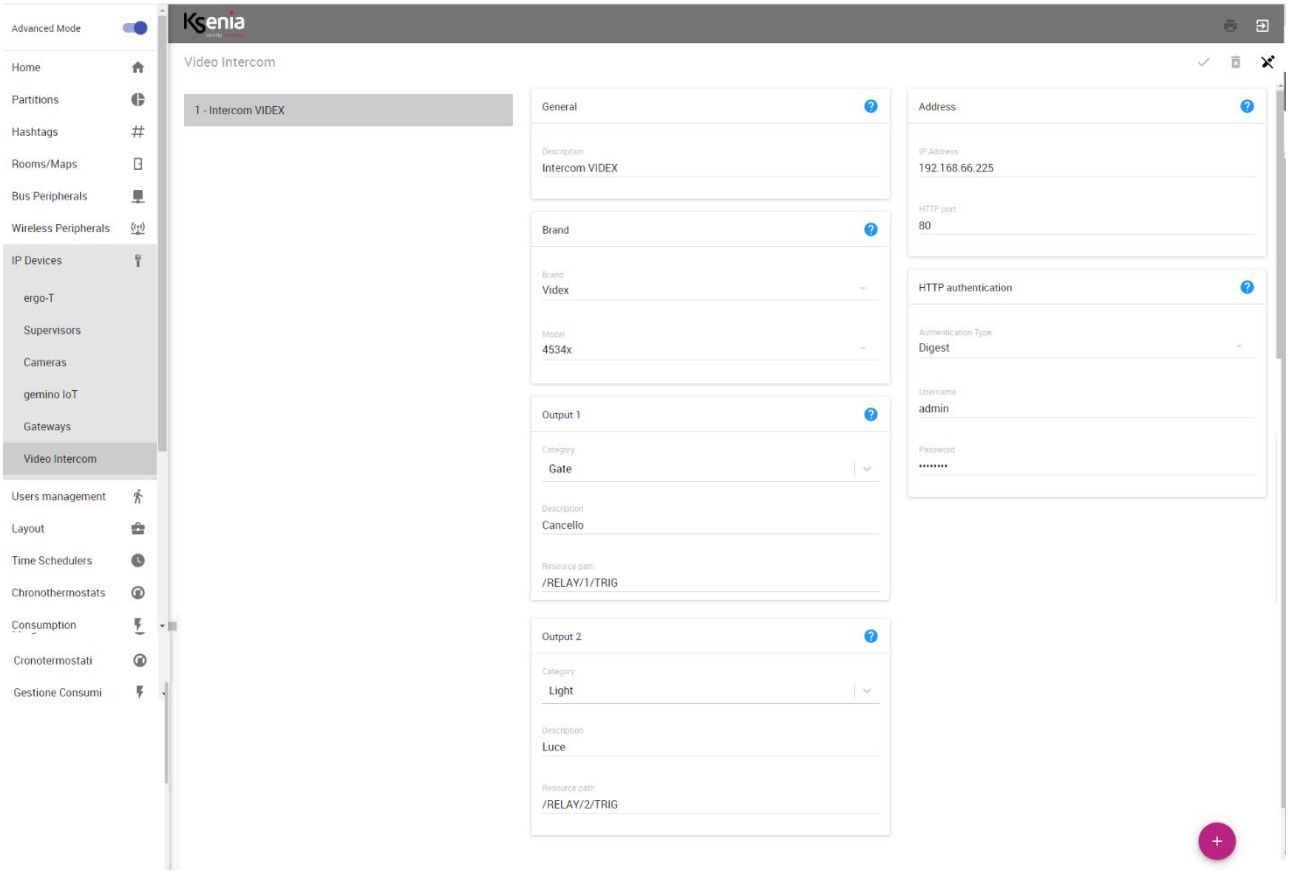
Open SIP Tab. and click on Media Preview check-box to enable it.



lares 4.0: IP Video Intercom and Outputs configuration

Indoor monitor configuration (ergo-T pro) from Installer web server interface.

Menu	Field	Description
IP Devices -> Video Intercom	Description	Give a name to the video intercom
Brand section	Brand	Videx (preconfigured)
	Model	4534x (preconfigured)
Address section	IP Address*	Enter the static IP address of video intercom
	HTTP port*	Enter the HTTP port configured on the video intercom
section HTTP Authentication	Authentication type*	HTTP authentication configured on the video intercom. If Authentication is different from "none" also enter the Username and Password configured on the video intercom.
Output 1 section	Category**	Select a category from the list: **Light, Door or Gate**. The category icon will be shown on the ergo-T pro as first output button.
	Description	Enter a description to identifies the first button. Description and icon will be shown as first output button.
	Resource path*	**RELAY/1/TRIG** (preconfigured): it is the resource path configured on the video intercom to activate the output 1.
Output 2 section	Category**	Select a category from the list: **Light, Door or Gate**. The category icon will be shown on the ergo-T pro as second output button.
	Description	Enter a description to identifies the first button. Description and icon will be shown as second output button.
	Resource path*	**RELAY/2/TRIG** (preconfigured): It is the resource path configured on the video intercom to activate the output 2.
(*) See chapter Videx device: outdoor station configuration and its submenus. (**) If you don't use this output, please leave this field empty and also the button will not be shown.		


Advanced Mode
Home
Partitions
Hashtags
Rooms/Maps
Bus Peripherals
Wireless Peripherals
IP Devices
ergo-T
Supervisors
Cameras
gemino IoT
Gateways
Video Intercom
Users management
Layout
Time Schedulers
Chronothermostats
Consumption
Cronotermostati
Gestione Consumi
Video Intercom
1 - Intercom VIDEX
General
Description
Intercom VIDEX
Brand
Brand
Videx
Model
4534x
Output 1
Category
Gate
Description
Cancello
Resource path
/RELAY/1/TRIG
Output 2
Category
Light
Description
Luce
Resource path
/RELAY/2/TRIG
Address
IP Address
192.168.66.225
HTTP port
80
HTTP authentication
Authentication Type
Digest
Username
admin
Password

Compatible versions

	lares 4.0	lares 4.0 user App for ergo-T	Videx
Software	1.35.1	2.18.17	Videx IPure Wizard 2.7.0
Firmware	1.103.6	-	1.3.0 (minimum version)

Quantity data

lares 4.0 models	wls 96	16	40	40 wls	140 wls	644 wls
Maximum number of IP Video Intercom (door station)	1	1	1	1	1	1
ergo-T pro (indoor monitor)	1	2	4	4	8	14

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