



# Driver Control4 & Ksenia lares 4.0

## Installation and Configuration Manual

[www.kseniasecurity.com](http://www.kseniasecurity.com)

Ksenia Security SpA reserves the right to change or update the information contained in this document at any time and without notice and is not responsible for any errors or omissions.

---

|                                                                                         |    |
|-----------------------------------------------------------------------------------------|----|
| Introduction .....                                                                      | 5  |
| Initial notes .....                                                                     | 5  |
| Requirements .....                                                                      | 5  |
| Compatibility .....                                                                     | 5  |
| General information .....                                                               | 5  |
| Preliminary configuration of the lares 4.0 control panel for Control4 integration ..... | 7  |
| First installation .....                                                                | 10 |
| STEP 1 – lares 4.0 .....                                                                | 10 |
| STEP 2 - Control4 (Composer) .....                                                      | 12 |
| Use of the drive .....                                                                  | 14 |
| Interface and functionality in Composer .....                                           | 14 |
| Actions .....                                                                           | 15 |
| Date and Licence .....                                                                  | 15 |
| Print Log Tags .....                                                                    | 15 |
| Display Status .....                                                                    | 15 |
| Display C4 Variable .....                                                               | 16 |
| Remove old Variable and Output .....                                                    | 16 |
| Configuration update .....                                                              | 17 |
| Troubleshooting .....                                                                   | 17 |
| Configuration mismatch lares 4.0/Control4 .....                                         | 17 |
| Practice for testing and putting into production .....                                  | 17 |
| Appendix .....                                                                          | 18 |
| Events or Action (triggering in programming) .....                                      | 18 |
| Security Panel - Device Variables .....                                                 | 19 |
| Partitions .....                                                                        | 22 |



## 1. Introduction

---

### 1.1 Initial notes

---

For the correct operation of the driver it is recommended to follow step by step this manual.

For a better functioning of the system, it is recommended to install an uninterruptible power supply (UPS), able to supply power to the Control4 controller and to the network devices (routers, switches, ...) even in the absence of mains power supply. The lares 4.0 control panel have back-up batteries and therefore do not require external UPS.

### 1.2 Requirements

---

- 2.8.0 Control4 version or next
- Correct Composer version to the Control4 controller
- Ksenia lares 4.0 firmware version 1.22.3 or next
- Driver Ksenia lares4.0

### 1.3 Compatibility

---

The driver is compatible with version X4 of Control4.

### 1.4 General information

---

1. The driver uses websocket connections to communicate with the central lares 4.0. In particular, through the connection named IP\_SUPERVISOR the different objects are read (zone names, scenarios, outputs, partitions,...) and their status is kept synchronized (REALTIME). The commands sent by the Control4 interfaces are sent through a USER connection created using the PIN entered by the user himself (which therefore will have the privileges assigned in the configuration of the lares 4.0).
2. Ksenia provides for the configuration of arming/disarming scenarios. The security interface of Control4 uses "partition" logic and does not allow you to customize the number and names of the interface functions. In order to optimize the integration and allow the system integrator to make the best use of the potentials of Ksenia's scenarios, the following calls have been created in the Control4 interface which, through the driver's properties, must be associated with input scenarios created in the lares 4.0
  - Home
  - Away
  - Stay
  - Arm
  - Disarm
  - Panic
  - Custom A
  - Custom B



**Note:** For Ksenia driver versions later than 13000, it is recommended to configure the partitions of the lares 4.0 control panel as described in the chapter [“Preliminary configuration of the lares 4.0 control panel for Control4 integration” page 7](#).

For version 13000 and earlier, this configuration is not required.

3. The initial driver configuration (reading objects from the lares 4.0 control panel) is a complex operation that may take several minutes before the integration is operational and usable by the Composer. For this reason we recommend:
  - complete the configuration of the lares 4.0 control panel before making the connection with the driver and the resulting Read From Panel
  - disable polling (property Polling Period set to OFF) if you are changing the configuration of the lares 4.0 control panel (polling is in any case restored within 60 minutes after deactivation and is only used to check the existence of communication between drivers and control panel).
4. Scenarios created on Ksenia lares 4.0 that do not include partitions are not displayed in the Control4 scenario list but can still be recalled from programming using the **device specific command** (see ["Appendix" page 18](#)).

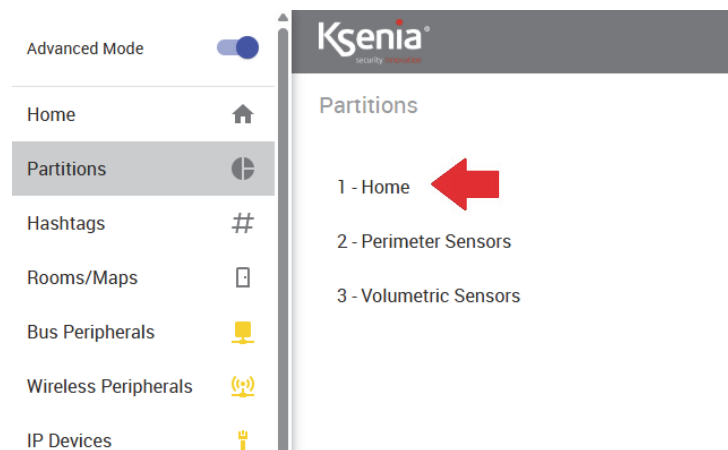
## 2. Preliminary configuration of the lares 4.0 control panel for Control4 integration

**IMPORTANT: The configuration described in this chapter is recommended for Ksenia driver versions later than 13000; however, it is not required for version 13000 and earlier.**

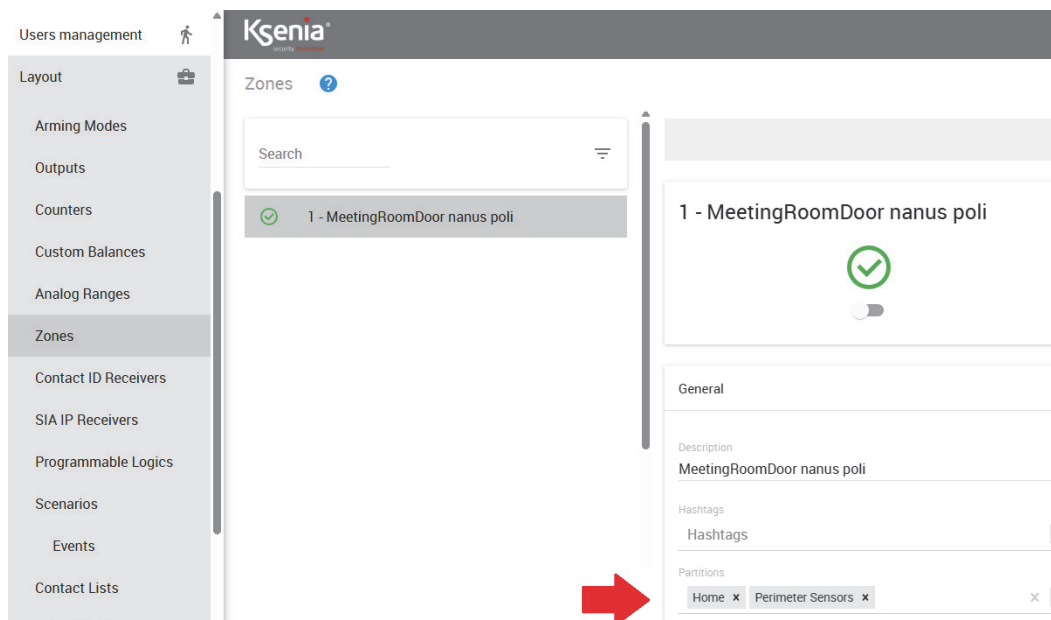
This configuration allows the entire system to be controlled through a single partition interface.

From the lares 4.0 control panel configuration interface, perform the following steps:

**STEP. 1 : In position 1**, create a generic partition (for example, “Home”), as shown in the following image.



**STEP. 2 : Also add** the partition created in STEP 1 to the **Zones** already present in the system (and to the Outputs, if necessary).



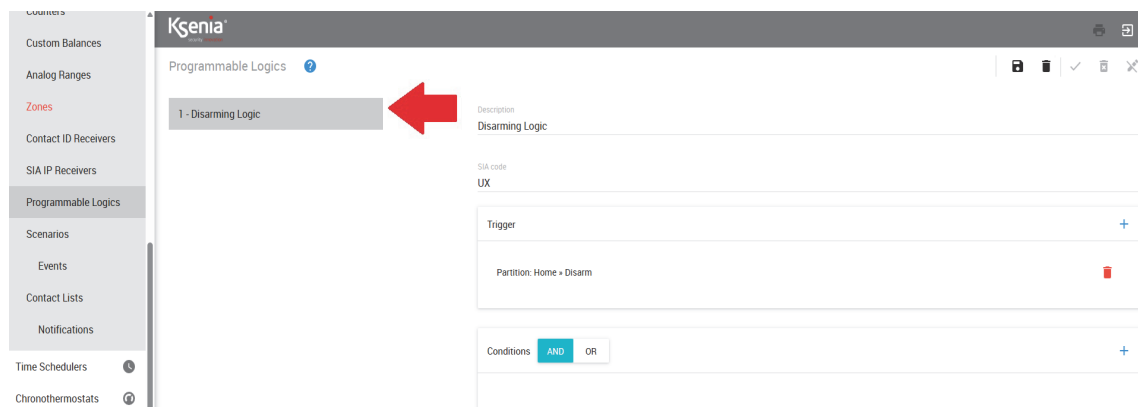
**STEP.3 :** In the **Arming Modes** menu, configure all partitions as shown in the following



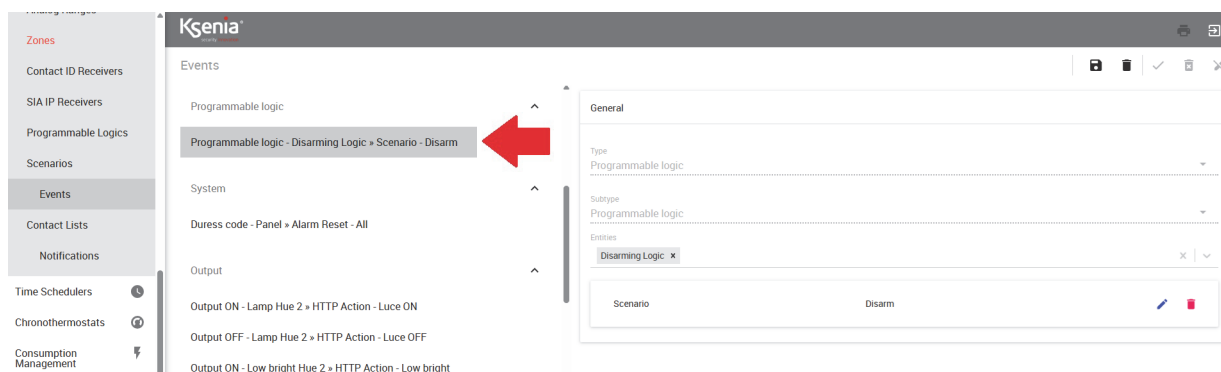
**STEP. 4 :** Create a new **programmable logic** named “Disarming Logic” and configure it as follows:

- Type: Partition
- Subtype: Disarming
- Entity: Home
- Conditions: None

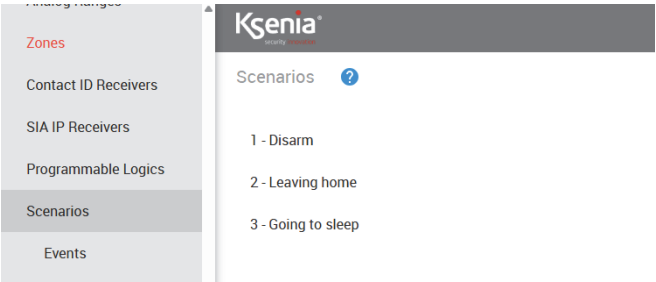
See the following image.



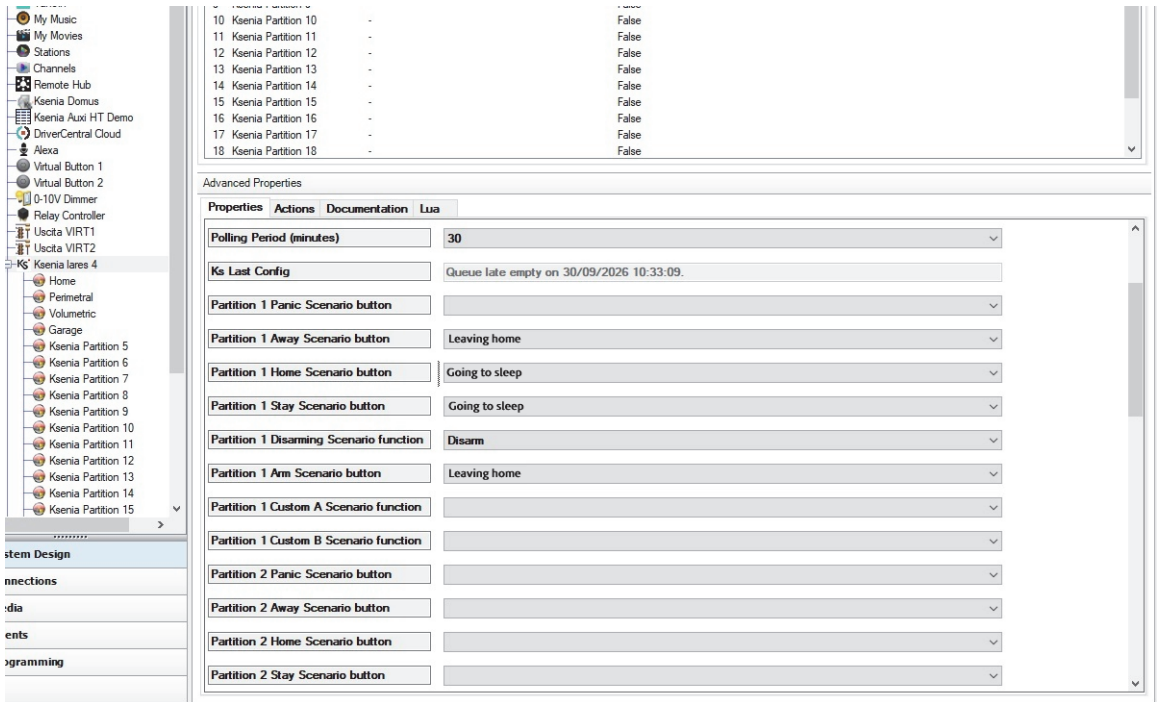
**STEP. 5 :** Create the “Disarming Logic” event and associate it with the “Disarm” scenario, as shown in the following image:



The following image shows an example of the scenarios programmed in the system.



**STEP. 6 :** From the **Control4 Composer software**, under the Ksenia lares 4 branch, the **scenarios can be configured** as shown in the following image.



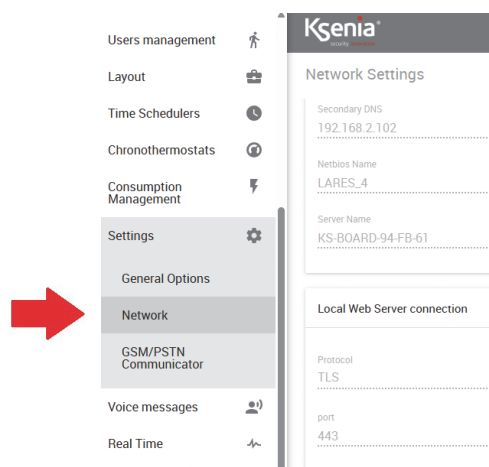
### 3. First installation

This document describes the necessary configuration steps for integrating Ksenia lares 4.0 system with Control4 driver. We assume that lares 4.0 configurations (zones, outputs, partitions, scenarios, PINs, etc.) have already been set correctly.

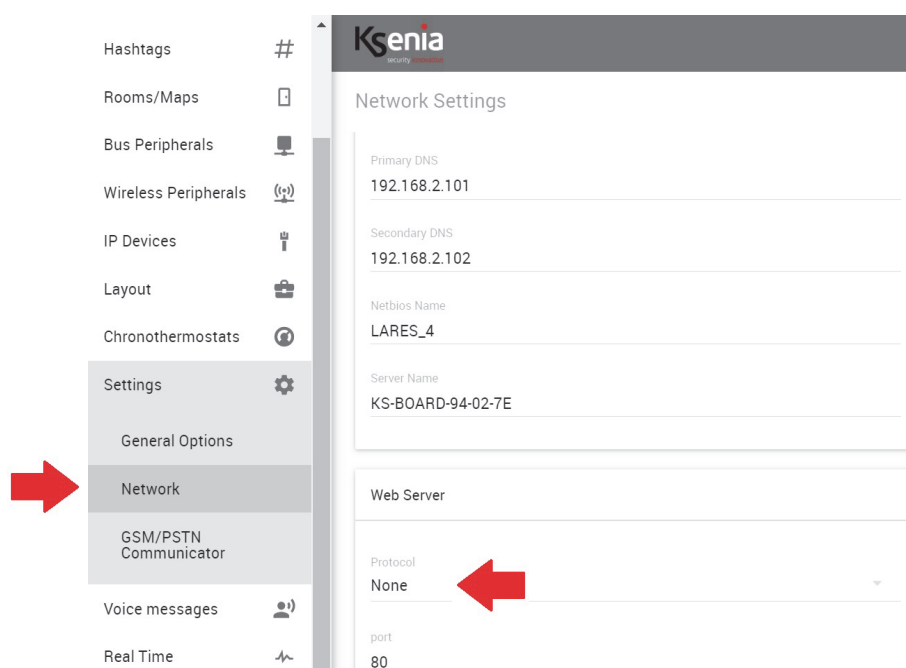
#### 3.1 STEP 1 – lares 4.0

Open lares 4.0 configuration installer web interface and do the following:

1. Associate the IP Supervisor connection to all partitions (none excluded). Enter the MAC address of the Control4 controller. Without these settings the driver cannot work.



2. Configure the protocol to connect to the lares 4.0 control panel via WebServer as follows:
  - Protocol: none (consequently, the listening port is 80) OR use TLS (and listening port 443).This is a fundamental step, without it the Control4 driver cannot synchronize with lares 4.0.



3. Create a lares 4.0 user with dedicated PIN enabled to control scenarios, zones and outputs that can be controlled by Control4 programming and connections (Output). The driver allows you to recall scenarios and check the zone bypass status from the composer's programming menu. It also allows you to connect the outputs from the connection menu. These functions are performed through the dedicated PIN, and indicated in the property as Ksenia user password (see [“STEP 2 - Control4 \(Composer\)” page 12](#)).
4. Create the scenarios that you plan to associate with the following features of the driver interface:
  - Home Mode
  - Away Mode
  - Stay Mode
  - Arm

*For these buttons you should configure a scenario that arms/disarms the system.*

*Note: You can also add and customize the Disarm Scenario; to open it you need to press the Functions key.*

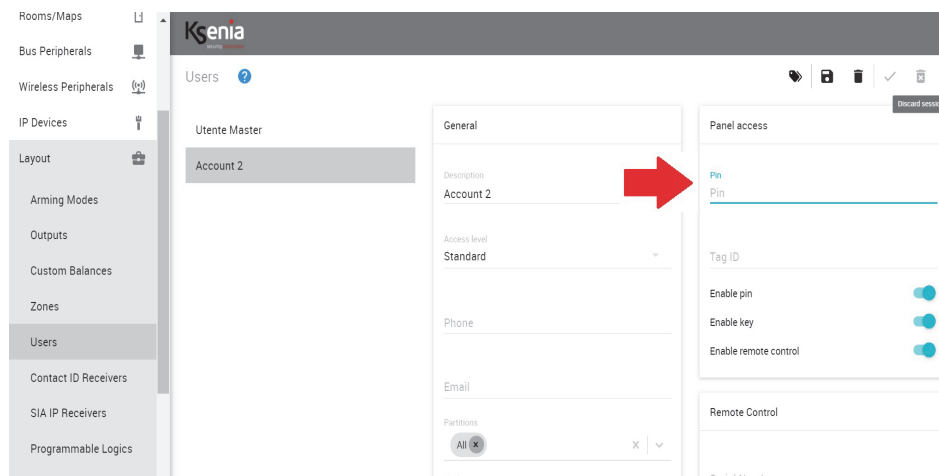
5. Create the scenarios that you plan to associate with the following functions of the driver interface for each partition:
  - Custom A Scenario
  - Custom B Scenario
  - Custom C Scenario

*For these functions you should configure a scenario does not arm the system, because it is not possible to configure zone bypassing from these Control4 commands.*

| Advanced Properties                     |                                               |
|-----------------------------------------|-----------------------------------------------|
| Properties                              | Actions Documentation Lua                     |
| Ksenia websocket IP address             | 172.16.112.6                                  |
| Ksenia websocket protocol               | TLS                                           |
| Ksenia websocket IP port                | 443                                           |
| Ksenia installer password               | 123456                                        |
| Ksenia user password                    | 234567                                        |
| Polling Period (minutes)                | 5                                             |
| Ks Last Config                          | Driver restarted, read from panel in 120 secs |
| Partition 1 Panic Scenario button       | read Ksenia Conf for list...                  |
| Partition 1 Away Scenario button        | read Ksenia Conf for list...                  |
| Partition 1 Home Scenario button        | read Ksenia Conf for list...                  |
| Partition 1 Stay Scenario button        | read Ksenia Conf for list...                  |
| Partition 1 Disarming Scenario function | read Ksenia Conf for list...                  |
| Partition 1 Arm Scenario button         | read Ksenia Conf for list...                  |
| Partition 1 Custom A Scenario function  | read Ksenia Conf for list...                  |
| Partition 1 Custom B Scenario function  | read Ksenia Conf for list...                  |
| Partition 2 Panic Scenario button       | read Ksenia Conf for list...                  |
| Partition 2 Away Scenario button        | read Ksenia Conf for list...                  |
| Partition 2 Home Scenario button        | read Ksenia Conf for list...                  |
| Partition 2 Stay Scenario button        | read Ksenia Conf for list...                  |
| Partition 2 Disarming Scenario function | read Ksenia Conf for list...                  |

### 3.2 STEP 2 - Control4 (Composer)

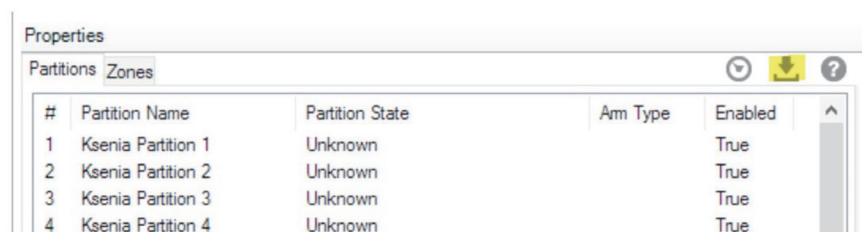
1. Install the "Ksenia lares 4.0" driver. Note: Control4 accepts only one security system, so no other security drivers should be installed.
2. In the driver properties (accessible from the "System Design" menu) set:
  - a. **Ksenia websocket IP address:** the IP address of the lares 4.0 control panel
  - b. **Ksenia installer password:** the installer PIN used in the system
  - c. **Ksenia user password:** dedicated user PIN, required for the activation of scenarios, bypass and automatic output from Control4 logic (programming and connections) to the Ksenia power plant. The user associated with the dedicated PIN must be associated with all the partitions, zones and outputs that are to be controlled by Control4's programming and connections. Note: we recommend creating a specific user to use for the purpose of integration.



3. Perform the **Read From Panel** and wait for the configuration reading to finish.
 

**Note 1:** the lares 4.0 control panel supports a limited number of websockets, so this operation must be carried out with at most 2 connections already open to the same control panel (pay particular attention to not having multiple browsers connected to the programming installer interface of the lares 4.0 , and smartphone apps).

**Note 2:** this operation may take several minutes depending on the complexity of the configuration of the lares 4.0 control panel. The good result is evident from the property named **Ks Last Config** that will report date and time of reading, when the reading starts, and will add, at the date and time, the word **"- DONE"** at the end of the configuration.



| # | Partition Name     | Partition State | Arm Type | Enabled |
|---|--------------------|-----------------|----------|---------|
| 1 | Ksenia Partition 1 | Unknown         |          | True    |
| 2 | Ksenia Partition 2 | Unknown         |          | True    |
| 3 | Ksenia Partition 3 | Unknown         |          | True    |
| 4 | Ksenia Partition 4 | Unknown         |          | True    |

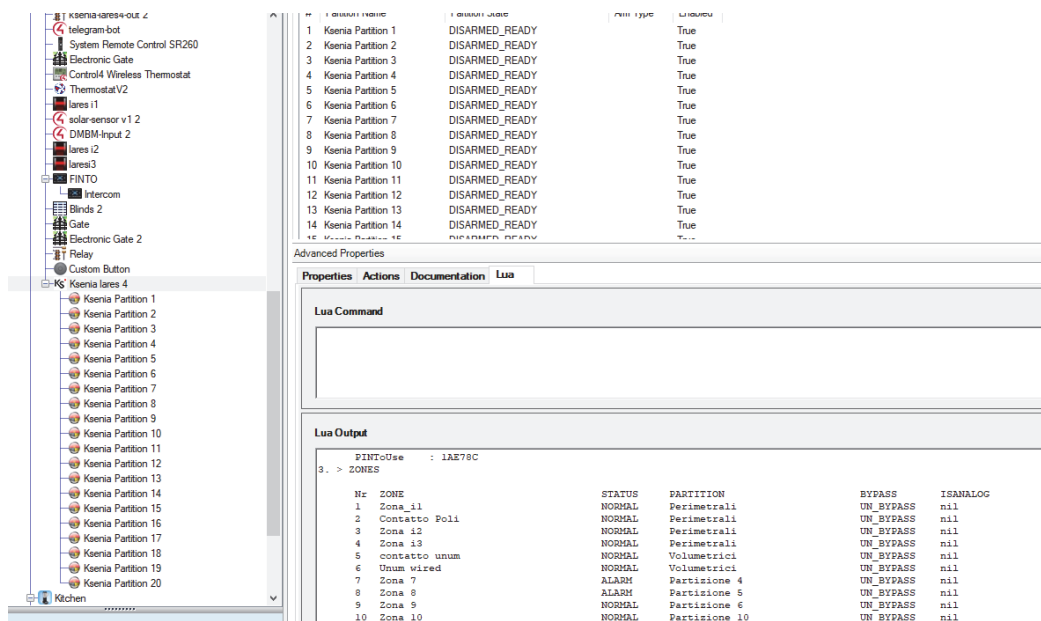
4. Check that the reading has been performed using the **Action "Display Status"** which prints the list of all the objects read updated in real time in the "Lua Output" console.
5. After reading, set the other driver properties:
  - **Polling Period (minutes):** time, in minutes, to verify the existence of the lares 4.0 / Control4 connection. If, for example, due to LAN malfunctions, the connection is not detected, the driver continues the periodic

check until the connection is restored. When restored, the Read From Panel function is automatically executed by restoring all lares 4.0 objects to the driver. The polling function can be deactivated by setting the property OFF value, but after a period of 60 minutes the function will be reactivated automatically, reporting the period to 5 minutes.

- **Ksenia's Partition <x> Panic Scenario** button: associated with the Emergency function of the Control4 interface for partition <x>.
- **Ksenia's Partition <x> Away Mode** button
- **Ksenia's Partition <x> Home Mode** button
- **Ksenia's Partition <x> Stay Mode** button
- **Ksenia's Partition <x> Disarming** function
- **Ksenia's Partition <x> Arm** button
- **Ksenia's Partition <x> Custom A** function
- **Ksenia's Partition <x> Custom B** function

If no scenario has been associated with these properties / functions, an error message (trouble) is displayed if the Control4 interface is called up.

NOTE: unfortunately, the security proxy of Control4 does not allow you to write / update the names of the partitions after having read them from lares 4.0. Using the **Actions "Display Status"** you can view and rename the partitions in use manually.



The screenshot shows the Ksenia Control4 interface. On the left, a tree view lists various components including 'Ksenia lares 4' and its partitions. The main panel displays a table of partition status and a 'Lua Output' window showing the results of a 'Display Status' action.

| Nr | ZONE          | STATUS | PARTITION     | BYPASS    | ISANALOG |
|----|---------------|--------|---------------|-----------|----------|
| 1  | Zona i1       | NORMAL | Perimetrali   | UN_BYPASS | nil      |
| 2  | Contatto Poli | NORMAL | Perimetrali   | UN_BYPASS | nil      |
| 3  | Zona i2       | NORMAL | Perimetrali   | UN_BYPASS | nil      |
| 4  | Zona i3       | NORMAL | Perimetrali   | UN_BYPASS | nil      |
| 5  | contatto unum | NORMAL | Volumetrici   | UN_BYPASS | nil      |
| 6  | Unum wired    | NORMAL | Volumetrici   | UN_BYPASS | nil      |
| 7  | Zona 7        | ALARM  | Partizione 4  | UN_BYPASS | nil      |
| 8  | Zona 8        | ALARM  | Partizione 5  | UN_BYPASS | nil      |
| 9  | Zona 9        | NORMAL | Partizione 6  | UN_BYPASS | nil      |
| 10 | Zona 10       | NORMAL | Partizione 10 | UN_BYPASS | nil      |

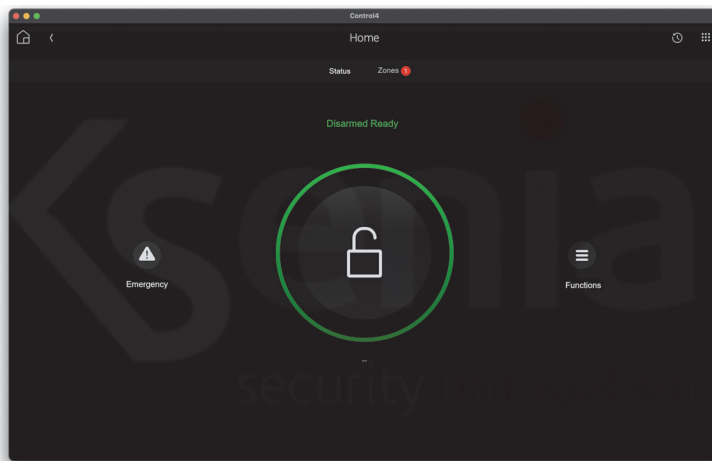
6. Perform a **navigator refresh** to update the Control4 interfaces.

## 4. Use of the drive

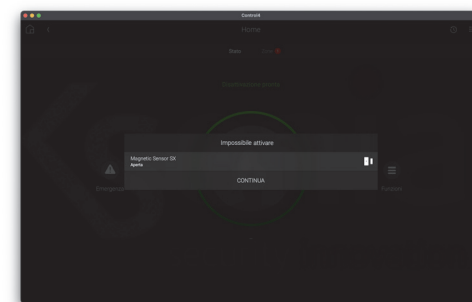
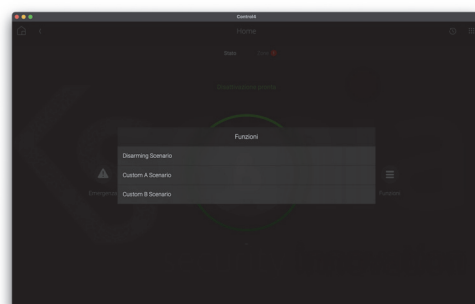
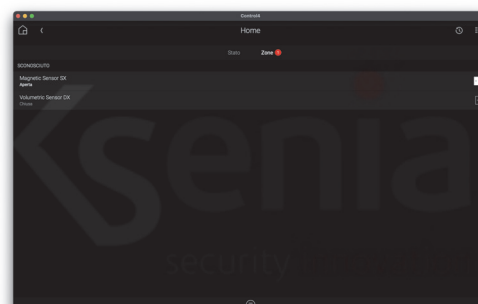
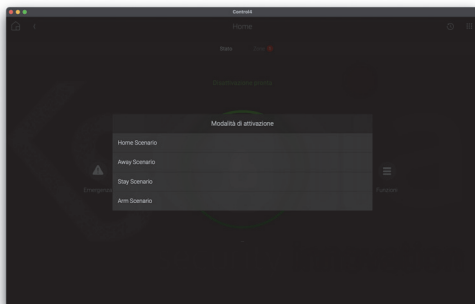
### 4.1 Interface and functionality in Composer

The driver allows following operation:

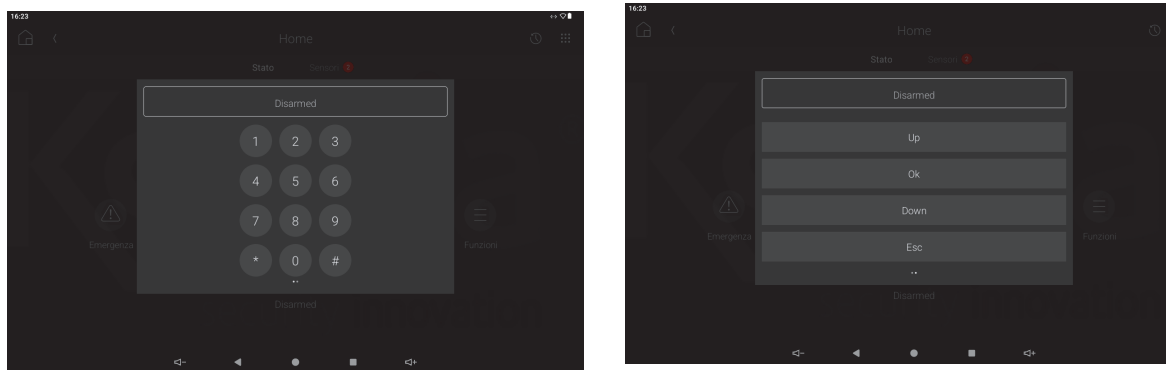
- Use the Control4 security proxy interface



- Use events, states, and functions provided by that proxy;



- Recall Ksenia **scenarios** using the custom keyboard of the interface, from which you can scroll through the scenarios with **Up** and **Down** keys, or quickly recall a scenario by typing the "PIN" + "scenario number".



- See the status of the zones of the lares 4.0 control panel:
  - in the driver **connections** as **CONTACT\_SENSOR**;
  - in **programming** as variables for both state management and **Bypass** status control (see ["Appendix" page 18](#));
  - in the Control4 UI as provided by the security interface;
- See the status of the output of the lares 4.0 control panel:
  - in the driver **connection** as **RELAY**;
  - in **programming** as variables (see ["Appendix" page 18](#));
- See the status of Partitions of lares 4.0 control panel;
  - in **programming** as variables (see ["Appendix" page 18](#));
- Recall the scenarios of the lares 4.0 control panel from programming.

## 4.2 Actions

### 4.2.1 Date and Licence

Prints the date and re-appear in the "**License Code**" **property**, to be used in case of license and / or license related changes (for example incorrectly typed value).

### 4.2.2 Print Log Tags

Prints the TAGs used to characterize debugged message consoles. Such messages and such TAGs are decided by the developers at the time of creating the driver. Choosing to characterize messages is intended to speed up possible debugging and erroneous settings of the two systems.

### 4.2.3 Display Status

Prints the status of the lares control panel read from the Driver in the console. This provides an overview of zones, partitions, outputs and scenarios, and lares 4.0 control panel information such as internal and external temperature and SIM status.

This is useful for verifying the status of Control4 / Ksenia communication and to check names and states of all lares 4.0 system components.

#### **4.2.4 Display C4 Variable**

---

Prints all the variables in the driver, their properties, and their status.

#### **4.2.5 Remove old Variable and Output**

---

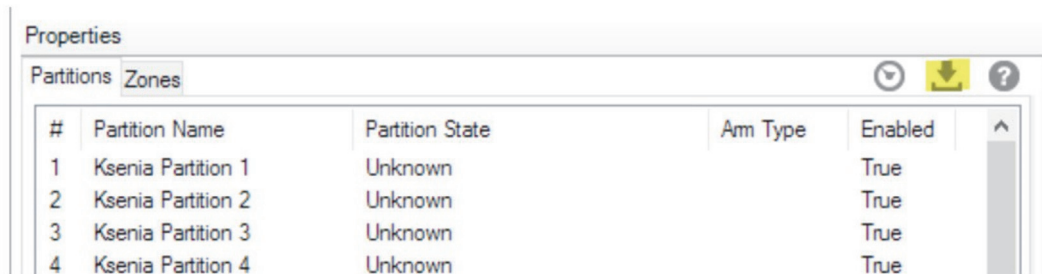
If you change the configuration of the lares 4.0 control panel, you can use this action to remove all the variables and outputs that are no longer used.

NOTE: We recommend using this feature at a time when other settings or readings are not being performed, to avoid misalignments and complete malfunctions.

### 4.3 Configuration update

In case of updates of the configuration of lares 4.0 from the installer interface such as insertion or removal of **zones**, **partitions**, **outputs**, it is necessary to re-read the configuration.

NOTE: it is important to set the **property Polling Period (minutes)** to "OFF" before updating the lares 4.0 control panel. The same is automatically restored after 60 minutes (returning the value to 5 minutes).



| # | Partition Name     | Partition State | Arm Type | Enabled |
|---|--------------------|-----------------|----------|---------|
| 1 | Ksenia Partition 1 | Unknown         |          | True    |
| 2 | Ksenia Partition 2 | Unknown         |          | True    |
| 3 | Ksenia Partition 3 | Unknown         |          | True    |
| 4 | Ksenia Partition 4 | Unknown         |          | True    |

### 4.4 Troubleshooting

#### 4.4.1 Configuration mismatch lares 4.0/Control4

It is not expected that configuration mismatching will occur in normal use. This situation can only be created during configuration by re-reading the Composer because the Control4 security proxy in some cases has problems while interfaces are updating.

If the "Display Status" action correctly displays all the elements configured on lares, but some of them are not displayed on Control4 interfaces, it is suggested that you try to fix it by performing a driver update. In any case, it is strongly advised to do the following:

1. configure all lares parameters in the most definitive way possible
2. install the driver on Control4
3. read the configuration of the lares 4.0 control panel

#### 4.4.2 Practice for testing and putting into production

If communication tests are carried out in a "test" configuration, it is good practice to switch from test to production by following the procedure below:

1. Delete the driver,
2. Refresh the interfaces,
3. Re-install the driver
4. Read the configuration of the lares 4.0 control panel

**WARNING:** Deleting the driver always generates the loss of all connections and programming already done.

## 5. Appendix

### 5.1 Events or Action (triggering in programming)

| Proxy                 | Events or Action        | When it happens                                                                                                                                                               |
|-----------------------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Security Panel Events | Trouble Start           | A "trouble" message is sent.                                                                                                                                                  |
|                       | Trouble Clear           | The trouble message is cleared. it is automatic for messages managed by the driver, it is to be handle for messages sent with the variable "KS_TROUBLE_TEXT" described below. |
| Security Panel Action | In Trouble              | True (1) when the partition is displaying a trouble message, False (0) when the problem is cleared.                                                                           |
| Partition Panel       | Alarm                   | When partition alarm occurs.                                                                                                                                                  |
|                       | Alarm Clear             | When the partition is disarmed, but it also activates when it restarts the alarm after a first Alarm event.                                                                   |
|                       | Disarmed                | When partition is disarmed.                                                                                                                                                   |
|                       | Armed                   | When partition is armed.                                                                                                                                                      |
|                       | Partition State Changed | When partition status changes.                                                                                                                                                |
|                       | Arm Failed              | When a partition is not ready to arm.                                                                                                                                         |
|                       | Disarm Failed           | Event not supported.                                                                                                                                                          |
|                       | Emergency Triggered     | When panic button is pressed.                                                                                                                                                 |

|                         |                  |                                                                                                                                  |
|-------------------------|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Partition Panel Action  | Arm              | Set the partition default user code.                                                                                             |
|                         | Disarm           | Set the partition default user code.                                                                                             |
|                         | Emergency        | A function must be set from the Ksenia's scenario for Panic button property drop-down menu.                                      |
|                         | Execute Function | Select one of the features available on the interface, SIM Data, Temperatures, DisarmAll. (Set the partition default user code). |
|                         | Arm All          | Set the partition default user code.                                                                                             |
|                         | Disarm All       | Set the partition default user code.                                                                                             |
| Device Specific Command | Call scenario    | It allows to recall a Ksenia scenario using its numeric ID (obtainable from Display Status).                                     |
|                         | ByPass_Zone      | It allows to bypass a zone through its numeric ID (obtainable from Display Status).                                              |
|                         | UnByPass_Zone    | It allows to remove the bypass of a zone through its numeric ID (obtainable from Display Status).                                |

## 5.2 Security Panel - Device Variables

| Variable             | Type   | Description                                                                                                                                                       | Readonly/Writeable |
|----------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| TROUBLE_TYPE         | String | Trouble message.                                                                                                                                                  | R                  |
| KS_TROUBLE_TEXT      | String | It sends a trouble message that remains in the UI until the variable is overwritten. To clean the display, set it to an empty string.                             | W                  |
| KS_LastZoneAlarmed   | String | It contains the name of the last alarmed zone.                                                                                                                    | R                  |
| KS_LastAlarmMessage  | String | Contains the text of the last alarm message displayed on the Control4 interfaces (in the format "[Partition_ Name] is [Partition Status]: [KS_LastZoneAlarmed]"). |                    |
| KS_PartitionsChanged | String | It contains the name of the last partition that has changed status and its status in format: "[Partition Name]> [Status]".                                        | R                  |

|                     |        |                                                                                                                                                                                                                                                                                                                                                 |   |
|---------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| KS_PartitionsMask   | String | <p>List of ordered numbers representing the state of the partitions (updated at each variation). The states are so encoded:</p> <p>0 = DISARMED_READY<br/> 1 = ARMED<br/> 2 = ALARM<br/> 3 = EXIT_DELAY<br/> 4 = ENTRY_DELAY</p> <p>For example: 012 means that the first partition is DISARMED, the second is ARMED, the third is ALARMED.</p> | R |
| P_[namePartition]   | String | <p>Status of the single partition can assume the values: DISARMED_READY<br/> ARMED EXIT_DELAY ENTRY_DELAY<br/> DELAY states occur even if time is zero.<br/> They do not show if they use the "no delays" or "immediate alarm" options</p>                                                                                                      | R |
| P-N_[namePartition] | String | It contains the name of the partition to be used for any "communications" to the UI.                                                                                                                                                                                                                                                            | R |
| Z_[nameZone]        | String | <p>Status of a single zone: NORMAL<br/> ALARM MASK TAMPER</p>                                                                                                                                                                                                                                                                                   | R |

| Variable        | Type   | Description                                                                                                                          | Readonly/<br>Writeable |
|-----------------|--------|--------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Z-BP_[nameZone] | Bool   | Set the bypass status of a zone: true = BYPASS<br>false = UN_BYPASS<br>Warning: The status of the bypassed zones is<br>always NORMAL | W                      |
| Z-N_[nameZone]  | String | It contains the name of the zone to be used for<br>any "communications" to the UI                                                    | R                      |
| O_[nameOutput]  | Bool   | Sets the status of an Output: true = Closed/On<br>false = Opened/Off                                                                 | W                      |
| GSM_operator    | String | Contains GSM carrier name                                                                                                            | R                      |
| Sim1_Credit     | Number | It contains the SIM 1 credit (integer)                                                                                               | R                      |
| Temp_Indoor     | Number | Indoor temperature                                                                                                                   | R                      |
| Temp_Outdoor    | Number | Outdoor temperature                                                                                                                  | R                      |

### 5.3 Partitions

| Variable             | Type    | Description                                                                                                                                                        | Readonly/<br>Writeable |
|----------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| DISARMED_STATE       | Bool    | True (1) if disarmed otherwise it is False (0).                                                                                                                    | R                      |
| AWAY_STATE           | Bool    | True (1) if in alarm state, otherwise it is False (0).                                                                                                             | R                      |
| DISPLAY_TEST         | String  | It contains the message displayed on the single partition.                                                                                                         | R                      |
| TROUBLE_TEST         | String  | Trouble message.                                                                                                                                                   | R                      |
| IS_ACTIVE            | Bool    | True (1) if the partition is active and it can be used otherwise it is False (0)                                                                                   | R                      |
| PARTITION_STATE      | String  | Text representing the current state of the partition.                                                                                                              | R                      |
| DELAY_TIME_TOTAL     | integer | It works on both Entry and Exit, it contains the total duration of the current delay. If I do not have a delay, it is 0                                            | R                      |
| DELAY_TIME_REMAINING | integer | It contains the remaining time after the delay expires, if I do not have a delay it is 0                                                                           | R                      |
| OPEN_ZONE_COUNT      | integer | It is the number of open zones in the partition, usually it is useful when the arm status is DISARMED_NOT_READY.                                                   | R                      |
| ALARM_TYPE           | String  | It contains a description of the alarm condition if they are in alarm state, the possible alarm states are: Burglary and Panic. If it is not in Alarm it is empty. | R                      |
| ARMED_TYPE           | String  | Last Date Fail To Close. Attention is never cleaned.                                                                                                               | R                      |
| LAST_EMERGENCY       | String  | If Panic function is used this variable contains PANIC                                                                                                             | R                      |
| LAST_ARM_FAILED      | String  | It contains Date of last Fail To Close. Attention is never cleaned.                                                                                                | R                      |

