USER MANUAL


# USER GUIDE V.1.0

SLC ADAPT EXPLORER

salicru

## General index

# 1. WHAT IS ADAPT2 EXPLORER?

ADAPT2 EXPLORER is a software created and distributed by SALICRU S.A. based on our ODYSSEY EXPLORER interface engine. It is specifically designed to monitor and control the ADAPT2 devices manufactured by SALICRU S.A.

This software is free but access to it requires a paid license distributed and controlled by SALICRU S.A. If you do not have a licence for the use of this software, please contact us at www.salicru.com.

## 1.1. PREREQUISITES.

- Operating system: Windows 7 / Windows 10.
- Hardware: Communication between software and UPS will be made using a MicroUSB 2.0 cable.
- Additional software: Microsoft VC++ updated.

## 1.2. STARTING ADAPT2 EXPLORER.

### 1.2.1. License window.

#### 1.2.1.1. Definition of items.


1. Title.
2. Windows dashboard.
3. Commercial banner.
4. Text box for credentials.
5. Help text.
6. Check on conditions of use.
7. Conditions of use.
8. Exit button.
9. Credentials check button.

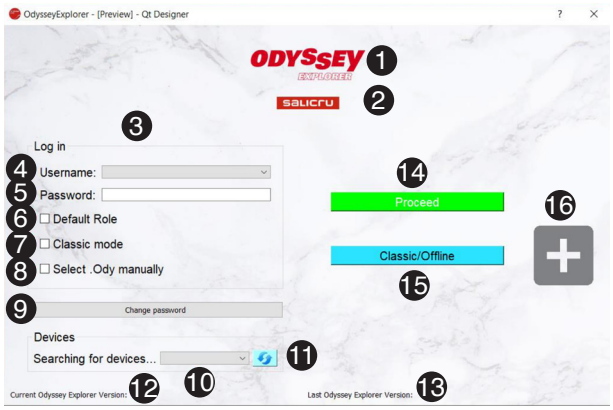
#### 1.2.1.2. Description of the window.

The purpose of this window is to check the user's credentials before proceeding to different features available to the UPS in subsequent windows, built according to the level of access that the credentials inserted here will grant.

The standard access procedure is as follows:

- Enter the credentials given by SALICRU.S.A in the corresponding text box (item 4).
- Accept the conditions of use of the software by ticking the corresponding box (item 6).
- Click on the button (item 9) to check the credentials entered in the text box (element 4). This process requires an active internet connection.
- If the credentials entered are correct, proceed to the following windows. Otherwise follow the instructions shown in the help text (item 5).

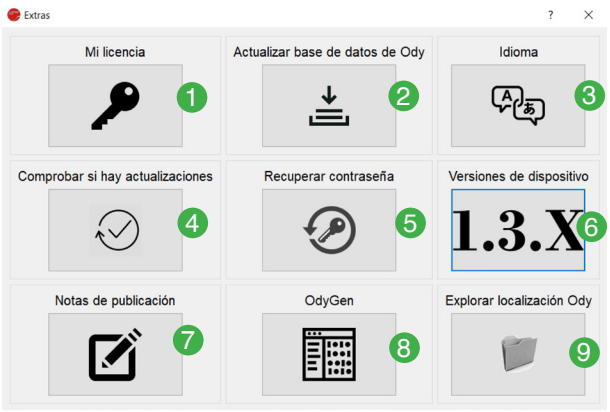
### 1.2.2. Login window.




#### 1.2.2.1. Definition of items:

1. Core software banner.
2. Commercial banner.
3. Grouping of login options.
4. Role selection.
5. Role password.
6. Default role selector.
7. Classic mode selector.
8. Manual .ody* file selection.
9. Password change button.
10. Device selector.
11. Refresh active units button.
12. Current version of Odyssey.
13. Latest version of Odyssey.
14. Button to proceed with selected/default interface.
15. Button to proceed with Odyssey Classic software without device.

16 Extra Functionalities:




1 Current licence management (view licence end dates, view available devices and roles).

2 Update of local **.ody** files. (internet connection required)

3 Language change.

4 Checking for new versions. (internet connection required).

5 Password recovery (internet connection required).

6 Display detailed information about connected devices.

7 Open the notes file of the current software version.

8 Open the odygen application. (for developers only).

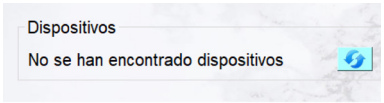
9 Open the default path to the **.ody** files in the file explorer.

1.2.2.2. Description of the window.

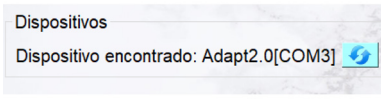
The purpose of the login window, as its name indicates, is to be able to log in to the selected device with a role defined by the licence you have purchased and a password that will be given to you together with the licence; this password can be changed in this same window at any time.

The standard procedure to log in to the UPS and then access the customised interface is as follows:

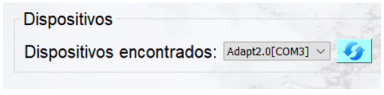
- If our UPS was not connected at the time the software was started, connect it and press the refresh units button (11) so that it appears in your list of connected units (10).




DEVICE NOT CONNECTED

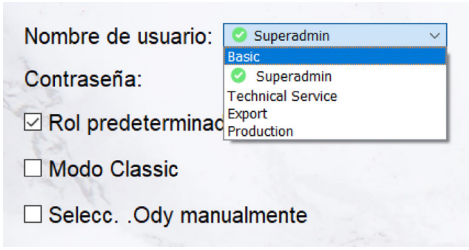



1 DEVICE FOUND

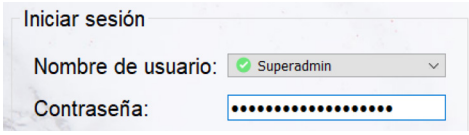



2+ DEVICES FOUND

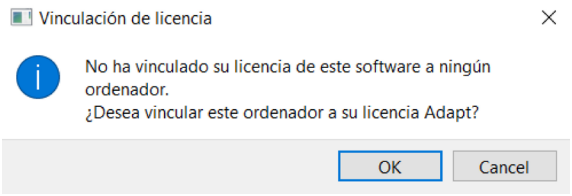
- If there is more than one UPS connected to the computer at the same time, select the desired device in the list of connected units (10), otherwise there will only be one device and you will not have to select it manually.
- After selecting the UPS you want to connect, in the user selection box (4) select the role you want to identify yourselves with in the device (these are determined by the licence).




- Now enter the password associated with the selected user in the corresponding box (5), except for the Basic user, which does not have an associated password.

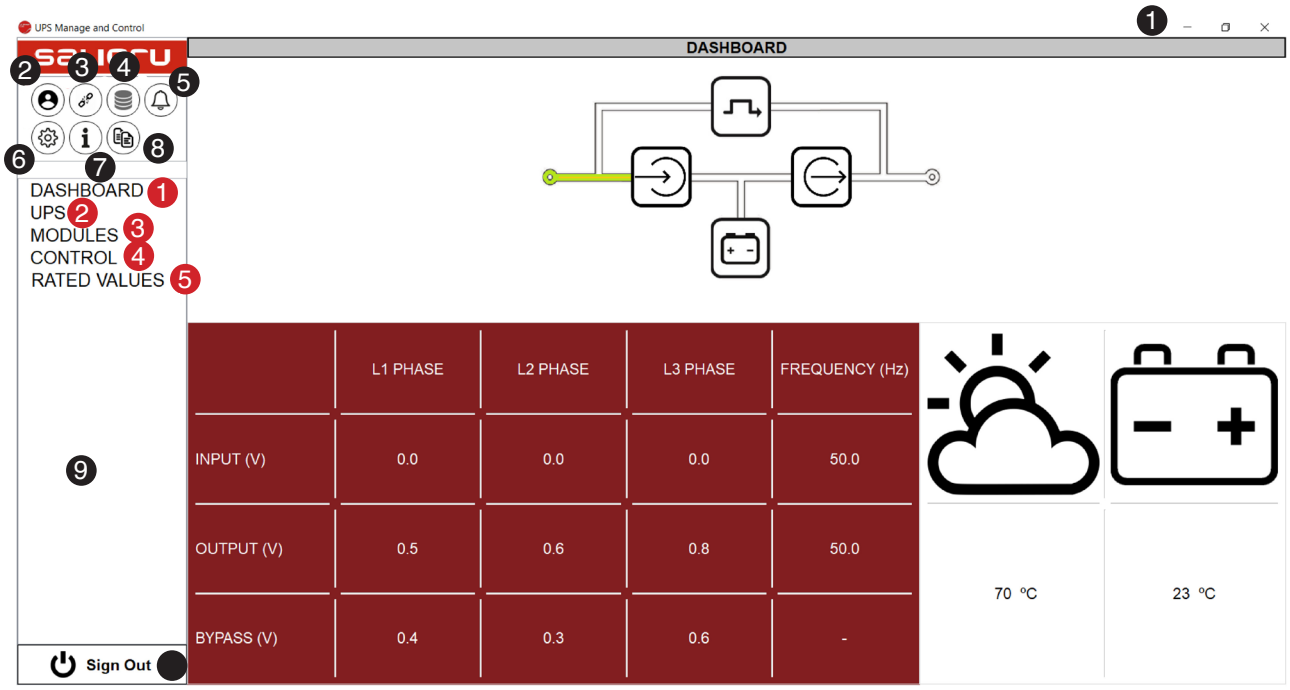



- Then log in to the device by pressing the proceed button (14 ), if the credentials are correct you will be able to continue with the specific ADAPT EXPLORER interface.
- If this is the first time you connect to this interface with the current licence, you will be asked to link the computer you are using to that licence. This option is fully reversible in the licence management section (16.1)



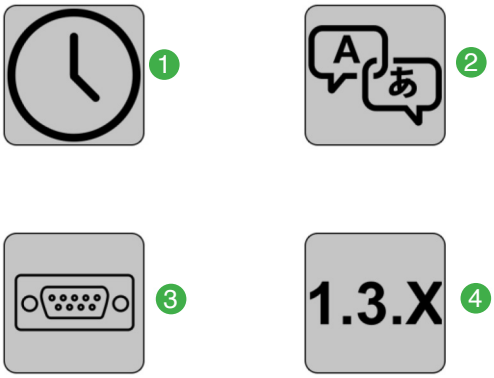

- At this point, it will check if the necessary .ody file is available to interpret the data coming from the device. These files are automatically downloaded in the background every time the software is run if there is an active internet connection.
- If the credentials are correct, the procedure runs correctly and the software integrity checks are satisfactory, proceed to the ADAPT EXPLORER interface.

## 2. ADAPT2 EXPLORER.




### 2.1. DEFINITION OF ITEMS.

1. Windows dashboard.
2. Button to hide/show the left side menu.
3. Interrupt/resume communication.
4. Odyssey database management (alarm history).
5. Direct access to system alarms.
6. Configuration.

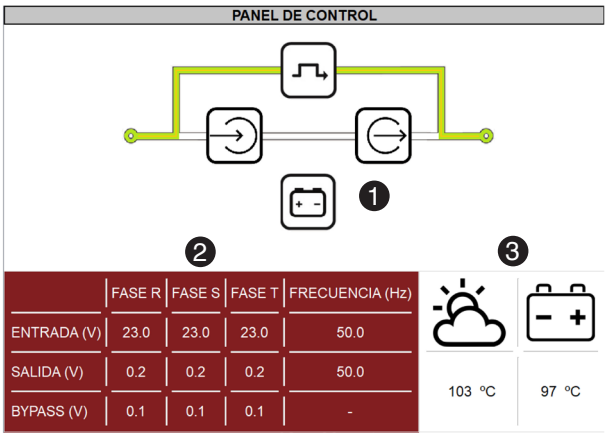




1. Set device time.
2. Change interface language.
3. Configure the communication protocols of the device.
4. Device details.

7. Software information.
8. NVM file management.
9. Window selection menu.
   1. Control panel.
   2. UPS monitoring and management.
   3. Module monitoring and management.
   4. Control panel.
   5. Display of the nominal parameters of the device.

Exit.

### 2.2. CONTROL PANEL.



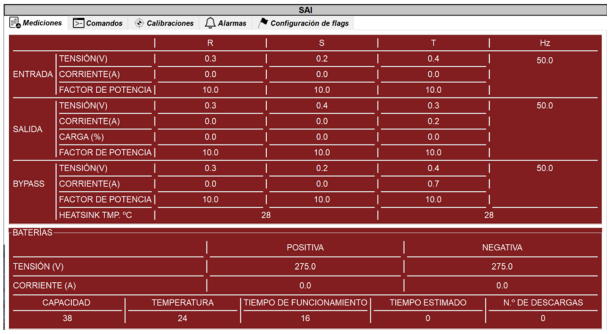

This window is to be used for interface landing, to find out the status of your ADAPT2 unit at a quick glance, giving you graphic view of the current flow in your device (1), temperature (3) and main voltages (2).

## 2.3. UPS.

The UPS section focuses on concentrating all the measurements, commands and actions available in the interface that concern the management of the bypass module in ADAPT2.

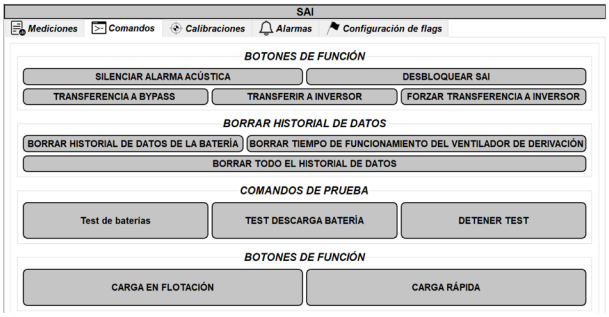
This section contains the following sub-sections detailed below:

### 2.3.1. Measurements.




The UPS measurements window shows the current values of the bypass module quickly and concisely. The values shown are voltage, current, frequency and temperatures, among others.

### 2.3.2. Commands.

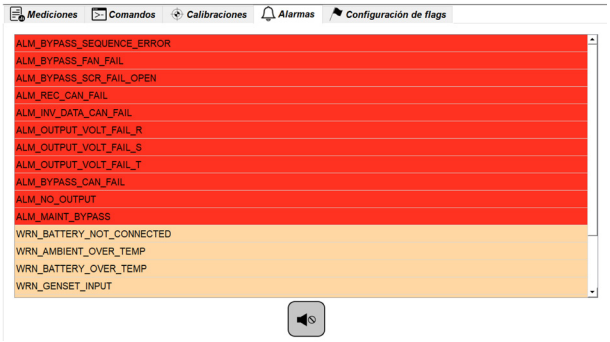



The UPS COMMANDS window allows you to execute several specific functions of the bypass module. To execute any of the commands shown in this window, simply press the button associated with the command.


COMMAND SENT CORRECTLY


ERROR SENDING THE COMMAND

### 2.3.3. Alarms.




This window shows the user the alarms and warnings active in the UPS in real time. The alarms can be in two states: acknowledged and unacknowledged.

The interface uses the following icon to communicate from any window the status of the alarms and whether they are acknowledged or unacknowledged.

UPS ALARMS

This icon has the following statuses that indicate at a quick glance the status of the UPS alarms and warnings:

- Fixed white. No alarm or warning active.
- Flashing Red-White. Active alarms not acknowledged.
- Fixed Red. Active alarms acknowledged.
- Fixed Orange. Only warnings.

#### 2.3.3.1. Acknowledge alarms.

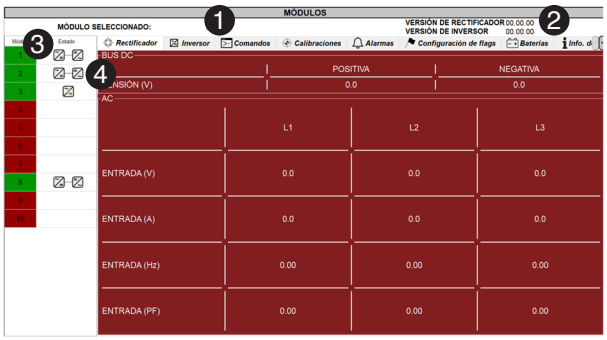
The UPS will automatically emit an intermittent beep when an alarm appears, and by default it will appear unacknowledged. To stop this beep you must acknowledge the active alarms by pressing the button  .

Once pressed, the alarms that were active at the time of pressing will be marked as acknowledged and will no longer activate the beep.


## 2.4. MODULES.

The ADAPT2 is a modular unit that distributes its functions and loads among the different modules it contains, which are mainly 3 types: Bypass or control module, UPS modules and battery charger modules.

The Adapt Explorer interface has a specific section to view and manage them.



The more generic interface section of this paragraph contains the following items that will facilitate the control and management of the connected modules. In the upper left corner is the current module indicator (1) that shows the last selected module or the one selected by default. In the upper right corner are the versions of the components of the selected module.

Finally, the module selection window shows the modules (3) and their status (4) (green connected, red disconnected). To change the selected module, just click on one of the connected modules and you will see how the indicator (1) and the module parameters adapt to the selection made.

### 2.4.1. Readings and information (Rectifier, Inverter, Batteries, Info).

The Modules sub-sections contain measurements of the rectifier, inverter, batteries and information on the module where the values of several parameters of these are shown (measurements, versions, values, etc.).





### 2.4.2. Commands.


The UPS and ADAPT2 module commands follow the same logic as those of the bypass module.

See UPS -> COMMANDS

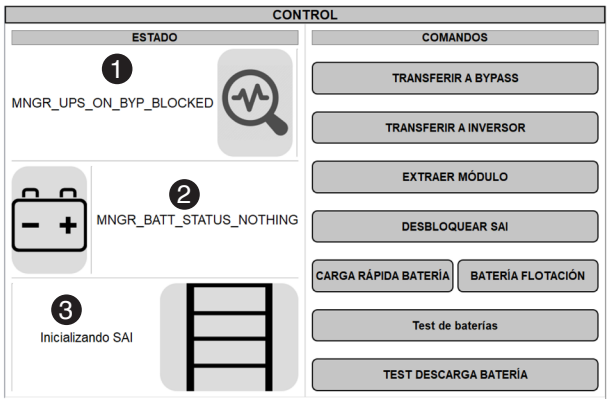
### 2.4.3. Alarms.



UPS modules can also generate alarms and warnings if something is not working as it should. Unlike the Bypass module alarms, these will not generate an audible alarm on their own so they do not follow the acknowledgement logic like the Bypass ones.

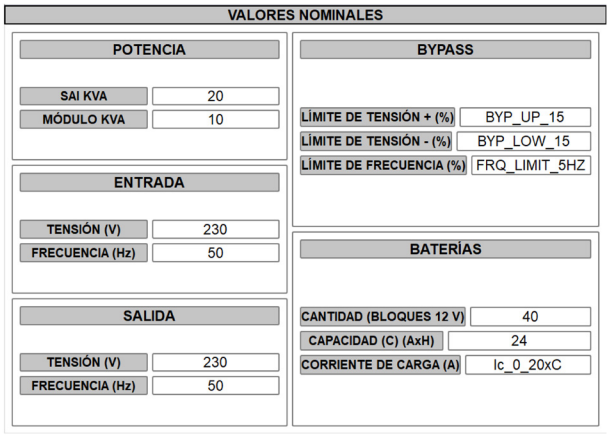
This window is for information only as you cannot interact with these alarms through this point of the interface.

## 2.5. CONTROL.




This window gives you general control of the UPS status using the commands located on the right; on the left we can observe some of the more generic status indicators of the device such as UPS status (1), battery status (2) or status of the modules as a whole (3).

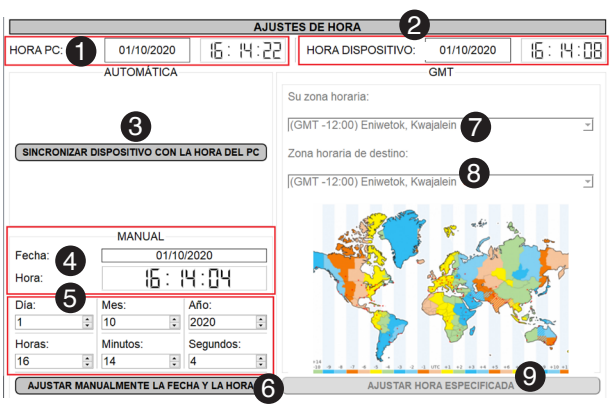
## 2.6. NOMINAL VALUES.




This window shows the key parameters that define the device, such as the input and output voltages and its power supply (kVA).

## 2.7. CONFIGURATION.

### 2.7.1. System time.




This device configuration window allows you to view the time of the device (2) and of the computer (1) and to configure its time using the explorer, either manually (6) or automatically (3).

#### SETTING TIME AUTOMATICALLY

The explorer allows you to automatically adjust the time of the device to local time by simply pressing the synchronisation button (3). You will be able to see if the device has been synchronised if both clocks (1 and 2) coincide after this process.

#### SETTING TIME MANUALLY

If you want to set the time manually, the explorer offers the necessary tools to do so and these consist of the time parameter selectors (5) and a preview of the time you are going to set on the device (4).

To set the time manually, simply enter the desired time parameters and when you are satisfied with the preview, press the time setting button (6).

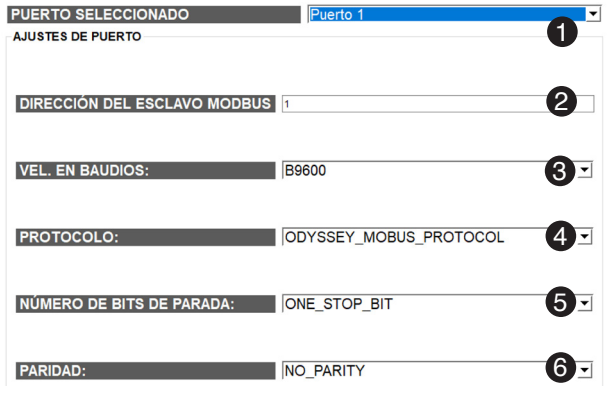
#### SETTING TIME BY GMT

Pending development

### 2.7.2. Interface language.


The Adapt Explorer interface can be displayed in several languages, and is currently available in Spanish, English, German, Portuguese and French. To change the language, simply click on the button with the corresponding flag.

### 2.7.3. Communications.



The communications window allows you to configure and change the parameters of the different communication ports available in the device.

Specifically in the ADAPT2 device, the address of the ModBus slave (2) can be changed by configuring port 1.

## 2.8. NVM FILES

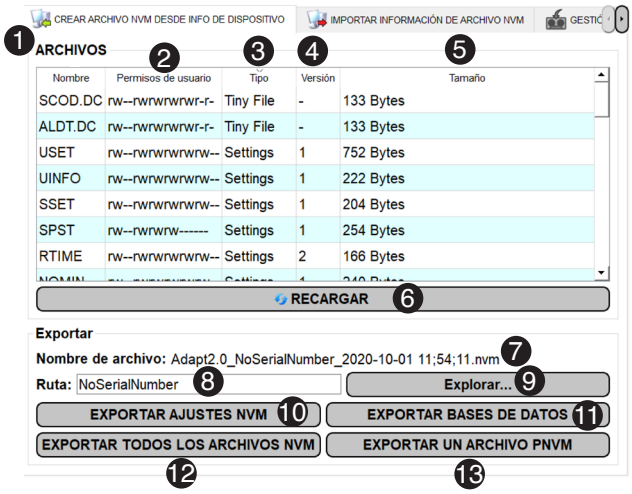
Odyssey base devices have an internal file system that allows them to store changed parameters in non-volatile memory (Non-Volatile Memory).

The management and handling of these files allows the device to have very useful functions and possibilities such as the cloning of devices or the creation of factory parameter recovery files, among others.

The NVM files window shows details of the following sections:

- Export NVM files
- Import NVM files

### 2.8.1. Export NVM files.



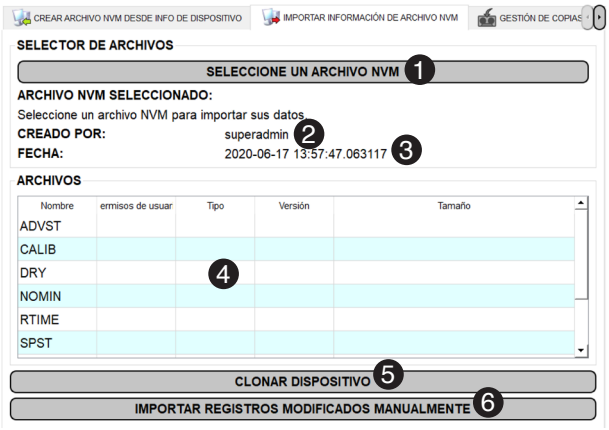

This section of the NVM file system allows you to extract the information stored in these NVM files in the form of a file for later use, processing or analysis.

When accessing this section, the file table will be completed with the current information on the files existing in the system; to update this information, just click on the refresh information button (6).

You can extract this information in different formats in the directory selected using the button with text "Explore..." (9), the selected path will appear in the directory text box (8). Now that you have selected the directory, you can extract the device information in different formats.

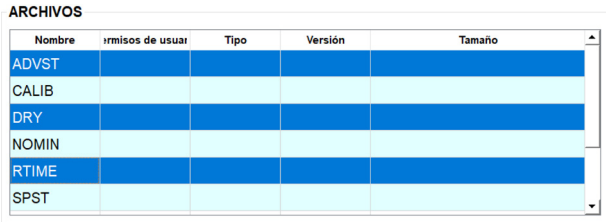
- EXPORT NVM SETTINGS (●)
  - ❒ This option will extract the configuration of each device stored in its internal files in a file in text format.
- EXPORT DATABASES (11)
  - ❒ This option will extract all files related to the internal Odyssey system databases.
- EXPORT ALL NVM FILES (●)
  - ❒ This option will extract all the files contained in the memory of the device.
- EXPORT A PNVM FILE (●)
  - ❒ This option will extract all configuration files in a format interpretable by experts.

### 2.8.2. Import NVM files.




NVM files are imported to a unit to analyse the data collected in another unit in real time or to establish the parameters of the files in your unit and therefore "cloning" the original one.

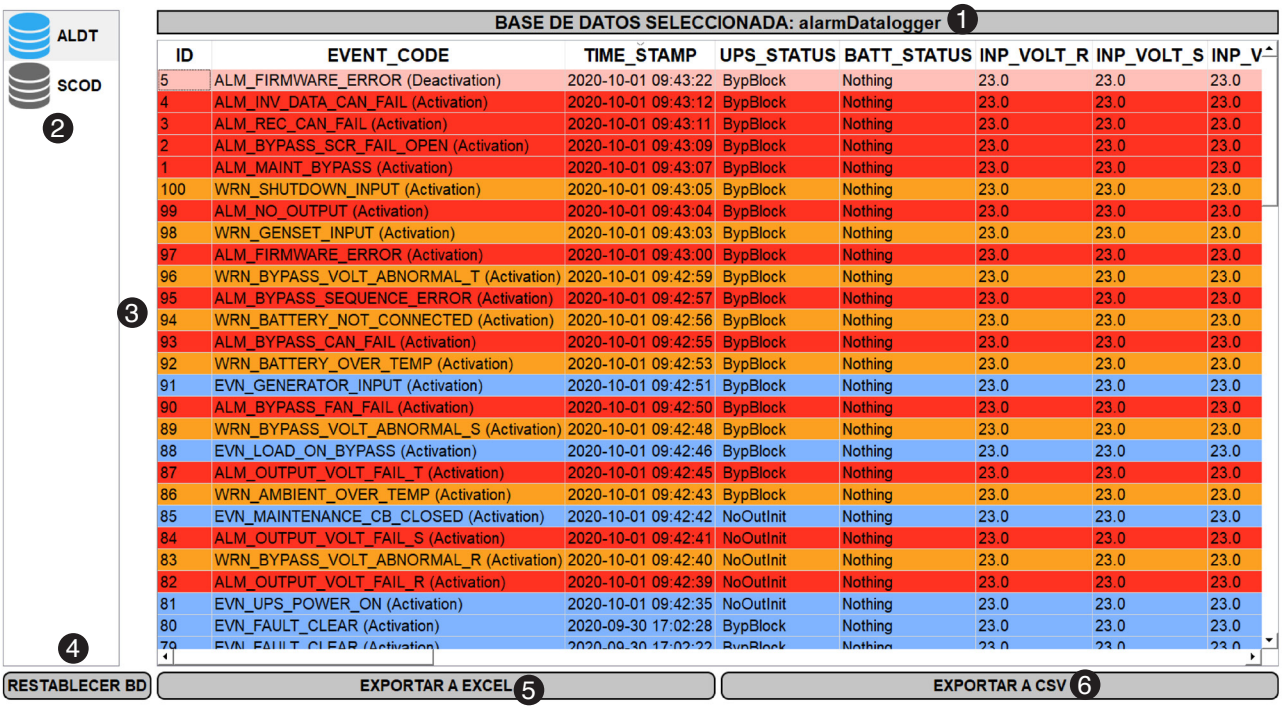
To import the parameters of an NVM file, click on the file selection button (1) and select the .zip .csv or .nvm file in file explorer. Once selected, the files contained in the archive will appear in the file table (4) and you can select those you want to import.




If you have the necessary permissions, the interface will allow you to import the data in two different ways: Cloning (5) and importing (6)

Both will trigger an import process that will establish the parameters contained in the selected file in the device. In the case of cloning, any changes made may require restarting the device.

## 2.9. ODYSSEY DATABASES.




| ID | EVENT_CODE | TIME_STAMP | UPS_STATUS | BATT_STATUS | INP_VOLT_R | INP_VOLT_S | INP_V |
|---|---|---|---|---|---|---|---|
| 5 | ALM_FIRMWARE_ERROR (Deactivation) | 2020-10-01 09:43:22 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 4 | ALM_INV_DATA_CAN_FAIL (Activation) | 2020-10-01 09:43:12 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 3 | ALM_REC_CAN_FAIL (Activation) | 2020-10-01 09:43:11 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 2 | ALM_BYPASS_SCR_FAIL_OPEN (Activation) | 2020-10-01 09:43:09 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 1 | ALM_MAINT_BYPASS (Activation) | 2020-10-01 09:43:07 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 100 | WRN_SHUTDOWN_INPUT (Activation) | 2020-10-01 09:43:05 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 99 | ALM_NO_OUTPUT (Activation) | 2020-10-01 09:43:04 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 98 | WRN_GENSET_INPUT (Activation) | 2020-10-01 09:43:03 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 97 | ALM_FIRMWARE_ERROR (Activation) | 2020-10-01 09:43:00 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 96 | WRN_BYPASS_VOLT_ABNORMAL_T (Activation) | 2020-10-01 09:42:59 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 95 | ALM_BYPASS_SEQUENCE_ERROR (Activation) | 2020-10-01 09:42:57 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 94 | WRN_BATTERY_NOT_CONNECTED (Activation) | 2020-10-01 09:42:56 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 93 | ALM_BYPASS_CAN_FAIL (Activation) | 2020-10-01 09:42:55 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 92 | WRN_BATTERY_OVER_TEMP (Activation) | 2020-10-01 09:42:53 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 91 | EVN_GENERATOR_INPUT (Activation) | 2020-10-01 09:42:51 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 90 | ALM_BYPASS_FAN_FAIL (Activation) | 2020-10-01 09:42:50 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 89 | WRN_BYPASS_VOLT_ABNORMAL_S (Activation) | 2020-10-01 09:42:48 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 88 | EVN_LOAD_ON_BYPASS (Activation) | 2020-10-01 09:42:46 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 87 | ALM_OUTPUT_VOLT_FAIL_T (Activation) | 2020-10-01 09:42:45 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 86 | WRN_AMBIENT_OVER_TEMP (Activation) | 2020-10-01 09:42:43 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 85 | EVN_MAINTENANCE_CB_CLOSED (Activation) | 2020-10-01 09:42:42 | NoOutInit | Nothing | 23.0 | 23.0 | 23.0 |
| 84 | ALM_OUTPUT_VOLT_FAIL_S (Activation) | 2020-10-01 09:42:41 | NoOutInit | Nothing | 23.0 | 23.0 | 23.0 |
| 83 | WRN_BYPASS_VOLT_ABNORMAL_R (Activation) | 2020-10-01 09:42:40 | NoOutInit | Nothing | 23.0 | 23.0 | 23.0 |
| 82 | ALM_OUTPUT_VOLT_FAIL_R (Activation) | 2020-10-01 09:42:39 | NoOutInit | Nothing | 23.0 | 23.0 | 23.0 |
| 81 | EVN_UPS_POWER_ON (Activation) | 2020-10-01 09:42:35 | NoOutInit | Nothing | 23.0 | 23.0 | 23.0 |
| 80 | EVN_FAULT_CLEAR (Activation) | 2020-09-30 17:02:28 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |
| 79 | EVN_FAULT_CLEAR (Activation) | 2020-09-30 17:02:22 | BypBlock | Nothing | 23.0 | 23.0 | 23.0 |

The NVM files allow you to collect information on the different events that occur in the device in order to visualise and analyse it later. By default, Odyssey collects the events and alarms that occur in the device in a database called ALDT; the Adapt device collects additional information on these items in a parallel database called SCOD.

To extract the information from these databases, double click on the database you want to analyse in the database selector (2).


Database not selected


Database selected

The screen will then show all files that make up the database being read. When this is finished, the records and alarms will be shown with the date they appear in the table.

The records are complemented with a palette of colours that give additional information about the event at first glance. These colours follow the code below:

- Alarm deactivation.
- Alarm activation
- Warning deactivation
- Warning activation
- Event

This data extracted from NVM files can be exported to csv (,) or Excel (;) format using the export buttons (5 and 6).

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08460 Palautordera
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Fax +34 93 848 22 05
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**SALICRU.COM**

Information about our technical service and support network (T.S.S.), sales network and warranty is available on our website:
**www.salicru.com**

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Photovoltaic Inverters
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