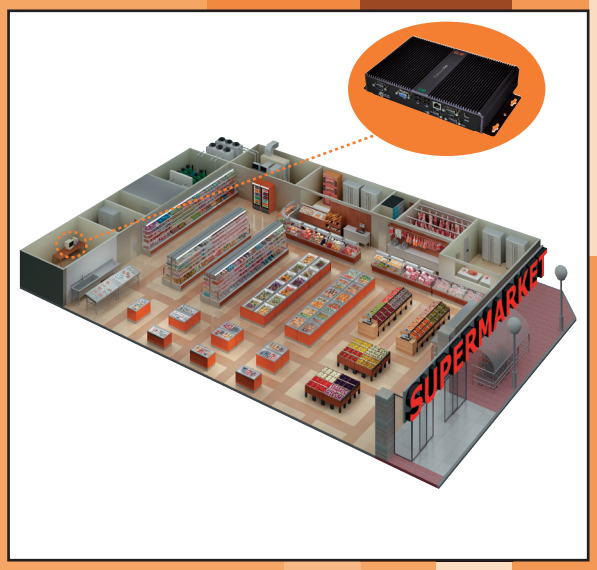
TelevisGo

Monitoring and control have never been this easy



MANAGEMENT AND MONITORING

TelevisGo is a family of devices used to monitor, control and manage commercial refrigeration installations from a distance.

USER MANUAL

invensys Controls

CONTENTS

1. USING THE MANUAL

To allow quick, easy reference, the manual has been designed with the following features:

Important!: **Information that the user must be aware of to prevent any damage to the system or hazards to people, devices, data, etc. Users MUST read and take note of these sections.**

Indication/highlighted text: further information on the topic in question that the user should be aware of.

Suggestion: a suggestion that could help the user to understand and make better use of the information provided.

2. INTRODUCTION

2.1 GENERAL DESCRIPTION

Televis**Go** is a range of monitoring, control and remote control devices for commercial refrigeration and air-conditioning installations.
It features a web-based remote user interface that can be configured from any PC with an internet connection.

Televis**Go** records data, manages alarms and provides remote access to network and controller data to easily monitor HACCP data and schedule maintenance activities.
It features the following connectivity systems:

- Ethernet interface (internal)
- GSM modem (external – see section entitled "**Compatibility**").
- USB ports

Televis**Go** also offers remote WEB-based access (see section entitled "**Compatibility**") without having to install any extra software.
The user interface supports 5 native languages (Italian, English, Spanish, German and French) although additional languages can be easily installed later.

Televis**Go** is a long-lasting, open platform that can be upgraded with new functions and data exchange capabilities with centralized systems.
It is the ideal solution for industrial refrigeration and air-conditioning applications. Up to 224 controllers and 3000 resources can be run on one license.

Access to Televis**Go** is easy, intuitive and shortens installation and learning times. The advanced user interface can be accessed via a PC web browser to analyze data and maintain full control over system operation.
As Administrator, all aspects of the system can be fully controlled via remote access (see "Disclaimer and PC Configuration).

2.2 FEATURES/MODELS

2.2.1 INTERFACE

Televis**Go** has an advanced user interface that can be accessed via web browser (*****) from any personal computer, in order to analyze data and control all functions of the plant.

(*****) A browser is a programme used to navigate web sites; it is normally included with the Operating System (Windows, Linux, Mac ...) or can be downloaded and installed free.

2.2.2 SPECIFICATIONS AND REGULATORY FRAMEWORK

The main technical features of Televis**Go** are listed below:

- Power supply: **DC12V** with external **100-240 V~ ±10%, 50-60 Hz** supply
- Max. power absorbed: **10 VA**
- Working temperature: 0 … 50°C
- Storage temperature: -20 … 60°C
- Operating/storage humidity: 10...90% (non condensing)
- Maximum number of connectable devices: **224**
- Operating System: XP Embedded (English language)

  (the license number card is inside the packaging)

- Connections: Ethernet (LAN), external GSM modem (see section entitled "**Compatibility**") and built-in USB ports.
- Web-based user interface to configure and control local applications from a distance.
- Remote software update (via internet).
- **Less energy intensive** thanks to the use of high-performance components which significantly boost power output and lower consumption.
- **Recyclable** - fully recyclable materials used (packaging, manuals, etc.)

2.2.3 REGULATIONS

The main regulations/directives which Televis**Go** complies with are listed below:

- UNI EN 12830:2001 (HACCP)
- 2002/95/EC (RoHS Directive)

2.2.3.1 Compatibility with EN12830 standard

Televis**Go** logs temperatures in accordance with the provisions of EN12830 in the following conditions:

- Network devices: Use only class II rated devices (Eliwell)
- Log temperatures using Televis network resources with Eliwell NTC probes

To guarantee compliance with standard EN12830, select data logging for analogue probes **ONLY**.
A year's worth of data logging is guaranteed for 1500 analogue resources, at intervals of 15 minutes.
The selection of non-analogue resources may affect archiving performance in terms of variations in the time asynchronous resources have within the network. In this case, refer to the GUI Web archive management section to check the storage capacity of your own plant and to set the parameters accordingly, to assure they meet the criteria specified by standard EN12830.

2.2.3.2 Application information sheet

a) **Type of data logging**:
Suitable to save to archive.

b) **General requirements**:
- **Measurement range**: Network devices: use only class II rated devices (Eliwell)
- **Supply voltage and frequency**: 12V DC with 100-240 V~ ±10%, 50-60 Hz ±3Hz power unit
- **Power failures**: Non-volatile internal memory, 10-year duration

c) **Requirements for metrological characteristics**:
- **Maximum permissible errors, temperature measurement resolution and error**:
For network devices: depends on the devices
- **Logging interval**: configurable (default 15 minutes).
- **Logging time**: 1 year's worth of data guaranteed for 1500 analogue resources, at logging intervals of 15 minutes
- **Maximum relative weather measurement error and weather recording error** <0.1%
- **Response time**: <30' with Eliwell controllers and Eliwell NTC probes
- **Climate and influence of ambient temperature**: 'type A' in air
- **Climate and temperature testing under logger storage and transportation conditions**: 'type A' in air
- **Electrical disturbances and radiated electromagnetic field susceptibility**: conforms to EN55022 and EN55024

2.2.4 LANGUAGES SUPPORTED

The software features the following native languages:
- Italian
- English
- Spanish
- German
- French

Additional languages are available and can be requested from Eliwell.
On approval of the request, these languages can be installed separately.

2.3 COMPATIBILITY

2.3.1 BROWSERS SUPPORTED

Televis**Go** is compatible with the following browsers:
- Internet Explorer 7 or later
- Mozilla Firefox 3.5 or later

To speed up navigation:
To make WEB navigation faster and more effective, we recommend:

1) Enabling the browser cache. This means pictures don't have to be reloaded at each connection, making navigation quicker and more responsive.

IMPORTANT!
Incorrect configuration of the cache could lead to pages not being refreshed properly!

The following settings are recommended:

• Microsoft Internet Explorer:
- Internet Options Window → General → Browsing History → Settings
- Check for newer versions of stored pages should be set to "Auto".

• Mozilla Firefox:
- Tools window → Advanced → Network
- Override automatic cache management must NOT be selected.

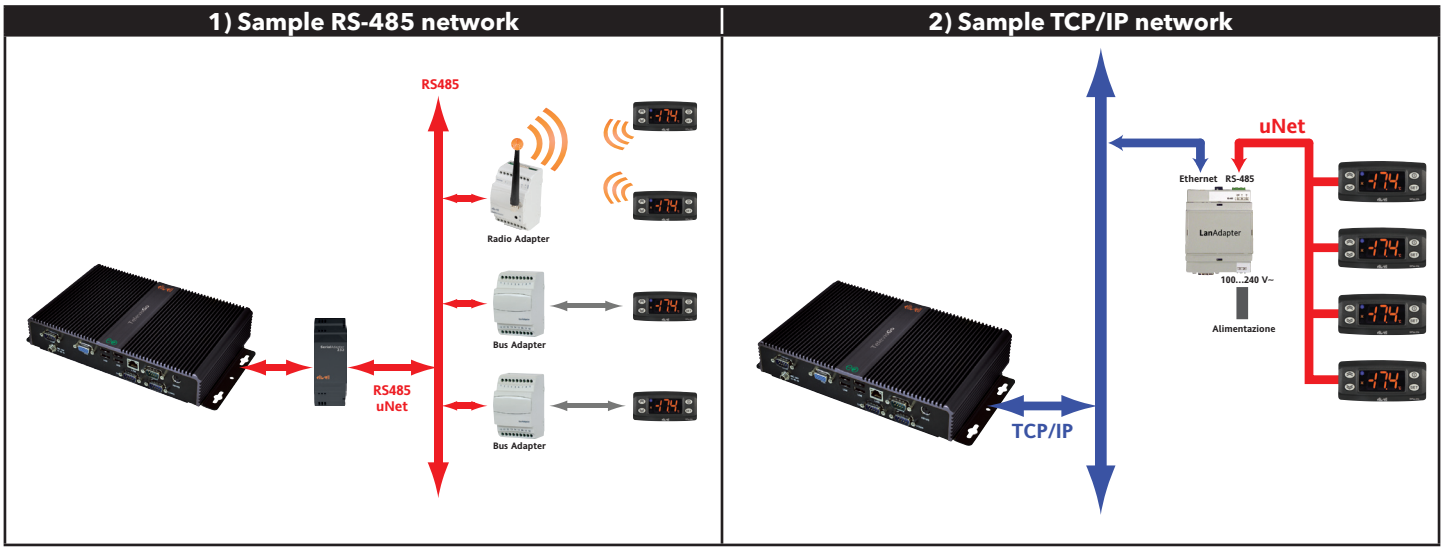
NOTE: Clear the cache every time the application has been updated.

2) Use a browser that shows even partially loaded data before the whole page loads, which makes navigation quicker and more responsive. For networks with over 700 resources, we recommend using browsers with more efficient JavaScript engines, such as Firefox 3.5 or IE8 or later. This speeds up the introduction of and interaction with pages containing the network hierarchy (e.g. Archived data selection / Naming / Network Summary / Offline).

2.3.2 TYPES OF NETWORK THAT CAN MONITORED

Televis**Go** has been approved for the following networks:
- "**RS-485"** networks and gateways using the SerialAdapter232 module (accessory can be purchased separately).
- "**LAN"** networks using the TCP/IP and gateways using the LAN Adapter module (accessory can be purchased separately).

The Eliwell guarantee extends to the correct use of only one type of network at a time. Some examples of usable networks are provided below:



SerialAdpater232 (picture on left) can only be connected to **COM1** or **COM2** as it is supplied by them. Other serial accessories (modems) must be connected to serials **COM3** or **COM 4**.

2.3.3 COMPATIBLE MODEMS

Televis**Go** is compatible with RS232-interface GSM modems powered by SIEMENS TC35-type technology.
The GSM modem connection can be done directly via RS232:

N.B.: To ensure it works correctly, the PIN of the modem SIM card must be disabled.

2.3.4 RANGES OF DEVICES SUPPORTED

All devices supported by Televis**Go** are listed in the file "**Controller_Driver_List.xls**" in the "**DriverList**" directory on the CD provided. The updated file can also be downloaded from www.eliwell.it.

2.4 DISCLAIMER AND PC CONFIGURATION

Users should be aware of the following:

- The default time zone is GMT+1.
- The default Administrator password is empty (not set); users must enter a password to assure safe and restricted system access.

  IMPORTANT!! USERS ARE RESPONSIBLE FOR SAVING AND REMEMBERING THE PASSWORD ENTERED; ELIWELL HAS NO WAY WHATSOEVER OF RECOVERING A PASSWORD.

- The PC has an FTP server with read and write permission in this folder: C:\Eliwell.
  Entry credentials to FTP server:
  - User name: Go
  - Password: GoZilla

  The port used is TCP /IP 21.

  NOTE: We recommend modifying the FTP server password.

- Remote access to the PC is possible:
  Remote access is achieved via the UltraVNC application working from the TCP/IP 5900 port.
  The default access account is:
  - User name: **TSUser**
  - Password: **TS**

  To modify the access mode, go to programme properties.
  TSUser belongs to the Administrators group in Windows.

Service	Default Account	TCP/IP ports	Connection application
FTP	User name: **Go** **Password: GoZilla**	21	Any FTP client
Remote access	User name: **TSUser** **Password: TS**	5900	UltraVNC

- Disconnect the USB mass storage device after maintenance is performed. Leaving a USB mass storage device connected prevents the PC from restarting properly.

IMPORTANT!!
The PC is dedicated exclusively to running the TelevisGo application.
The installation of any other type of application could impair system stability.
The only installation permitted is an anti-virus software.
Users can choose an anti-virus that best suits their protection policy.
Bear in mind however that an anti-virus in action can adversely affect system performance.
Make sure the anti-virus does not block the TCP/UDP ports used by Televis Compact.

2.5 ACCESSORIES AVAILABLE

The following accessories can be provided for the network connection:

- **GSM modem:** RS232 GSM modem based on SIEMENS type TC35 technology.
- **Serial Adapter232**: An interface to connect between the Televis**Go** RS232 port (**COM1 or COM2)** and the RS485 network.
- **LanAdapter:** **LanAdapter** is an Ethernet /RS-485 interface module that allows communication via LAN between a monitoring system and a device network.
  The LanAdapter supports controller networks with either Micronet/Televis or MODBUS protocol.
- **Wifi LanAdapter:** Like the LanAdapter but with a WiFi / RS-485 interface.
- **BusAdapter** Device with a TTL/RS-485 communication interface to connect Eliwell controllers to cabled supervision and monitoring networks.
- **RadioAdapter:** Same as a BusAdapter but with wireless interface for connecting TTl/RS-485 networks.
- **SmartAdapter:** The SmartAdapter is a ModBUS protocol converter for Televis networks. It allows Televis**Net** software to connect to ModBUS protocol devices via an RS-485 interface.

2.6 SOFTWARE TOOLS

OFFLINE CONFIGURATOR

Offline Configurator is a PC application software that configures controller networks **offline** by defining abstract structured rules. Users can create configurations to assign names, alarms and scheduled actions to be applied to the network.

The tool can be downloaded from the Eliwell website on completion of second-level registration.
Register at **www.eliwell.it** and request level 2 access to the confidential area.

3. MECHANICAL INSTALLATION

3.1 GENERAL WARNINGS

IMPORTANT!
Always make sure the device is switched OFF before touching connections.
All operations must be carried out by qualified personnel.

Do not mount devices in extremely damp and/or dirt-laden areas; they are designed for use in places with ordinary or normal levels of contamination.
Make sure the area near the cooling slots is ventilated.
The admissible ambient temperature range for correct operation is between –5°C and +40°C.

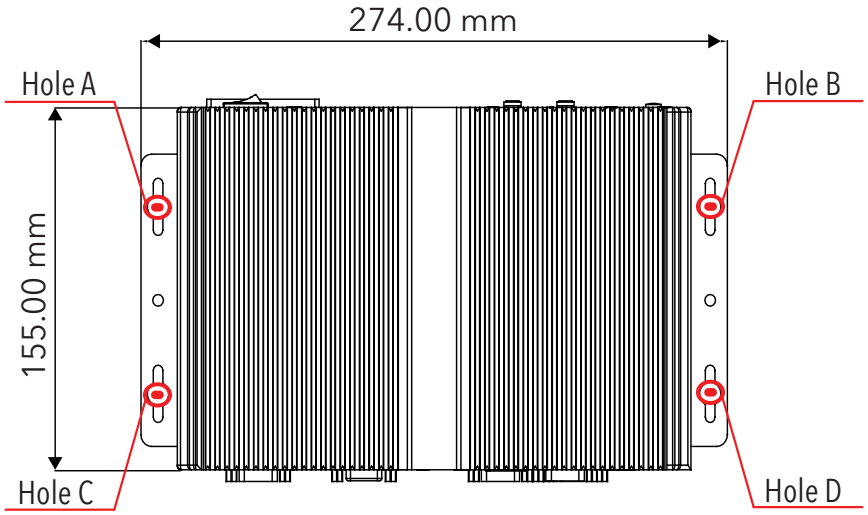
3.2 PACKAGE CONTENTS

The package contains:

- Televis**Go** device
- Power unit and power cable
- CD with manuals, list of compatible devices and examples of how to upgrade device

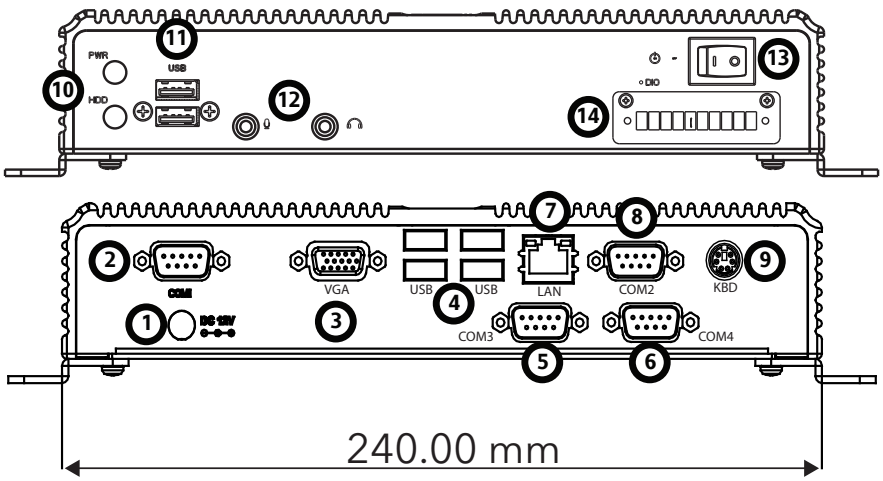
3.3 MECHANICAL INSTALLATION

Televis**Go** was designed for wall or panel-mounting.
Secure the device to the wall/panel with 4 screws (not supplied) to match the holes illustrated in the figure below.



3.4 CONNECTIONS ON THE DEVICE

The following connections are to be found on the front and back of the controller:



1) Connection to 12V DC power supply
2) COM1 (RS232) port
3) VGA monitor connection
4) 4 USB connections
5) COM3 (RS485) port
6) COM4 (RS485) port
7) LAN RJ45 connection
8) COM2 (RS232) port
9) PS2 keyboard connection
10) LED power supply and HDU
11) 2 USB connections
12) Audio minijack socket
13) PowerON/powerOFF button
14) Not used

Modules and system devices must be connected using a cable with 0.5 mm^2 conductors. There must be no more than 2km between Televis**Go** and the last module. Comply with relevant applicable legislation when laying data transmission cables.
Use a shielded cable (i.e. Belden cable model 8762 with PVC sleeve, 2 conductors plus braiding, 20 AWG, nominal capacity between conductors 89pF, nominal capacity of 161pF between conductor and shielding).
Remember to insert a 120Ω, ¼W resistor between the "+" and "-" terminals of the last device in the network.

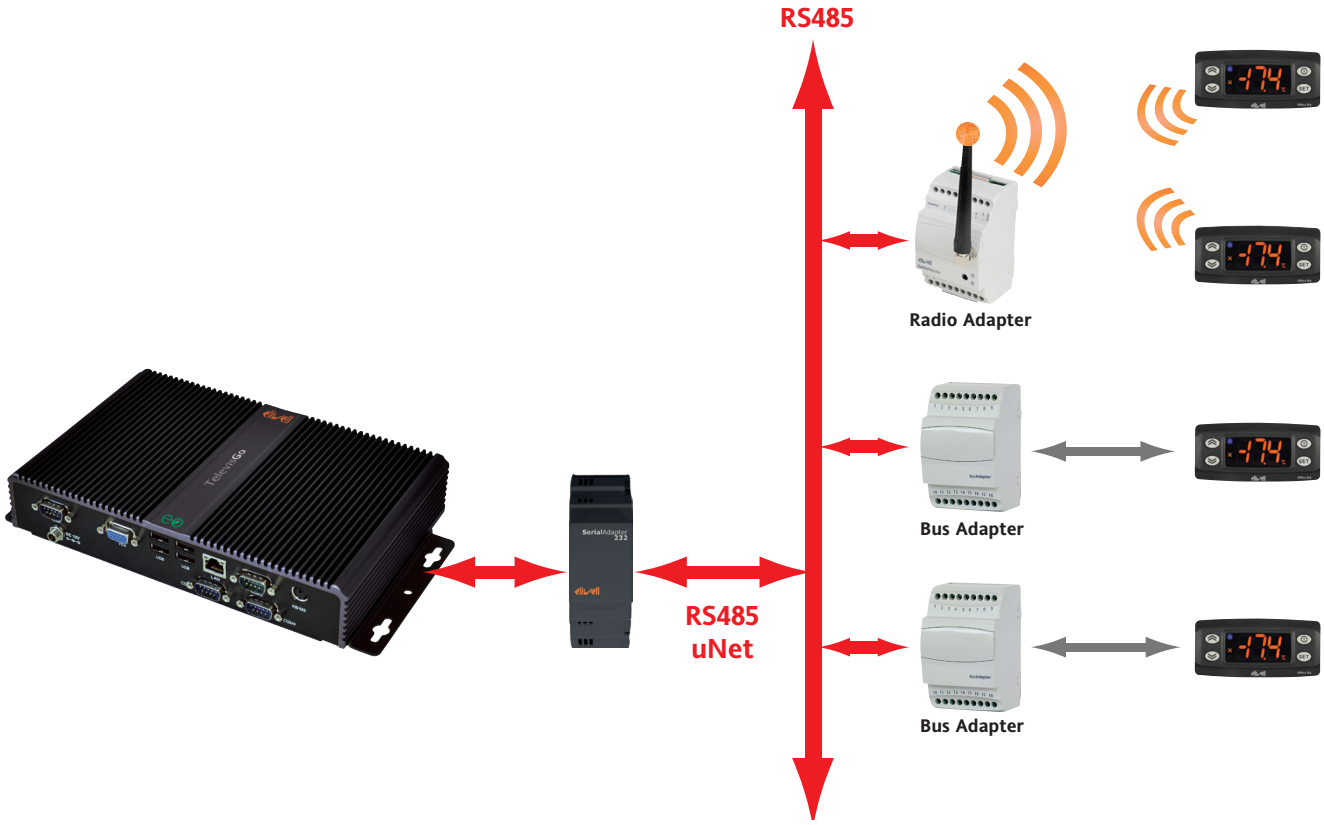
To switch the device off, press and hold button (13) for 4 seconds (to prevent any accidental switching off). In the event of a blackout, the PC and application restart automatically when mains power is returned.

3.4.1 CONFIGURING NETWORK DEVICES

Before scanning the network with Televis**Go**, each device in the network must be assigned a unique address by setting parameters "FAA" and "dEA".

3.4.2 RS-485 CONNECTION

An example of a RS-485 network is provided in the figure below.

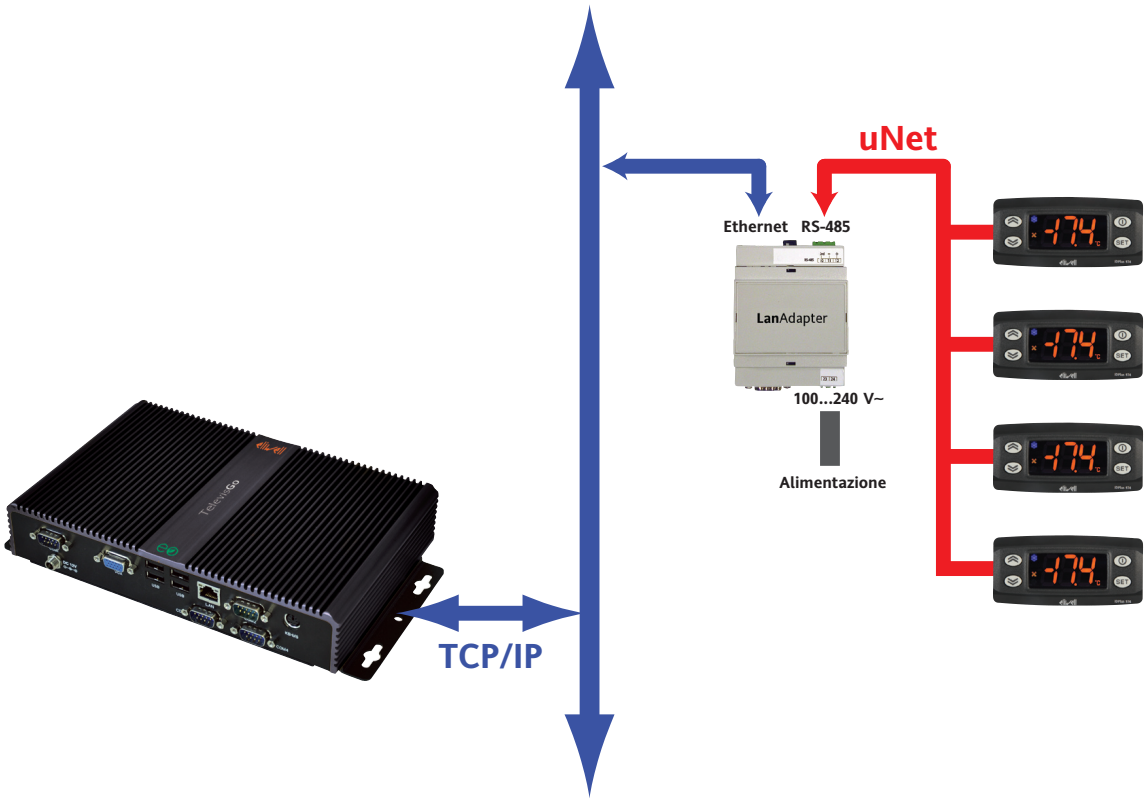


It features: 1 SerialAdapter232, 2 BusAdapters, 1 RadioAdapter and 4 ID controllers.

The SerialAdpater232 adapter can only be connected to **COM1** or **COM2** as it is supplied by them.
Other serial accessories (modems) must be connected to serials **COM3** or **COM4**.

3.4.3 LAN-ADAPTER CONNECTION

The figure below shows a LAN/Ethernet network.



It features: 1 LanAdapter and 4 ID controllers.

NOTE: Signal propagation in an Ethernet network depends on bus traffic, making access times to the LanAdapter non-deterministic and potentially influencing access time to the RS485 sub-network.

NOTE: If connection proves difficult, check if the right profile has been assigned to the network; if not, modify accordingly (see section entitled "**Interface definition**")

4. USER INTERFACE

TelevisGo has an advanced user interface that can be accessed via web browser (*) from any personal computer, in order to analyze data and control all functions of the plant.

(*) A browser is a programme used to navigate web sites; it is normally included with the Operating System (Windows, Linux, Mac ...); alternatively, it can be downloaded and installed as freeware.

TelevisGo must be switched on and connected to the internet to access the web interface.

Open a compatible browser and enter the device address:

http:// <**TelevisGo IP Address**>

The factory-set parameters are as follows: <**TelevisGo IP Address**> = 192.168.50.50 Subnet mask:= 255.255.0.0

To assure the proper function of the PC - **TelevisGo** connection (Ethernet), the PC must have an IP address configured that is compatible with the TelevisGo subnet mask (normally the same Subnet mask and IP address, in which only the fourth numerical block changes to be different for each element in the network).

For more detailed information and special installations, contact the network administrator).

4.1 LOGIN

You must log in before you can access any TelevisGo functions.
The web login page is used to select the user interface language; the application is set by default to the browser language.
If you are using Internet Explorer for example, you can check the current language by going to:

Tools > Internet Options > Languages. (button in Internet Explorer 9)

At the top of the login area there are several TelevisGo status icons:

- Plant name.
- TelevisGo status.
- Data logging status (started, stopped).
- Alarm status (active, acknowledged, sleeping).

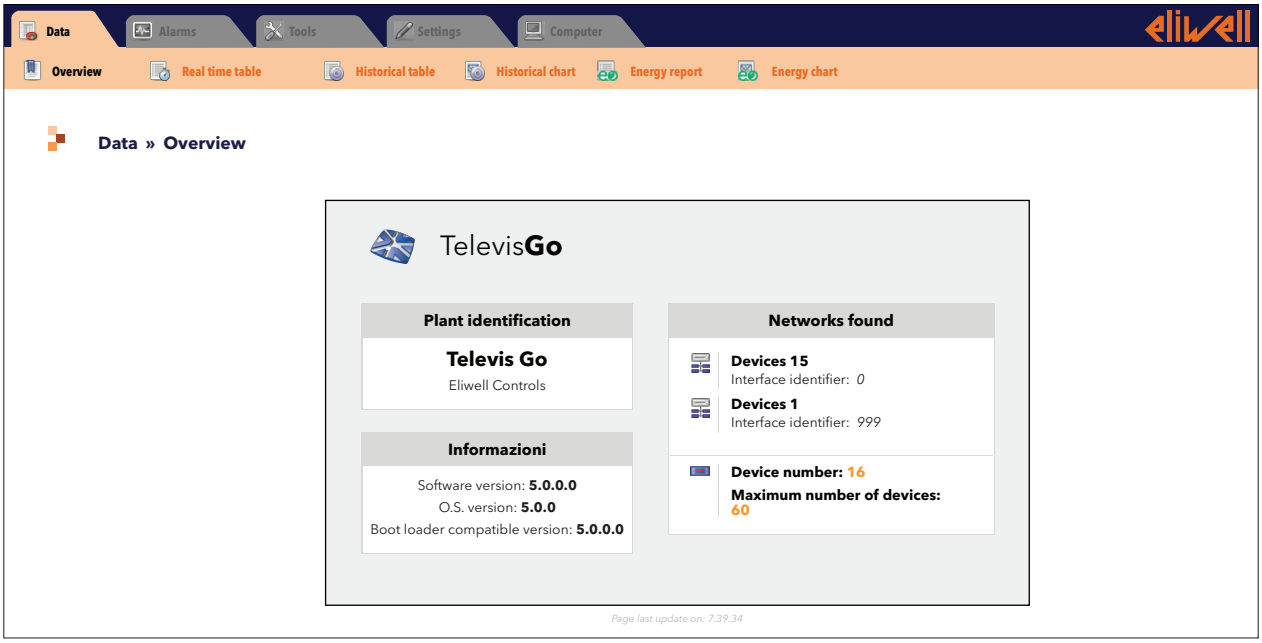
For further details on icons, see status icons table.

The default is a predefined user profile (account) with the following credentials:

- User: **Administrator**
- Password: **0** (zero)

Select the check box "**Save this information**" and the system will remember the user name and language selected the next time you log in.

4.2 WELCOME PAGE



The welcome page (see picture above) displays information on the current status of the installation:

- **Plant name**.
- **Program version**: the program version installed on Televis**Go**.
- **Networks found**: number of devices found for each interface.

4.3 PAGE STRUCTURE

All pages in the web application have the same structure, i.e.:

- Navigation menu at the top.
- Work area in center.
- Status bar at the bottom.

4.4 NAVIGATION MENU

The navigation menu is shown at the top of the page and contains the hypertext links to the different sections of the application:

- Data
- Alarms
- Functions (Tools)
- Settings
- Computer

Data	Alarms	Functions	Settings	Computer

Each menu has a number of associated commands listed under the menu bar (sub-menu) (e.g. "general view", "real time table", "historic table"...).
Clicking a menu changes the sub-menu but not the current page.
Clicking a sub-menu heading changes the current page.

4.5 STATUS BAR

The status bar is always shown at the bottom of the window, providing important information of system status. The Status Bar contains the following icons and text:

- **Plant name**
- **Data logging**: Indicates Televis**Go** logging status (running /not running).
- **Alarm Status**: The icon takes the form of the current alarm status, as described in the icons legend.
- **User** (Group): indicates the name of the current user. The group of origin is contained in the brackets. Access rights depend on the group of origin; all users from the same group are given the same access rights.

There are another two icons on the right side of the status bar:

- **Welcome page**: provides quick access to the welcome page.
- **Exit**: ends the current session and returns you to the login page.

Plant name	Data logging	Alarm status	User (Group)	Welcome page	Exit

4.6 ACTION/COMMAND ICONS

Add element	Remove selected element	Modify selected element	Save changes	Cancel changes

4.7 STATUS ICONS

The user interface has a series of indicator icons giving instant feedback on the status of the resource the icon represents. The icons appearing in the different pages of the application are listed below, with an explanatory description:

	Icon	Description
Logging status		Televis**Go** data logging running.
		Televis**Go** data logging not running.
		No controller network configured.
Alarm status		Indicates that the alarm is active.
		Indicates that the alarm is active and has been noted by the user.
		Indicates that the alarm in question has already ended.
		Indicates that the alarm has never been active.
		No alarm status information available. (check status of plant connection and data logging).
Resource status	/	**Compressor**: On / Off.
	/	**Defrost**: On / Off.
	/	**Port**: Open / Closed.
	/	**Fans**: On / Off.
Inputs and regulators		**Analogue input**.
		Digital input.
		Associated device.
		Alarm-type resource.
NO LINK		**Nolink**: indicates that the device in question cannot be reached.
Access to the application		**Home**: return to start page (plant data - welcome page or page specified by the user).
		Exit: disconnects the user from the application and goes back to the login page display.
Saving configuration		**Save naming**: used to save the network naming and alarm delay settings directly on the Televis**Go** device.
		Apply naming: used to apply previously saved naming and alarm delay settings to the current network.

5. INSTALLATION / MAINTENANCE

To install Televis**Go**, you have to set up the device and the network of devices it is connected to first.
This can be done via the WEB interface.

NOTE1: Before scanning the network with Televis**Go**, each device in the network must be assigned a unique address by setting parameters "FAA" and "dEA" (family:device).

NOTE2: On plugging in, Televis**Go** does not switch on immediately as some checks are run automatically and the software is loaded (takes about 30 seconds).

5.1 DEVICE SETTINGS

5.1.1 SETTING DATE&TIME

To set the plant name and date & time in the device, go to:

Computer → **Information** → **General**

To access this section, data logging must be suspended (see Data Logging section).

In the window that opens, click the icon or **Edit**.
Now you can enter the date and time then click the icon or **Save**.
The date and time can be imported directly from your computer by clicking the "**Use client date/time**" button.
Click the icon or **Cancel** to exit without saving the changes.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

IMPORTANT: Changing the date/time may cause your Web session to expire. In this case, you may need to re-connect.

5.1.2 ENTERING THE PLANT NAME

To set the plant name in the device, go to:

Computer → **Information** → **General**

In the window that opens, click the icon or **Edit**.

You can now enter the Plant name then click the icon or **Save**.
Click the icon or **Cancel** to exit without saving the changes.

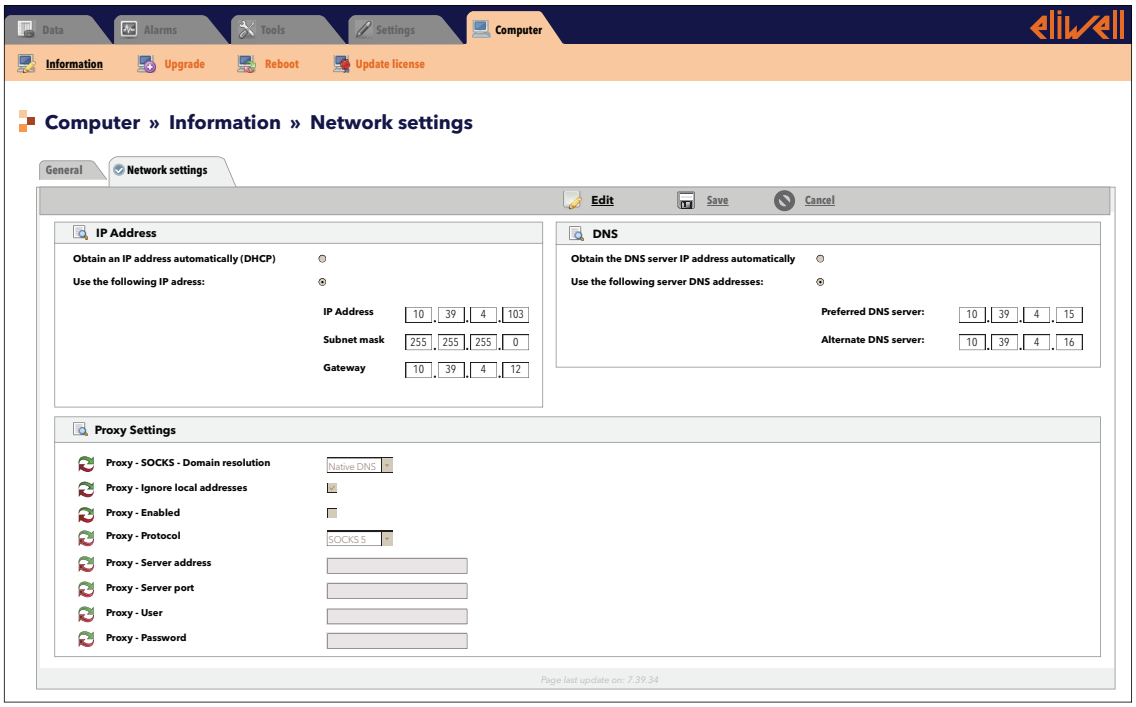
If you change page without saving, any changes made will be lost (the same as clicking Cancel).

5.1.3 SETTING NETWORK IP/DNS

To set the network IP/DNS, go to:

Computer → **Information** → **Network Settings**

In the window that opens, click the icon or **Edit**.



Depending on the network (contact the network administrator for necessary information), enter the following information:

1) **IP address**: set if the DHCP (dynamic address) or manual IP (static address) is to be used.
   - If the **automatic IP** has been set, when the device is restarted, it will connect using the values received from the network, which may vary each time.
   - If the **manual IP** has been set, when the device is switched on, it connects using the same values all the time, which must be saved in the following order: IP address, Subnet mask and Gateway.

2) **DNS address**: set if the automatic DNS (dynamic address) or manual DNS is to be used.

3) **Proxy Configuration**: set proxy server parameters (the system must be restarted after setting these parameters):
   - **SOCKS - Domain name resolution** : native DNS, Proxy or DNS via proxy
   - **Ignore for local addresses**: when selected, Televis**Go** will not use the proxy server to resolve addresses within its own sub-network.
   - **Enable**: select if the SOCKS server requires authentication.
   - **Protocol version**: 4, 4a, 5 or HTTP Proxy
   - **Server address**: IP address of SOCKS server
   - **Server port**: SOCKS server access port
   - **User**: user name for SOCKS server authentication
   - **Password**: password for SOCKS server authentication.

To save data entered, click the icon or **Save**.
Click the icon or **Cancel** to exit without saving the changes.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

5.2 NETWORK SCAN AND DEVICE NAMING

5.2.1 DEFINING INTERFACES

To define system interfaces, go to:

Settings → Interfaces → Scan

To access this section, data logging must be suspended (see Data Logging section).

In the new page that opens, click the icon or **Manage interfaces**.
A window will open in which you can enter/edit interfaces.
To add a network, click the icon or **Add**, and a screen with the following options will open:

- **Interface type**: type of network interface:
  a) **Serial Adapter**
  b) **LanAdapter** (TCP/IP)

Serial Adapter (Fig.1) example:

- **Port**: physical communication port used by Televis**Go** (COM)
- **Protocol**: type of communication protocol.
  a) **Micronet**
  b) **Mixed & Smart** (Micronet with Modbus sub-network after a SmartAdapter)
  c) **Mixed native** (Micronet and Modbus together)

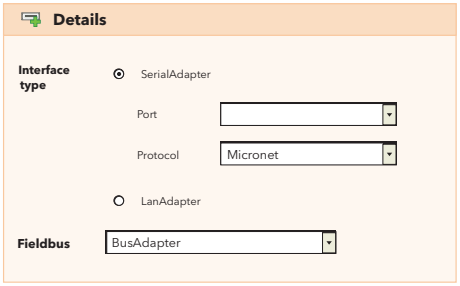


Fig.1

Lan Adapter example (Fig.2):

- **Address**: set the device IP address.
- **Port**: virtual TCP/IP navigation import.
- **Protocol**: type of communication protocol.
  a) **Micronet**
  b) **Mixed & Smart** (Micronet with Modbus sub-network after a SmartAdapter)
  c) **Mixed native** (Micronet and Modbus together)
- **Fieldbus**: types of network available:
  a) **BusAdapter**: RS485 serial network
  b) **LanAdapter**: LAN type network
  c) **LanAdapter Wifi**: LAN network + Wifi
  d) **LanAdapter Radio**: LAN network + RadioAdapter
  e) **RadioAdapter**: RS485 network + RadioAdapter
  f) **SmartAdapter**: RS485 network + SmartAdapter

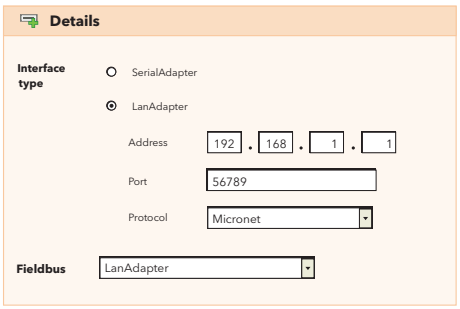


Fig.2

On selection of the icon or **Edit**, after selecting the network to be modified, the same screen as "Add" opens where you can change all previously entered values.
Click the icon or **Save** to save all data entered or changes made. When using a LANAdapter network, we recommend you always use the "Test connection" key to check communication between Televis**Go** and the device itself.
Click the icon or **Cancel** to exit without saving the changes.
To remove a network, select it then click the icon or **Remove**.
Click the icon to go back a menu.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

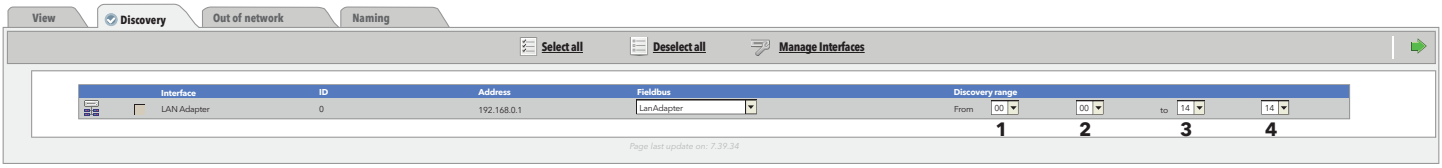
5.2.2 CONFIGURING THE DEVICE NETWORK

To set up a network of devices, go to:

Settings → **Interfaces** → **Scan**

To access this section, data logging must be suspended (see Data Logging section).

Now click the icon. This page opens:

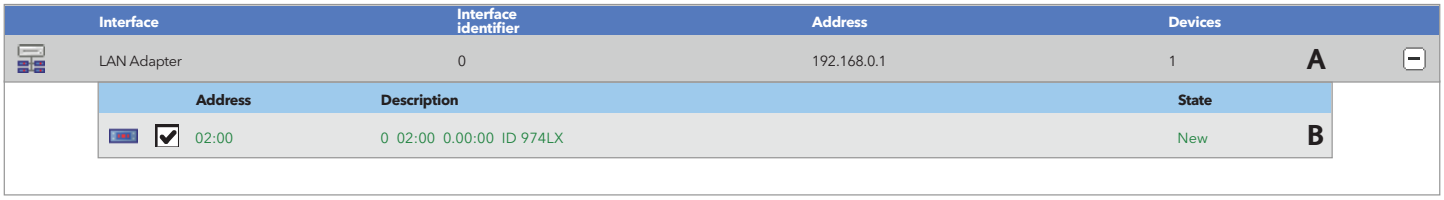


A list of all available and previously defined interfaces is displayed (see the Defining Interfaces section) along with associated settings (name, ID, address....).

Set the scan range using pop up menus 1, 2, 3 and 4.
The default ranges are: 00:00/14:14 for Micronet networks and 00:00/15:15 for Mixed networks.
To start scanning or to find network devices, click the icon**.**

NOTE:
Scanning the full range can take a few minutes.
Likewise, it could take even longer if there are any unused addresses (the system makes more than one attempt when it doesn't receive a reply) or if a Mixed network is being used.

On completion, the following window opens:



Line **A** identifies the network scanned. Line **B** and subsequent lines list devices associated to the network.
The colour of each line has a specific meaning:

- GREEN: new device located in the network
- BLACK: existing network device
- GREY: device not located, part of previous network but possibly no longer present.
- RED: device for which Televis**Go** has no internal driver.

On completion, click **Save** to save all data logged.
Click the icon to go back a menu.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

IMPORTANT: in the following circumstances, a second scan must be performed:

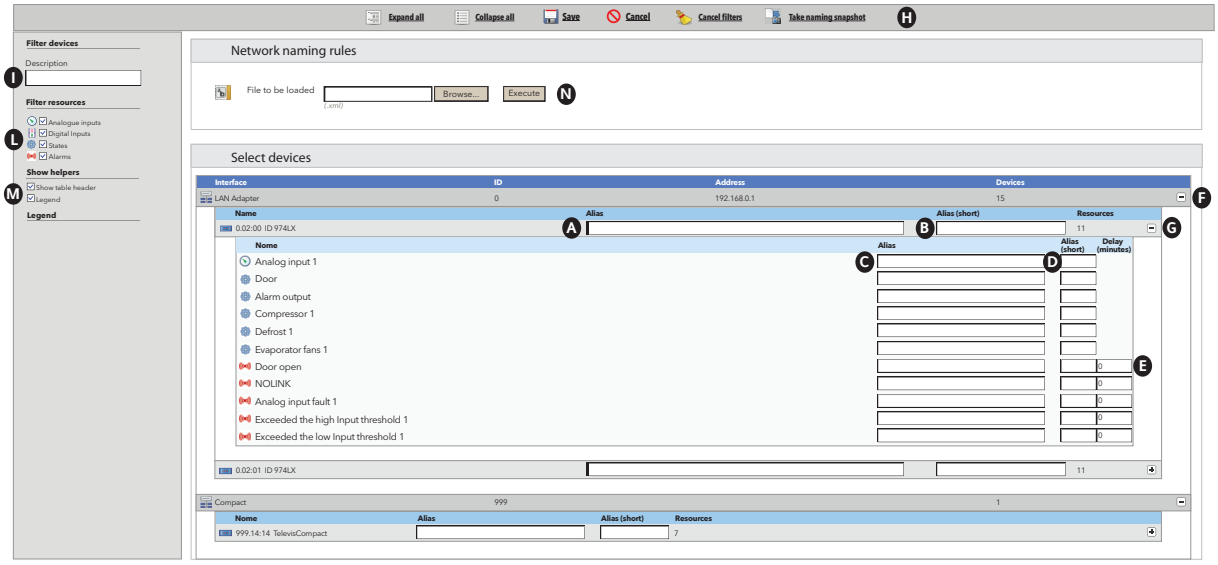
- If one or more devices have been added
- If the drivers of one or more Televis**Go** controllers have been updated.
- If you have enabled/disabled one or more controller resources by changing some parameters.
- A **device changed** alarm is displayed.

5.2.3 NAMING NETWORK DEVICES MANUALLY OR FROM FILE

To name a network device **manually**, go to:

Settings → **Interfaces** → **Naming**

The following page opens:



Devices viewed can be filtered by **Description** (or part description) (**I**) or by type via **Device Filters** (**L**).
Clicking the **Cancel Filters (H)** button will reset all filters defined (all device filters enabled).
The table heading and key (**M**) can be viewed/hidden.
Press button **F** to expand the list of devices present in the network.
In boxes **A** and **B** the device can be associated to an "**Extended Name**" (**A - Alias**) and a "**Short Name**" (**B - Short Alias**). Both can be up to 25 characters long. You will need the "**Short Name**" to manage TXT messages.
Valid characters:

- Upper case (A, B, C, …)
- Lower case (a, b, c, …)
- Numbers (1, 2, 3, …)
- Some special characters (: , - , _ , <space>)

Press button **G** to expand the list of resources belonging to the device.
In boxes **C** and **D**, an "**Alias**" (**C**) and a "**Alias (short)**" (**D**) can be associated, using the same rules applied to the device Description and Alias.
If the resource is an **alarm**, box **E** opens. The "Delay time" (**Tr**) before which an alarm will be signaled can be entered in this box (the alarm doesn't generate an alarm message/alert if it is shorter than the **Tr** time set (in minutes). This alarm will not be shown in the alarm screen).
Click the icon or **Save (H)** to save all data entered or changes made.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

N.B.: The devices also include the Televis**Go** with all its resources.

There are two icons on the status bar, the function of which is:

- **Capture naming snapshot (H)**: to save naming settings and network alarm delays in Televis**Go**.
  Clicking this button opens the file automatically (in .xml format) with the saved settings, allowing users to save a backup file.

IMPORTANT: using the icon to save settings overwrites any previously saved information.

The browser may issue a warning message asking you to confirm if you want to download the file; this depends on your browser security settings.

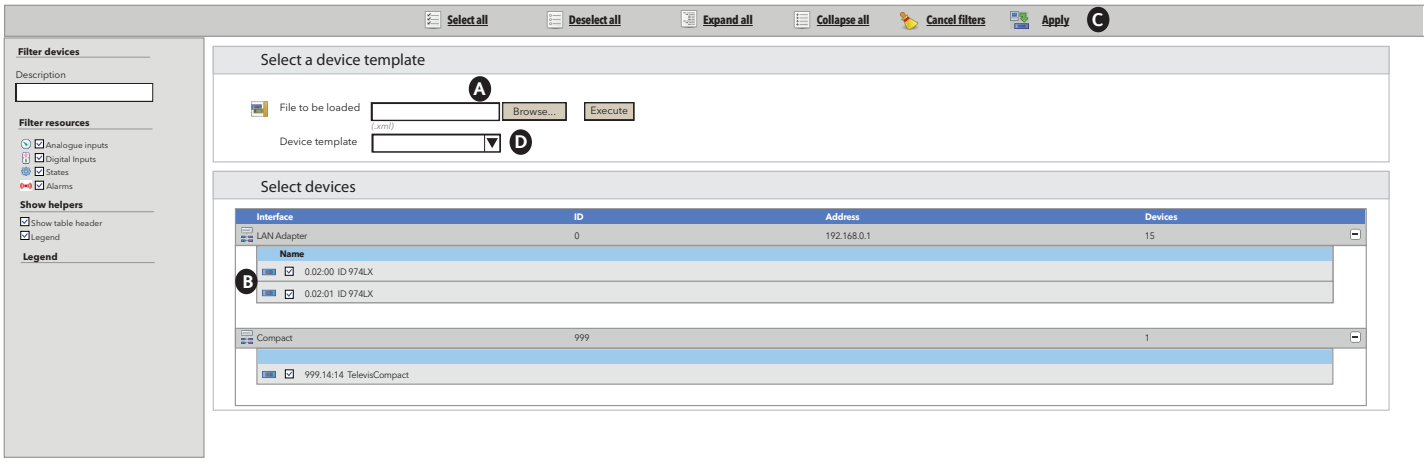
Network devices can be named by applying the settings listed in an xml file generated by the OfflineConfigurator application (see the associated manual) or saved via the Capture naming snapshot function **(H)**:

- The file and settings to be applied can be selected in the **File to load (N)** box.
- Clicking **Run** applies settings to all network devices matching the rules contained in the xml file.

5.2.4 NAMING NETWORK DEVICES FROM FILE

Network devices can be named by applying the settings in a specific xml file generated by the Offline Configurator application (see the associated manual).
Go to:

Settings → **Interfaces** → **Device Template**



The page is very similar to the one in *Naming Network Devices Manually or From File, as regards both the device and associated functions* (for the meaning of many controls).
The file and settings to be applied can be selected in the **File to load (A)** box.
Clicking **Run** will load the template and make it available in the drop-down menu **(D).**
Clicking the **Apply (C)** button will apply the current template settings **(D)** to all network devices selected via the check box to the left of the name (**B**).

The following buttons are presented at the top:

- **Select All**: to select all devices in the list.
- **Deselect All**: to deselect all devices in the list.
- **Expand All**: to view all devices in the interface.
- **Collapse All**: to hide all devices in the interface.
- **Cancel Filters**: to cancel all filters applied.

5.2.5 SETTING THE DATA LOGGING INTERVAL

A data logging interval must be set. The time set (in minutes) is the interval (sample) in which data from the selected resource will be logged.
Data on **Statuses**, **Alarms** and **Digital Inputs** is not logged in this interval. In these cases, data is recorded when these parameters change and not over a set interval. To set the interval, go to:

Settings → **Data Archive** → **Control**

To access this section, data logging must be suspended (see *Data Logging* section).

On opening this menu, click "**Saved data-logging interval in archive**", then click the icon or **Edit**, enter the number (hours:minutes:seconds) and click the icon or **Save**.

For expert USERS: in

Settings → **Data Archive** → **Manage**

the "**Maximum Capacity**" (**CM**) (maximum memory used to save data) is set at **7GB**; users can also set the "**part of data archive to be used for circularity**" (**%CA**) (percentage of memory freed when oldest data is deleted each time the memory reaches full capacity).
The factory-set value is: **%CA** = 12%.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

The device will now show the summary in:

Settings → **Data archive** → **Summary**

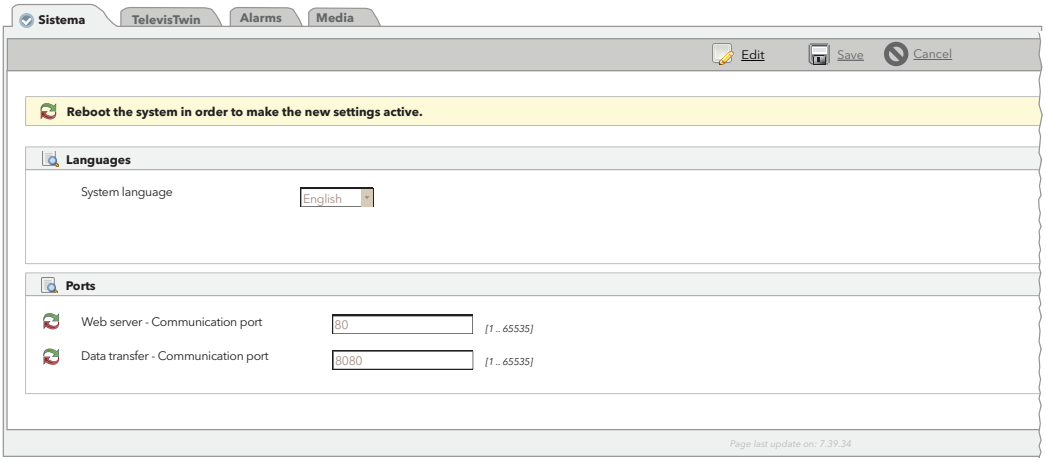
5.2.6 GENERAL SYSTEM SETTINGS

This menu can be used to set the display language, the communication ports, and alarm alert transmission times. To activate the menu, go to:

Settings → **General Settings** → **System**

To access these sections, data logging must be suspended (see Data Logging section).

The following page opens:



In "**System**" you can set the following

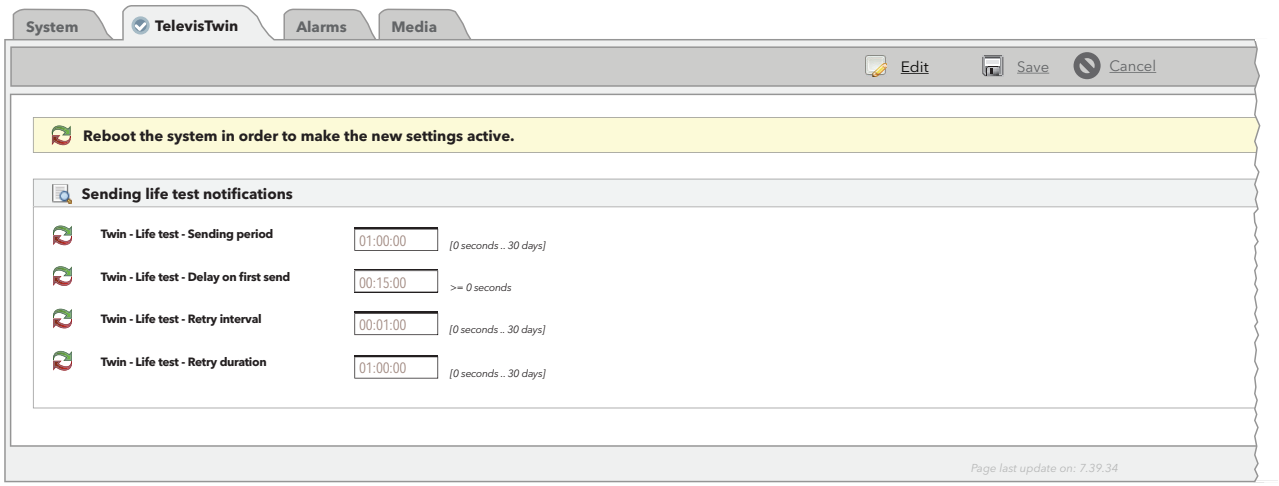
1) **LANGUAGES**:

- **System language**: to set the language used for creating the alarm messages and communication with systems external to Televis**Go** (TWIN or third party systems).

2) **PORTS**:

- **Web server - Communication Port**: to identify the port to be used for the WEB connection (e.g. 80)
- **Data transmission - Communication port**: to identify the port to be used to download data (e.g. 8080)

The following page is displayed when **TelevisTwin** is clicked:



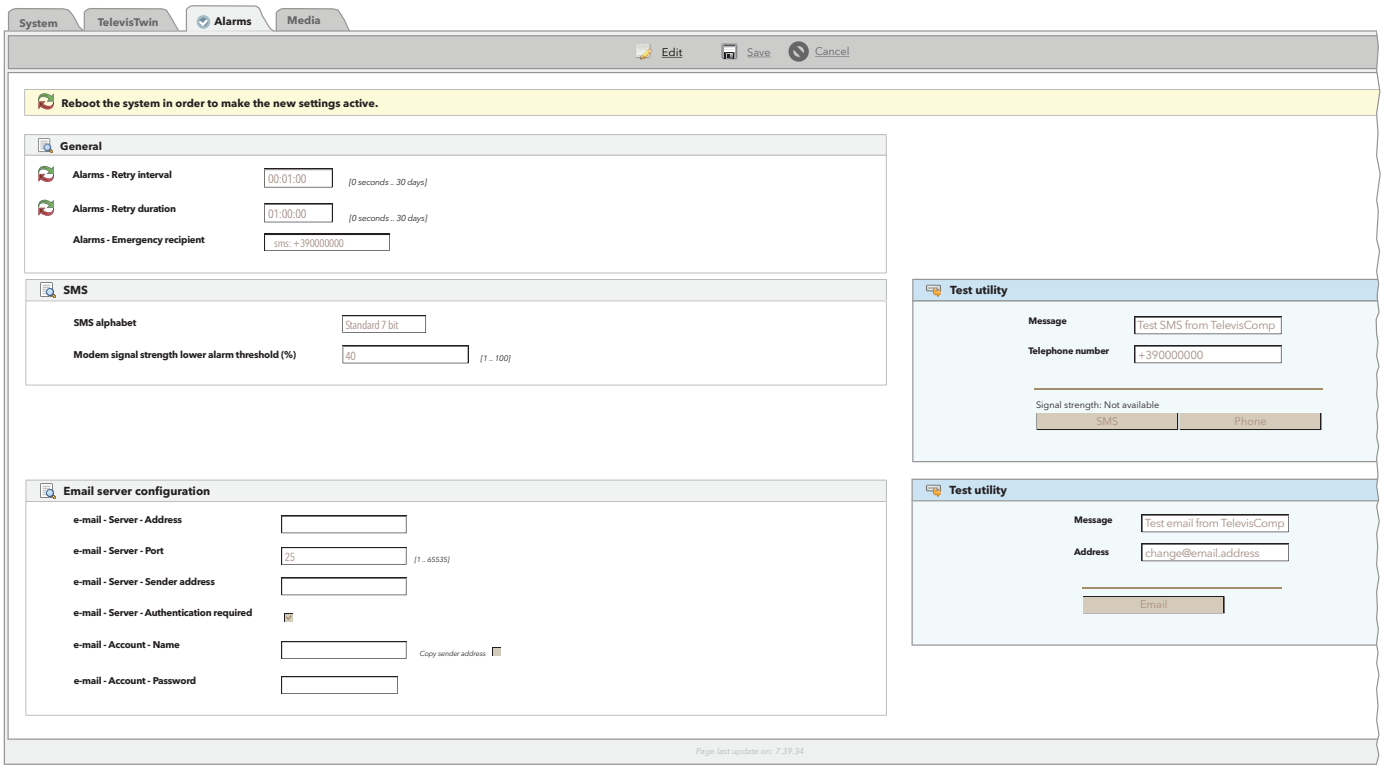
In "**TelevisTwin**" you can set the following:

1) **LIFE TEST REPORT SENDING**:

- **Twin - Life test - Sending period:** to set how often a life report is sent.
- **Twin - Life test - First sending delay:** to set how long to wait after switching on before sending a life report.
- **Twin - Life test - Retry interval:** to set the interval between 2 consecutive life report sending attempts
- **Twin - Life test - Retry duration:** to set the maximum interval in which to attempt life report sending.

The life test will be sent to TelevisTwin if at least one "TelevisTwin" action is configured within the system (see chapter entitled "**Alarm management**").

The following page is displayed when **Alarms** is clicked:



In "**Alarms**" you can set the following

1) **GENERAL**:

- **Alarms - Retry interval**: to set the interval between 2 consecutive attempts to send an alarm. (see section entitled "**Alarm management**")
- **Alarms - Retry duration:** to set the maximum interval in which to attempt to send an alarm. (see section entitled "**Alarm management**")
- **Alarms - Emergency recipient**: to set the telephone number to which an emergency TXT will be sent should the Televis**Go** database becomes corrupted and the recipients set by the user are no longer available.

2) **TXT**:

- **TXT alphabet**: to set the kind of alphabet you want to use when sending TXT messages. **Standard 7 bit (default)** or UCS2 or **Cyrillic 7 bit**. by default it is set to "7 bit"
- **Lower model signal threshold alarm (%)**: to set the minimum modem signal threshold (as a percentage) which must be reached before a "Modem signal insufficient" alarm is activated.

3) **Email server address configuration**:

- **Email - Server - Address**: to set the email server address.
- **Email - Server - Port**: to set the email server connection port.
- **Email - Server - Sender's address:** to set the sender's email address.
- **Email - Server - Authentication request:** to tell the system whether an authentication request is required (tick the box if the Server requires authentication).
- **Email - Account - Nome**: to set the user name (if authentication is required).
- **Email - Account - Password:** to set the user password (if authentication is required).

The "**Media**" card is described in the "**Alarm Management**" section.
Test Utility sections are shown on the right: here users can check instantly if the settings applied are correct and working properly.

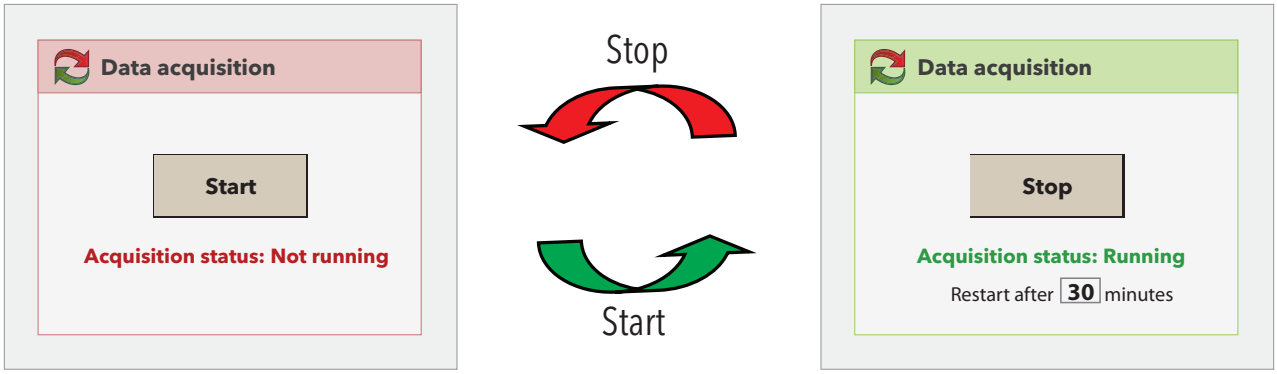
5.2.7 START LOGGING

To **start** data logging, go to:

Functions → **Start/Stop**

On entering the menu, one of the windows shown below will open:

- If data logging is suspended, the window on the left opens: click **Start** to start logging.
- If data logging is started, the window on the left opens: click **Stop** to stop logging.



In the **Restart After** box you can set a number in minutes after which data logging restarts automatically after it has been stopped.

Automatically restarting data logging is useful as it will prevent users from accidentally leaving data logging turned off after stopping it for maintenance of parts of the system.

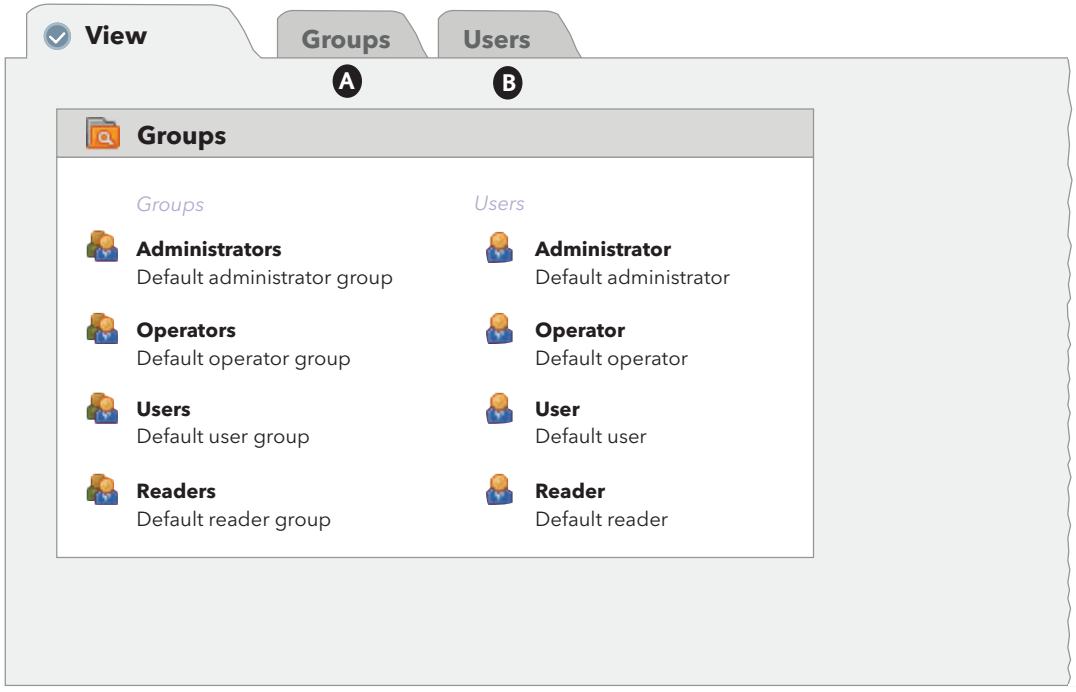
Data regarding devices and past alarms can only be viewed with data logging turned on.

5.3 MANAGING USER PROFILES / MULTIPLE USERS AND DEFAULT PAGE

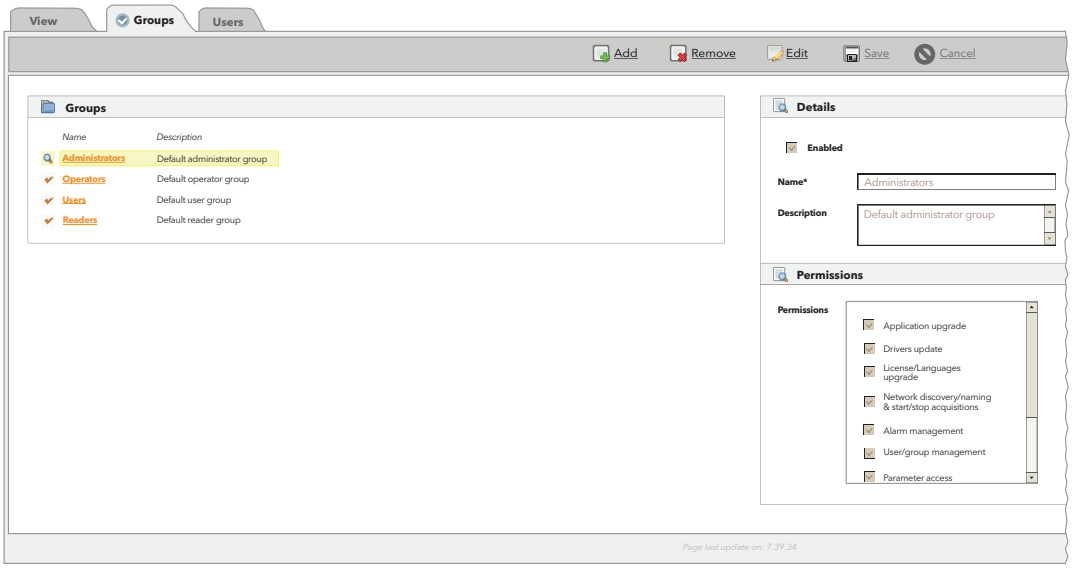
To edit a user profile or user group access, go to:

Settings → **Users** → **Summary**

The following window appears:



To create/edit a **Group of Users** and relative rights, click the **Groups** (A) icon. The following window appears:

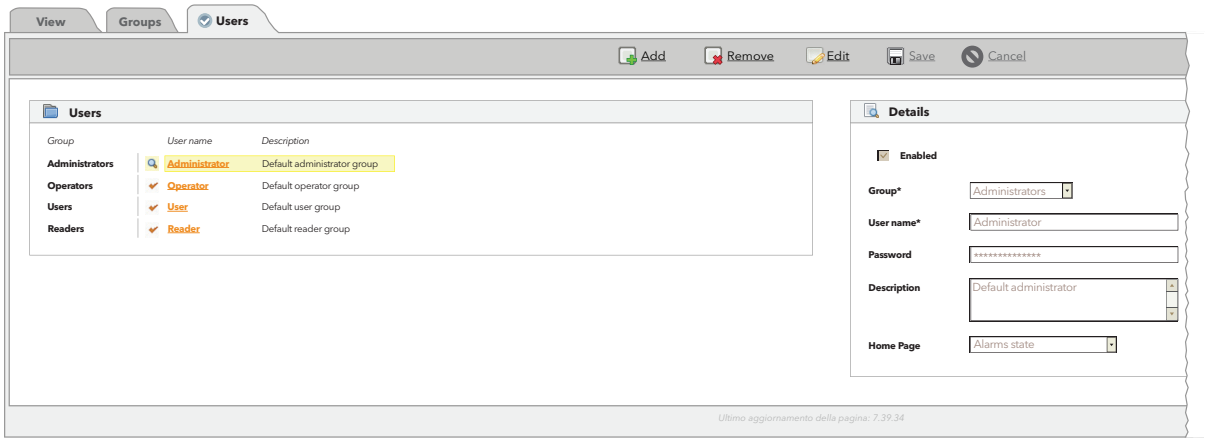


The following operations can be performed:

- A user group can be created by clicking the icon or **Add**.
- Click the icon or **Remove** to delete a User Group.
- Click the icon or **Edit** to edit a User Group.
- Click the icon or **Save** to save the User Group(s) created / edited.
- Click the icon or **Cancel** if you don't want to save the changes made to Groups.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

To create/edit a **User** and relative profile, click the **Users** (B) icon. The following window appears:



The following operations can be performed:

- Click the icon or **Add** to create a New User.
- Click the icon or **Remove** to delete a User.
- Click the icon or **Edit** to edit a User Profile.
- Click the icon or **Save** to save the User Profile created/edited.
- Click the icon or **Cancel** if you don't want to save the changes made to User Profiles.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

NOTE:

1) The rights of "**Administrators**" cannot be modified.
2) To edit the rights of a Group or User Profile, you must be logged in as Administrator or have the necessary authorization credentials to configure users/groups.

5.4 SCHEDULED ACTIVITIES

Televis**Go** can run actions automatically that have been scheduled by users.

There are two types of scheduled activities (or actions):

- Send command to one or more devices.
- Write parameters to one or more devices.

Scheduled activities can have one of three types of frequency:

- Periodical: the action is carried out periodically, with the frequency defined by the user.
- Daily: the action is carried out every n days at one or more times during the day.
- Weekly: the action is carried out every n weeks, on specific days and at one or more times during the day.

Each scheduled event begins at a time set by the user and continues indefinitely with the defined frequency.

The action is therefore performed in accordance with the set schedule. If the action fails, Televis**Go** continues to attempt to execute it at user-defined intervals up to a maximum time, again set by the user. If the maximum duration is set to 0 or if it is less than the re-attempt interval, no further attempts will be made.

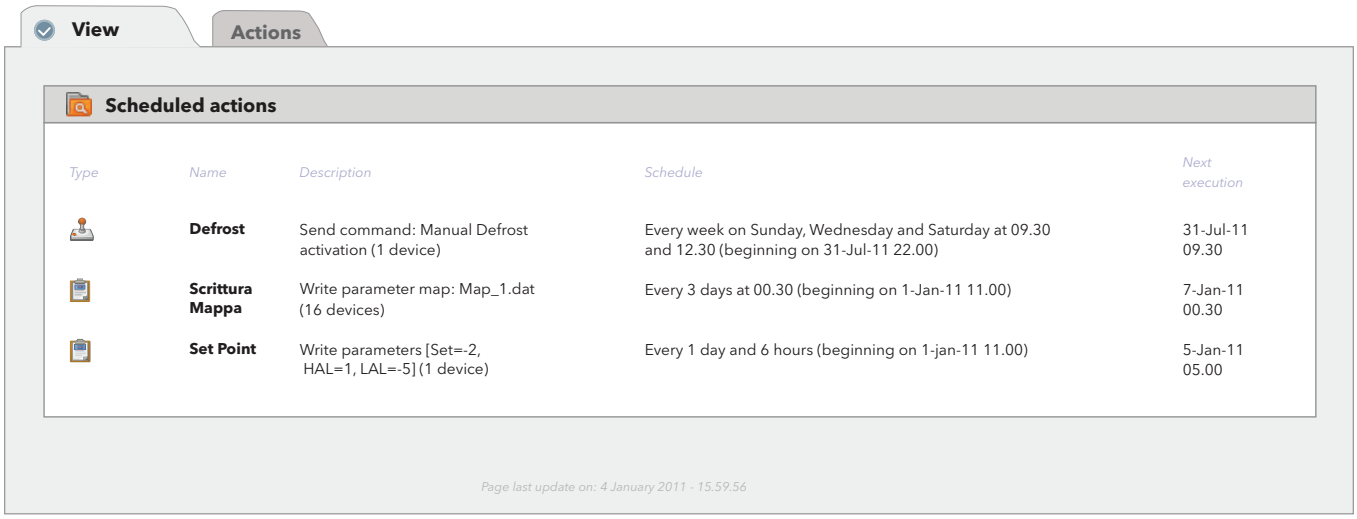
Scheduled activities can be applied to a selection of devices in the current configuration. The selection is done by applying a user-defined filter to the current network configuration. The result of this filter is the list of devices that the action is to be applied to.

5.4.1 VIEWING SCHEDULED ACTIVITIES

To view the current list of scheduled activities, go to:

Settings → **Scheduled activities** → **Summary**

A window similar to this one will open:



In the example, Televis**Go** shows three scheduled actions plus a description of each. The columns in the table contain the following information:

- **Type** represents the type of action; send command ( ) or write parameters ( ).
- **Name** is a user-defined label.
- **Description** describes the activity that will be performed; the number of devices it will be applied to is given in brackets.
- **Scheduled** describes when/how often the activity will happen.
- **Next executed on** states the next day/time the activity will be performed.

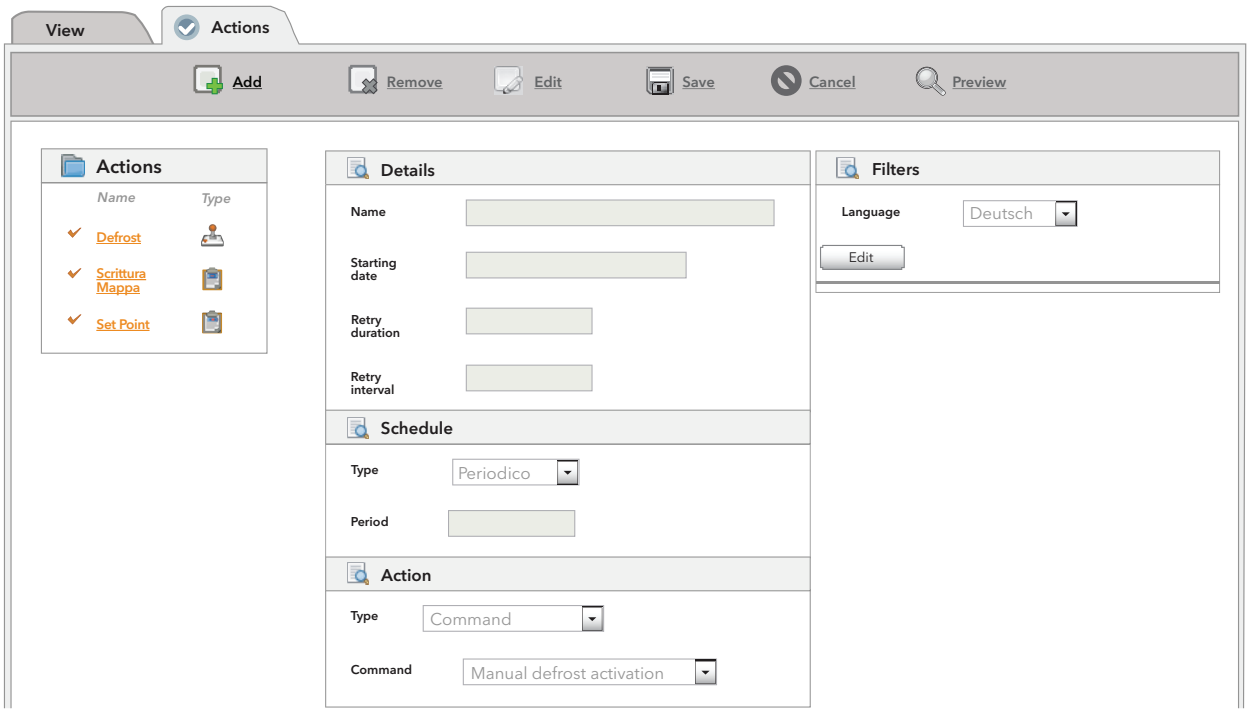
5.4.2 ADD, EDIT OR REMOVE SCHEDULED ACTIVITIES

To edit scheduled activities, go to:

Settings → **Scheduled Activities** → **Actions**

To access these sections, data logging must be suspended (see Data Logging section)

A window similar to this one will open:



The section of the left of the screen contains a list of actions currently defined by the user which can each be selected. The part on the right gives details of the action selected and the option of modifying it. You now have the following options:

- Click the icon or **Add** to create a new scheduled action.
- Select an action and click the icon or **Remove** to delete the selected action.
- Select an action and click the icon or **Edit** to modify the selected action.
- Click the icon or **Save** to save an action that has been edited or created.
- Click the icon or **Cancel** to delete any changed made to an action.
- Select an action or click the icon or **Preview** to open another window in the browser showing a preview of the tools that the selected action will be applied to.

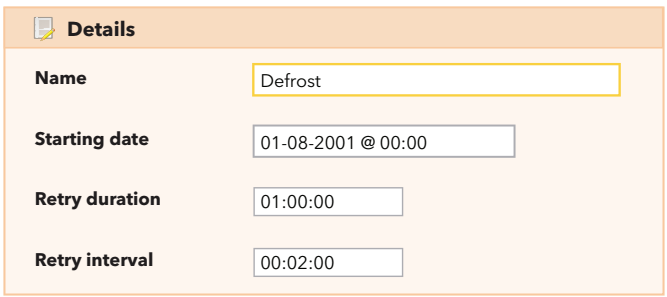
If you change page without saving, any changes made will be lost (the same as clicking Cancel).

The part on the right is split into 4 sections:

5.4.2.1 Details

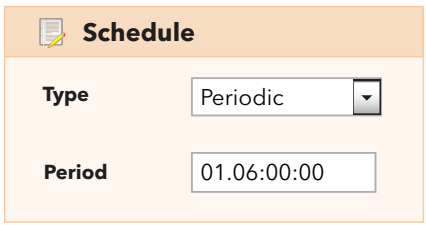
The **Details** tab includes information shared by all types of actions and scheduling:

- The **name** of the action, as given by the user.
- The **start date** (and time) of the scheduled action.
- **Retry duration**.
- **Retry interval**.

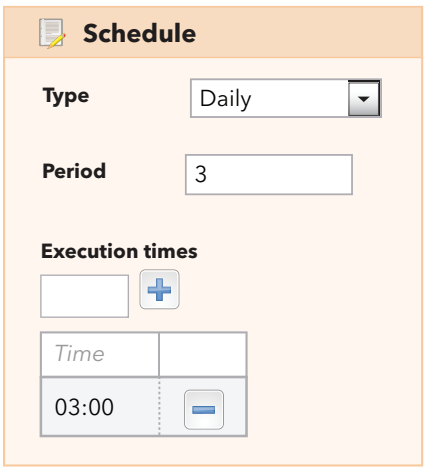


5.4.2.2 Scheduling

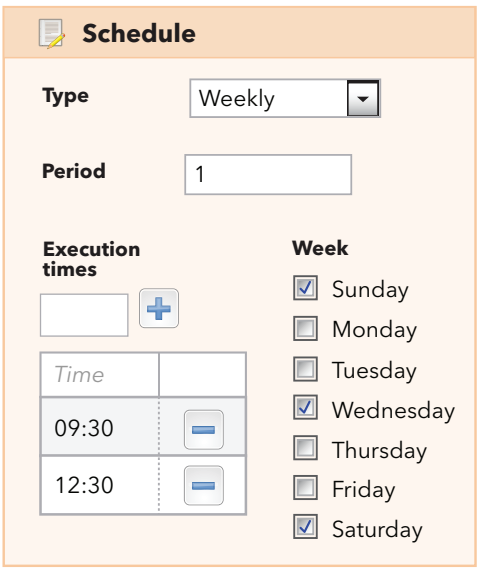
The **scheduling** section allows you to define the **type** of scheduling (periodical, daily or weekly).



Action performed
every 1 day + 6 hours
(30 hours)



Action performed
every three days at 03.00



Action performed
every Sunday, Wednesday and Saturday at
09.30 and 12.30. 12:30

In **periodical** scheduling, users must define an interval of time between two subsequent scheduled events.

- To define the interval of time, click the **Period** box, set the interval in the text box that opens, then click OK.

This type of event will be carried out for the first time at the time set in the **Start date** box in the **Details** section.

In **daily** scheduling, users must define the frequency with which the action should be performed and also at what time of day.

- Enter every how many days the action should be carried out in the **Period** box. If 0 is entered, on saving Televis**Go** will automatically insert a 1.
- To set a time(s) to carry out the action, click the **Execute At** box, enter the time in the window that opens, click OK then ⊕. The time will be added to the list below.
- To delete a time added to the list, click the ⊖ button. If you remove the last time in the list, Televis**Go** will automatically add 01:00 to the list.

This type of event will be carried out at the first available time at the date/time set in the **Start date** box in the **Details** section.

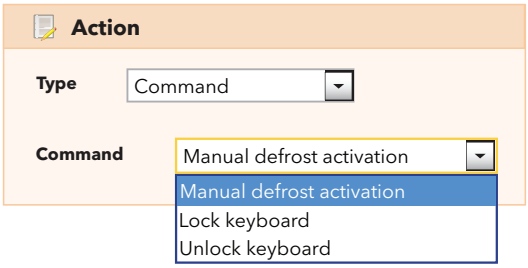
In **weekly** scheduling, users must define every how many weeks the action should be performed and also on what days and at what time of the day.

- Enter every how many weeks the action should be carried out in the **Period** box. If 0 is entered, on saving Televis**Go** will automatically insert a 1.
- To set the days of the week the action should be performed on, select one or more days in the **Week** list. If no day is selected, on saving Televis**Go** will automatically select Sunday.
- To set a time(s) to carry out the action, click the **Execute At** box, enter the time in the window that opens, click OK then ⊕. The time will be added to the list below.
- To delete a time added to the list, click the ⊖ button. If you remove the last time in the list, Televis**Go** will automatically added 01:00 to the list.

This type of event will be carried out on the first available day and at the first available time after the date/time set in the **Start date** box in the **Details** section.

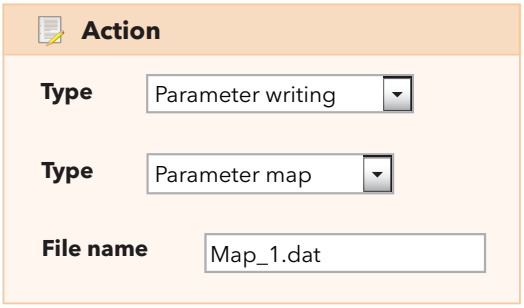
5.4.2.3 Action

The **Action** section allows you to set the **Type** of action to be performed.



A **command** type action specifies the command to be applied to the selected devices (see below).

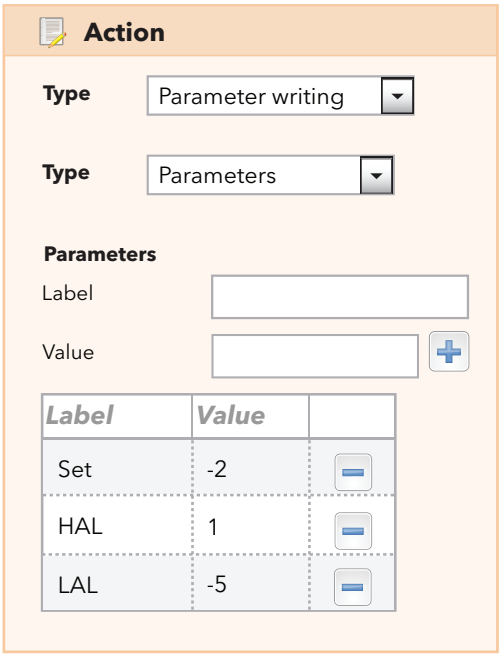
The **command** drop-down menu lists all commands for all devices currently included in the network configuration.



A **write parameters (parameter map)** action requests the file map name to be applied each time the action is performed.

The file name must be specified in the **File Name** box.

To make sure Televis**Go** successfully performs the operation, the file map must be loaded from the system update page (see section entitled "System Update Modes").



For **write parameter** type actions, the list of parameters to be written and their associated values must be entered manually. At least one parameter must be entered.

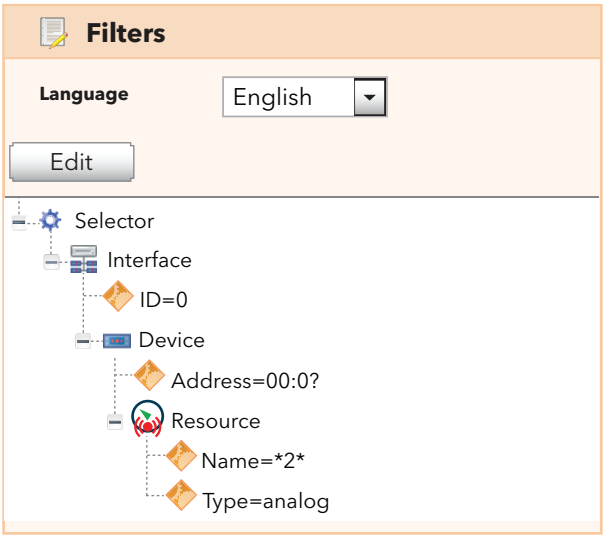
To enter a new parameter, write the label name in the Label box, the value in the Value box then click the button. The label/value pair will be added to the list below.
If there is a ??? label, Televis**Go** will remove it from the list as soon as a new pair is added.
If a pair already exists with the same label, Televis**Go** will overwrite the previously inserted value.

To remove a previously inserted label/value pair from the list, click the button. If you remove the last parameter in the list, Televis**Go** will automatically add a ???/??? pair.

Important! Televis**Go** distinguishes between upper and lower case in label names.

5.4.2.4 Filters

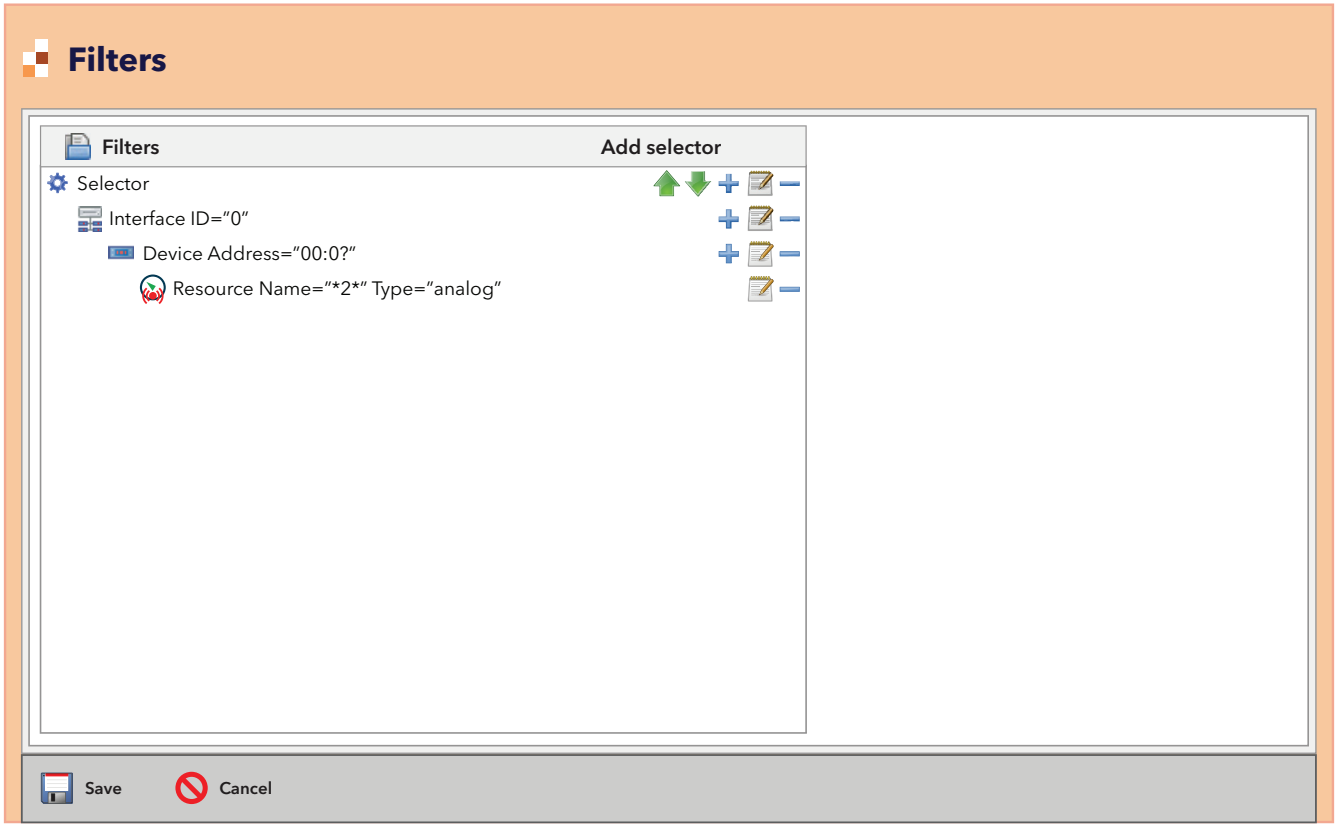
The **Filters** section shows the structure of the current filter.



Example of filter
This filter selects all analogue resources with a "2" (* is a jolly character) in their Italian name and belonging to devices with addresses from 00:00 to 00:09 (? is a jolly character), and which are part of the interface with ID 0.

A filter is applied hierarchically to the network configuration. The purpose of the filter is to make a single, smaller selection from a specific configuration.

This is done by defining rules for the properties of interfaces, devices and resources. Since some of these properties refer to the translated names of resources, the **Language** the filter must use in selecting resources must be specified.
To edit the filter, click the **Modify** button. A window similar to this one will open:

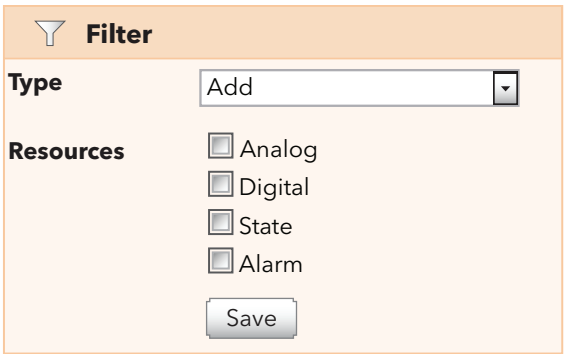


The filter can be modified from this window. The selection and rule hierarchy is shown on the left. The icons beside each line have the following meanings:

Icon	Meaning
	Move the selector up a position.
	Move the selector down a position.
	Add a child rule (selector > interface; interface > device;device> resource)
	Modify selector or rule
	Delete selector or rule and all sub-rules.

A filter consists of at least one selector. Each selector identifies a specific sub-group of resources and can be additive or subtractive. An additive selector adds the resources it has filtered to the final assembly whereas a subtractive selector removes the resources it has filtered. Selector order is therefore significant. A subtractive filter only makes sense when used to filter the result of the additive filter before it.

To modify a selector, click the relative icon. The following box opens on the right of the screen:

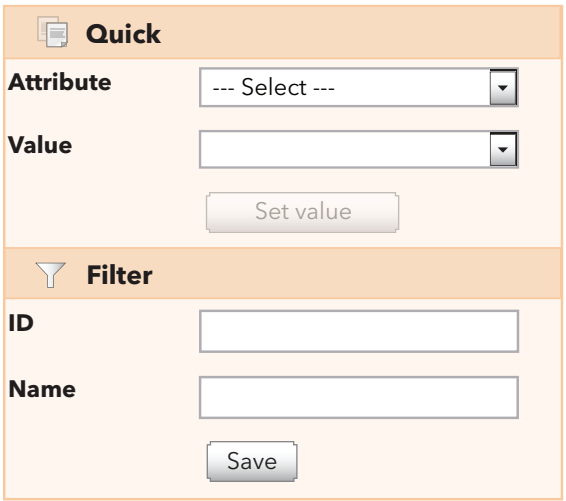


The **Type** can have **add** (additive selector) or **remove** (subtractive selector) values.

A selector also allows you to quickly select all **Resources** in the current configuration that belong to one or more types of resource.

Once all changes have been made to selector properties, click **Save.**

To create a rule at the network interface level, click the icon for the selector that you want to add the rule to. To modify the properties, click the icon of the rule you have just created. The following boxes opens on the right of the screen:



The **Filter** (below) has two attributes that can be used to define the rule.

The **ID** field filters interfaces by their identification number. It only accepts combinations of numbers and ? (question mark) and * (asterisk) jolly characters.

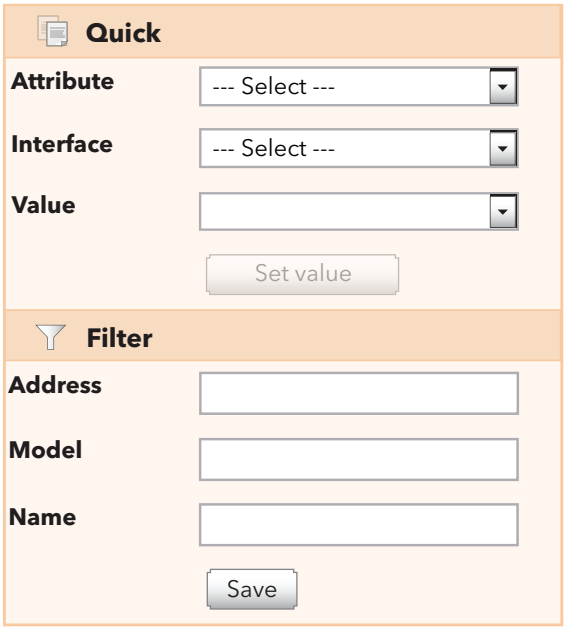
The **Name** field filters interfaces by their name. It only accepts special character combinations which are:

- An IP address with jolly characters (192.168.*.*)
- In the format COMxxx where xxx is a combination of numbers and jolly characters (COM?)
- The 'Logical' text (the logical interface of Televis**Go**).

The **Rapid** (top) box allows you to set the two **ID** and **Name** attributes by selecting values on the basis of the interfaces present in the current configuration.
Select the **Attribute** you want to assign a value to, select a **value** from those listed, then click the **Set Value** key. The field in the **Filter** area will assume this value.

Once all changes have been made to selector properties, click **Save.**

To create a rule at the device level, click the icon for the interface rule that you want to add the rule to. To modify the properties, click the icon of the rule you have just created. The following boxes opens on the right of the screen:



The **Filter** (below) has three attributes that can be used to define the rule.

The **Address** field filters devices by their address. It only accepts combinations of numbers and ? (question mark) and * (asterisk) jolly characters, separated by a semi-colon (00:00, 00:*, 9:1?).

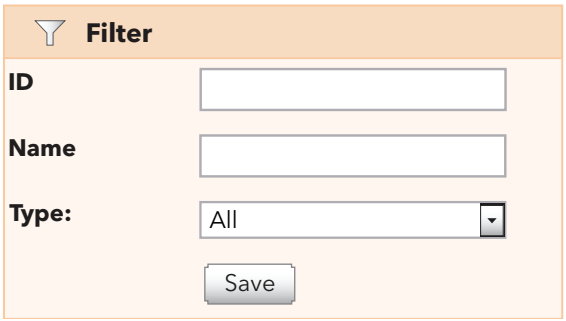
The **Model** field filters devices by model type. Jolly characters ? (question mark) and * (asterisk) can be used.

The **Name** field filters devices by their name. Jolly characters ? (question mark) and * (asterisk) can be used.

The **Rapid** (top) box allows you to set the three **Address, Model** and **Name** attributes by selecting values on the basis of the devices listed for the current configuration.
Select the **Attribute** you want to assign a value to, select an **Interface** from those listed for the configuration, select a **value** from those listed, then click the **Set Value** key. The field in the **Filter** area will assume this value.

Once all changes have been made to selector properties, click **Save.**

To create a rule at the resource level, click the icon for the device rule that you want to add the rule to. To modify the properties, click the icon of the rule you have just created. The following boxes opens on the right of the screen:



The **Filter** has three attributes that can be used to define the rule.

The **ID** field filters resources by their identification number. It only accepts specific combinations of characters, numbers and ? (question mark) and * (asterisk) jolly characters. The ID of a resource consists of 3 upper case letters, 5 numbers followed by a hyphen or other text. For example: INP40001-1, ALM00300.

The **Name** field filters resources by their name translated in the language selected in the previous step. Jolly characters ? (question mark) and * (asterisk) can be used.

The **Type** field filters resources by type (all, analogue only, digital only, status only, alarms only).

Once all changes have been made to selector properties, click **Save.**

NOTE:
1) The jolly character ? (question mark) can be any character.
2) The jolly character * (asterisk) can be any sequence of 0 or more characters.
3) A filter selects a group of resources on the basis of defined rules. The scheduled action is applied to all devices that the filtered resources belong to.
4) A selector with no interface rules and no selected resource type will select all resources in the current configuration.

Once you have defined a filter, click the icon (or **Save**) to save it, or the icon (or **Cancel**) to delete it.
In both cases, you will be returned to the previous screen.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

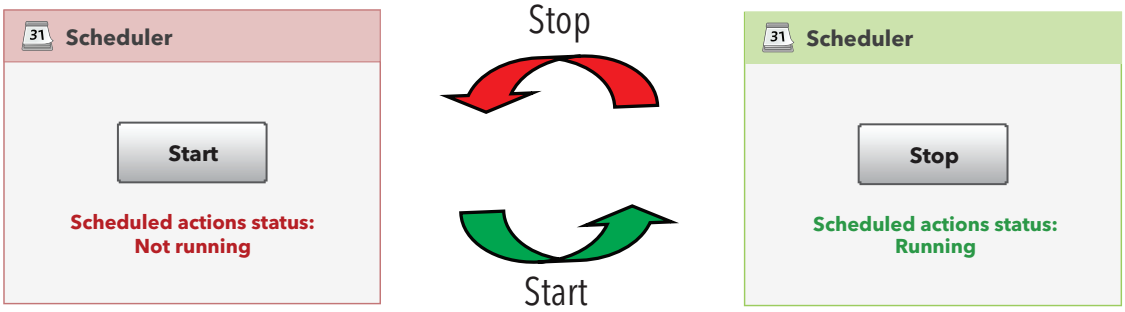
5.4.3 STARTING SCHEDULED ACTIVITIES

To **Start** scheduled activities as scheduled, go to:

Functions → **Start/Stop**

Depending on whether activities have commenced, when you enter this menu one of the windows shown below will open:

- If data logging is suspended, the window on the left opens: click **Start** to start logging.
- If data logging is started, the window on the left opens: click **Stop** to stop logging.



5.5 ENERGY RESOURCES

Televis**Go** allows you to treat the resources of some devices as energy utilities, i.e. measuring the electricity consumption of a plant. The measurements recorded by these resources will be saved in a dedicated database that is separate from the one with saved historical data, and with a separate data logging interval.

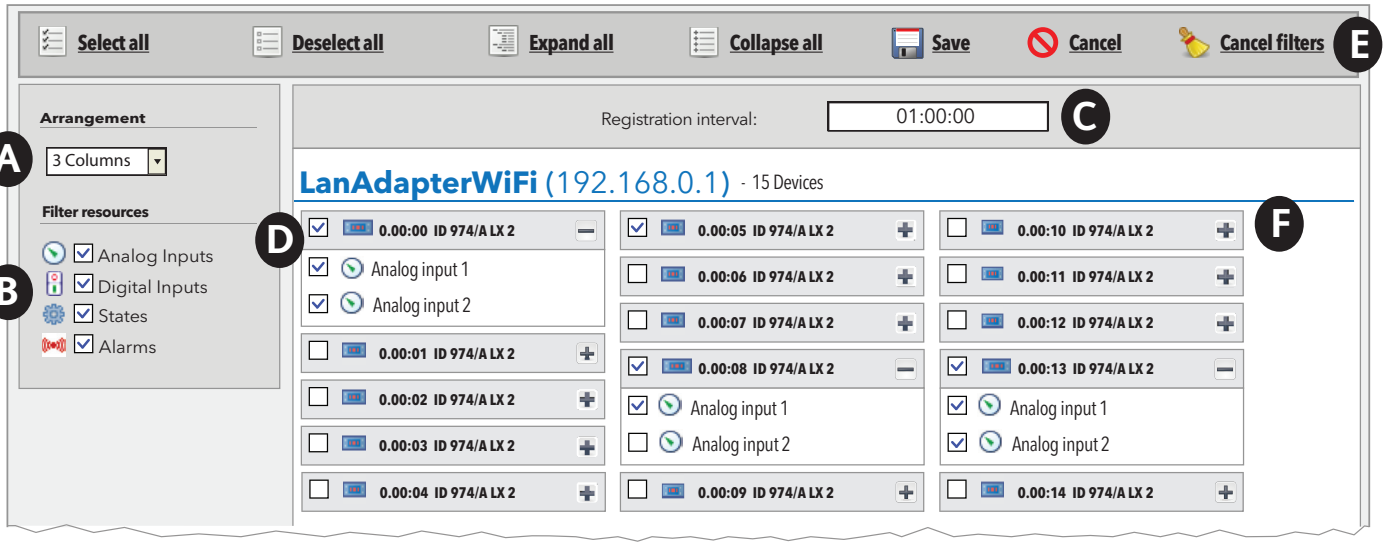
To set up energy resources, go to:

Settings → **Interfaces** → **Energy Resources**

NOTE: If the page is not shown, reduce your browser zoom.

To access these sections, data logging must be suspended (see Data Logging section).

A window like this will open:



The page will show the analogue resources of all recognized Modbus devices (F). If there are no Modbus devices, this page would be empty.

To mark a resource as an energy resource, click the relative check box (to the left of the name) (D). To mark all resources of a device, click the device check box (D).

The ⊟ and ⊞ buttons either collapse and expand individual devices to hide or show associated resources.

To set the data logging time period of energy resources, click the **data-logging interval** box (C), set the interval in the text box that opens, then click OK. The interval must be more than 15 minutes.

The number of columns to display (A) can be defined and the resources filtered (B).

The following buttons are presented at the top:

- **Select All**: to select all devices in the list.
- **Deselect All**: to deselect all devices in the list.
- **Expand All**: to view the resources of all devices in the list.
- **Collapse All**: to hide the resources of all devices in the list.
- **Save:** to save settings entered.
- **Cancel**: to cancel all settings entered.
- **Cancel Filters**: to go back to default filter properties, with all resources selected.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

6.1 INTRODUCTION

Il Televis**Go** can display, save and send the alarm situation in all devices connected to the network (e.g. high temperature alarm) to a group of recipients.

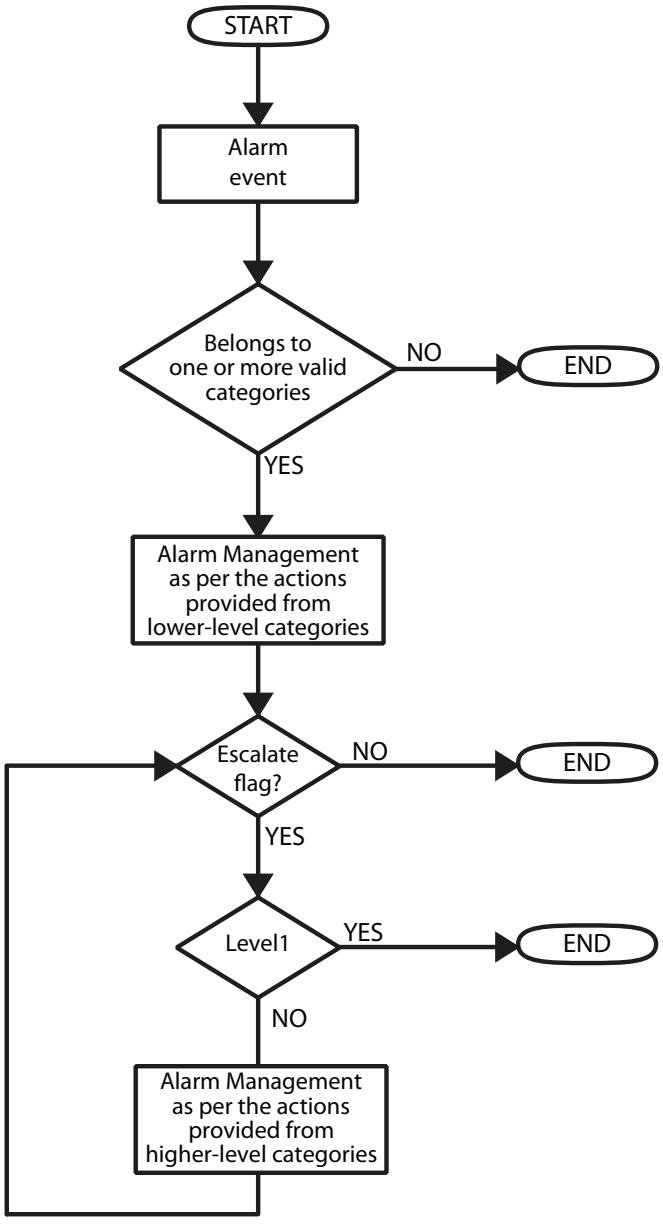
When an alarm is detected, the symbol lights up (if not already on due to a previous alarm).
The alarm log lists all recent "network" alarms saved in non-volatile memory.
Alarms are recorded as soon as an alarm condition is detected.

IMPORTANT: Network alarms are only detected when Televis**Go** data logging is running!

6.2 NEW ALARM ALERT/MESSAGE

Televis**Go** sends an alarm alert to all correctly configured and enabled recipients.
Alarm management is controlled through alarm categories which associate device alarms to a series of actions within specific time intervals.

The methods used by Televis**Go** to send alarms are represented in the following flow chart:



6.2.1 SETTING UP/SENDING ALARM MESSAGES

All switches to alarm condition are recorded, except for when a delay time has been set up and the alarm itself did not persist for longer than the time set in the delay.

This delay time can be set in the configuration panel for network devices (see section entitled Installation/Maintenance - *"Naming Network Devices Manually or from File"*):
from here you can pick which alarms should be signaled and when.

If the list of recipients has been defined, when an error condition arises Televis**Go** will store it and send a message in accordance with the rules established in the relative section (see the "**Recipient Configuration**" section).

6.2.2 RECIPIENT CONFIGURATION

6.2.2.1 SUMMARY

To view the alarm categories, go to:

Settings → **Alarms** → **Summary**

All "Alarm categories" entered will be displayed. The following page opens:

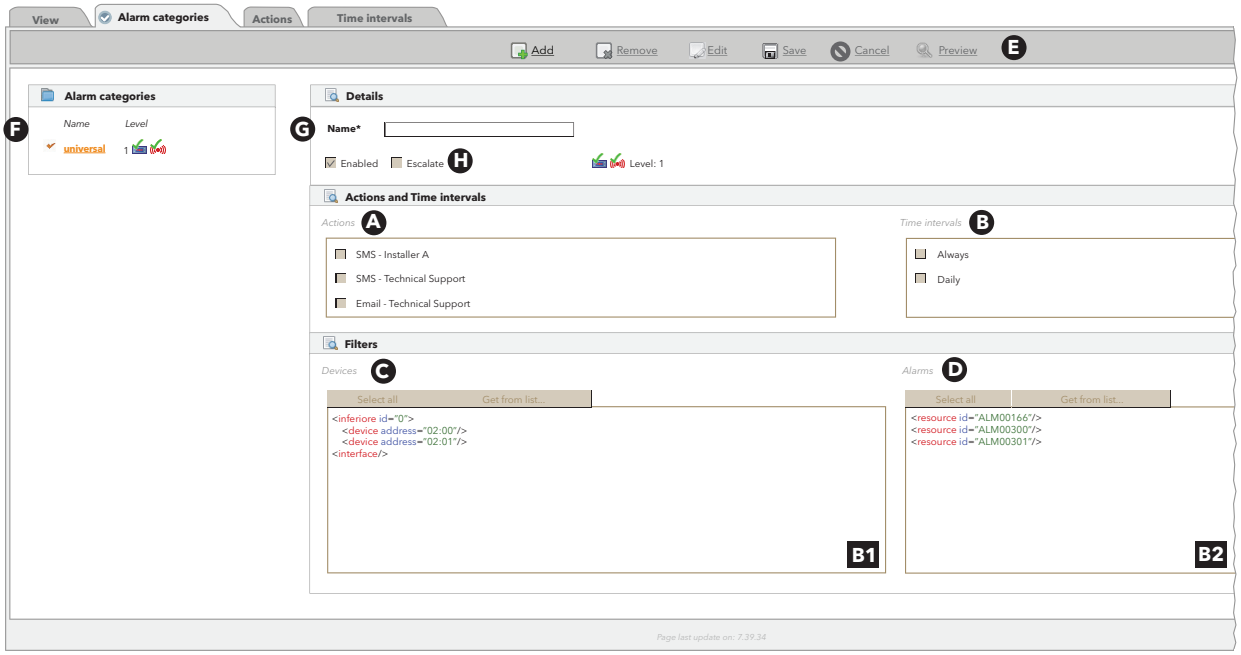
6.2.2.2 ALARM CATEGORIES

To set the alarm categories, go to:

Settings → **Alarms** → **Alarm Categories**

To access this section, data logging must be suspended (see Data Logging section).

A window like this will open:



All "Alarm Categories" set will be shown in the box on the left (**F**).

The following commands are presented at the top (**E**):

- **Add** or : To add a new action.
- **Remove** or : To remove an action saved previously.
- **Edit** or : To modify an action saved previously.
- **Save** or : To save changes made.
- **Cancel** or : To cancel changes made.
- **Preview** or : To open a new page listing all devices associated with the filters.

Click **Add** () or **Edit** () to activate the right-hand part of the window; you will be able to enter all interaction details involving actions, intervals, alarms and devices. Click **Save** or to save the new alarm category, click **Cancel** or to exit without saving.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

The following controls will be visible:

- **Name*** : to set the name to be assigned to the alarm category (**G**)
- **Enabled**: to enable/disable the "Alarm Category" (**H**)
- **Scale**: to enable or disable the checking of higher levels (**H**)
- : to establish whether the following have been selected in box **C**:
  - **ALL** = (all devices selected)
  - **SELECT** = (specific devices selected)
- : to establish whether the following have been selected in box **D**:
  - **ALL** = (all alarms selected)
  - **SELECT** = (specific alarms selected)
- **level**: depending on the content of boxes **C** and **D**, an alarm category is assigned a level from 1 to 4. The following 4 levels can be assigned:

Level	Box **C**	Box **D**
Level 1	All	All
Level 2	All	Select
Level 3	Select	All
Level 4	Select	Select

In the event of an **Alarm**, the system will check whether it is managed, on which device it occurred, whether it belongs to a valid category and if it was activated during a valid interval. If all conditions have occurred, the actions set in the valid alarm categories will take place in accordance with a level-based system.

Televis**Go** always and exclusively takes valid categories into account, and always begins at the lowest-level categories (level 4).
If there are several categories at the same level, the device will perform them all.
Once the Level 4 category actions are complete (if applicable), if at least one Level 4 category has the "**Scale**" box (**H**) selected, the system will check for higher-level categories and carry out the procedures as required.
The same applies to the other levels.

NOTE: 1) If the "**Scale**" box has not been selected, the device will only carry out the category procedures for the level reached.
2) If the "**Scale**" box has been selected in a Level 4 category but there are no valid Level 3 or Level 2 categories, just Level 1 categories, the system will move directly on to the highest level.

Depending on the box in which data is being entered, the following information is required:

A - Actions:
The box displays a list of **actions** set previously (see paragraph entitled "Actions").
Actions to be performed can be selected using the corresponding boxes on the left-hand side.

B -Time intervals:
The box displays a list of **time intervals** set previously (see paragraph entitled "Time intervals").
"Valid to/from" intervals for the alarm category can be selected using the corresponding boxes on the left-hand side.

C - Devices:
The window can be used to select one of the following device options:

- **ALL**: Select all network devices.
- **SELECT**: Select one or more specific devices. At this point, save the changes by clicking **Save** or ; a translation of the selection in XML language will appear in box **B1**.
  Click **Cancel** or to cancel the changes made.

D - Alarms:
The window can be used to select one of the following alarm options:

- **ALL**: Select all network alarms.
- **SELECT**: Select one or more specific alarms. At this point, save the changes by clicking **Save** or ; a translation of the selection in XML language will appear in box **B2**.
  Click **Cancel** or to cancel the changes made.

IMPORTANT: If several time intervals are associated with the same category, the whole group is taken into account.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

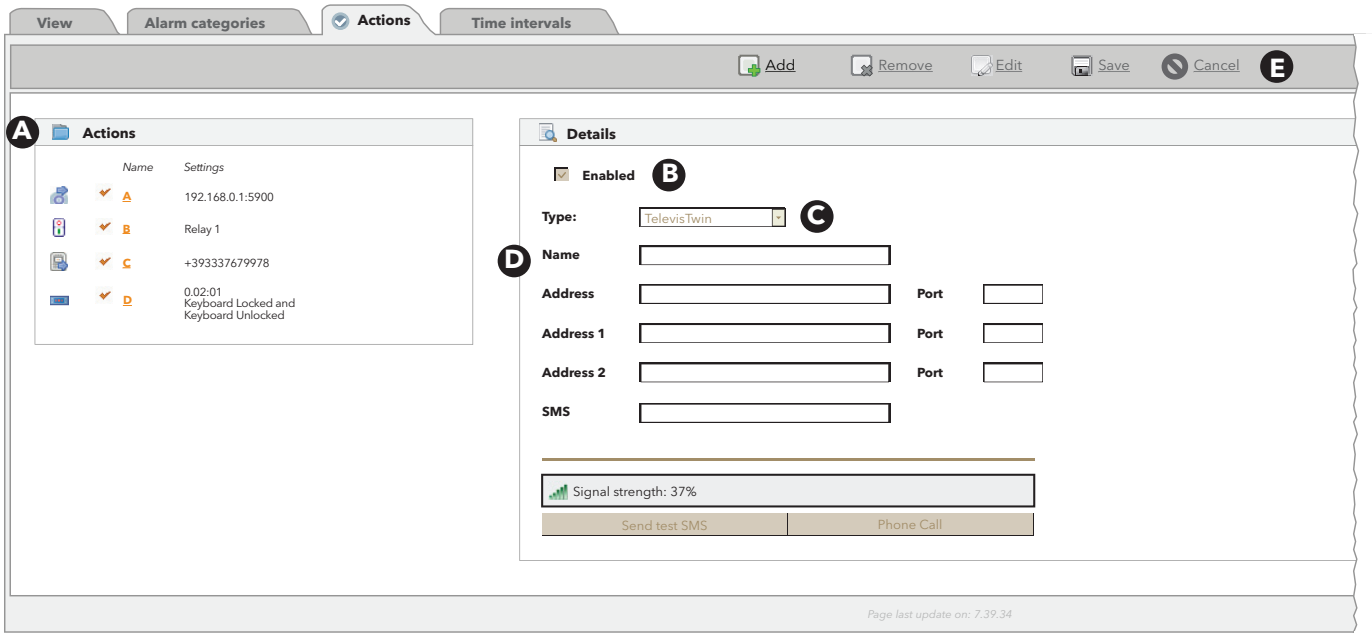
6.2.2.3 ACTIONS

To set the actions to be performed in the event of an alarm, go to:

Settings → **Alarms** → **Actions**

To access this section, data logging must be suspended (see Data Logging section).

A window like this will open:



All "Actions" set will be shown in the box on the left (**A**).

The following commands are presented at the top (**E**):

- **Add** or : To add a new action.
- **Remove** or : To remove an action saved previously.
- **Edit** or : To modify an action saved previously.
- **Save** or : To save changes made.
- **Cancel** or : To cancel changes made.

Click **Add** () or **Edit** () to activate the right-hand part of the window; you will be able to enter all details of actions. Click **Save** or to save the new action, click **Cancel** or to exit without saving.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).
The **Enabled** (**B**) check box enables or disables the action (disabled actions will not be performed by the system).

6 different types of action may be created:

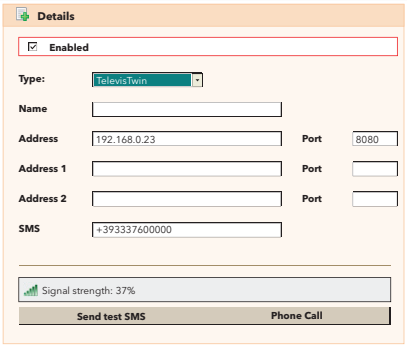
- **TelevisTwin:** Enter the IP addresses of a TelevisTwin to which any alarm messages should be sent.
- **Email:** Enter an email address to which any alarm messages should be sent.
- **TXT via modem:** Enter the telephone number you want TXT messages to go to in the event of an alarm.
- **Telephone call:** Enter the telephone number you want to call in the event of an alarm.
- **Commands:** Set the commands to be sent to one or more devices in the event of an alarm.
- **Relays:** Set the condition of the 2 relays in the event of an alarm.

The types of controls presented **(D)** depends on the selection made from the drop-down menu **(C)**.

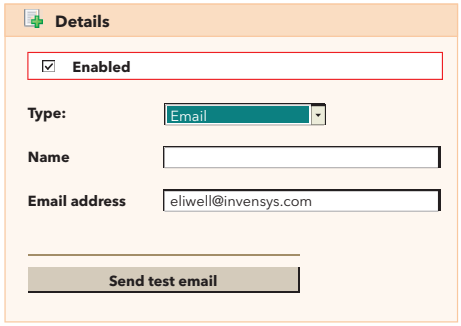
IMPORTANT: Actions are only active when entered in an alarm category.

Depending on the type of action selected, the following windows open:

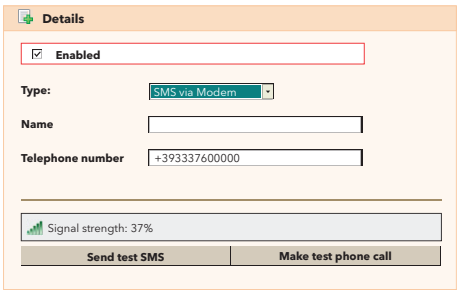
A - TelevisTwin



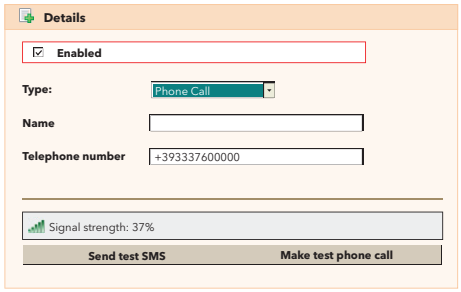
B - Email



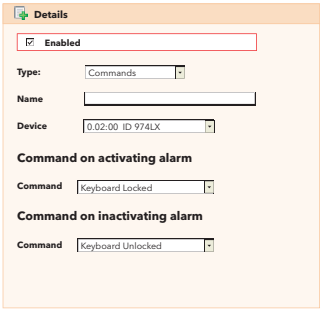
C - TXT via modem



D - Telephone call



E - Commands



Once all selections have been made, click **Save** ( ) to save changes made, or **Cancel** ( ) to cancel them.

If you change page without saving, any changes made will be lost (the same as clicking Cancel).

A - TelevisTwin:

- Name: To enter the name assigned to the action.
- Address: To enter the main IP address of the device (e.g.: 192.168.0.23) and the corresponding port (e.g.: 8080).
- Address 1: To enter an alternative IP address 1 and the corresponding port.
- Address 2: To enter an alternative IP address 2 and the corresponding port.
- TXT: To enter the telephone number you want TXT messages to go to (e.g. +39 333 7600000).
- Signal strength: To establish the signal strength of the modem connected to Televis**Go** (as a percentage).

B - Email:

- Name: To enter the name assigned to the action.
- Email: To enter the email address to which alarm alerts should be sent to.
- Send test email To see if the settings entered are correct (the system tries to send an email to the address provided).

C - TXT via modem:

- Name: To enter the name assigned to the action.
- Telephone number: To enter the telephone number you want TXT messages to go to (e.g. +39 333 7600000).
- Signal strength: To establish the signal strength of the modem connected to Televis**Go** (as a percentage).
- Send test SMS To see if the settings entered are correct (the system tries to send a TXT message to the number provided).

D - Telephone call:

- Name: To enter the name assigned to the action.
- Telephone number: To enter the telephone number to be called (e.g.: +39 333 7600000).
- Signal strength: To establish the signal strength of the modem connected to Televis**Go** (as a percentage).
- Test phone call To see if the settings entered are correct (the system tries to call the number provided).

E - Commands:

- Name To enter the name assigned to the action.
- Type: To identify which device in the network to be targeted.
- Command on alarm activated: To establish what the device has to do if an alarm is activated.
- Command on disabled alarm: To establish what the device has to do after an alarm has been deactivated.

IMPORTANT: always add the recipient's international dialing code before the phone number (for phone calls and TXT messages). (e.g.: for Italy, enter +39).

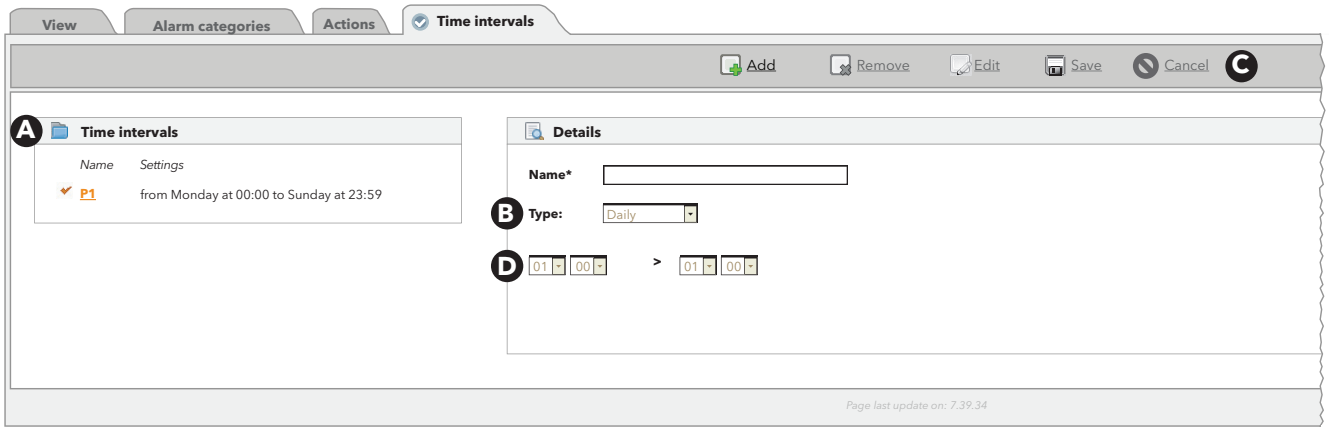
6.2.2.4 TIME INTERVALS

To set the alarm operation time intervals, go to:

Settings → **Alarms** → **Time Intervals**

To access these sections, data logging must be suspended (see Data Logging section).

A window like this will open:



All intervals set will be shown in the box on the left (**A**).

The following commands are presented at the top (**C**):

- **Add** or : To add a new interval.
- **Remove** or : To remove an interval saved previously.
- **Edit** or : To modify an interval saved previously.
- **Save** or : To save changes made.
- **Cancel** or : To cancel changes made.

Click **Add** ( ) or **Edit** ( ) to activate the right-hand part of the window; you will be able to enter all details of time intervals. Click **Save** or to save the new time interval, click **Cancel** or to exit without saving.

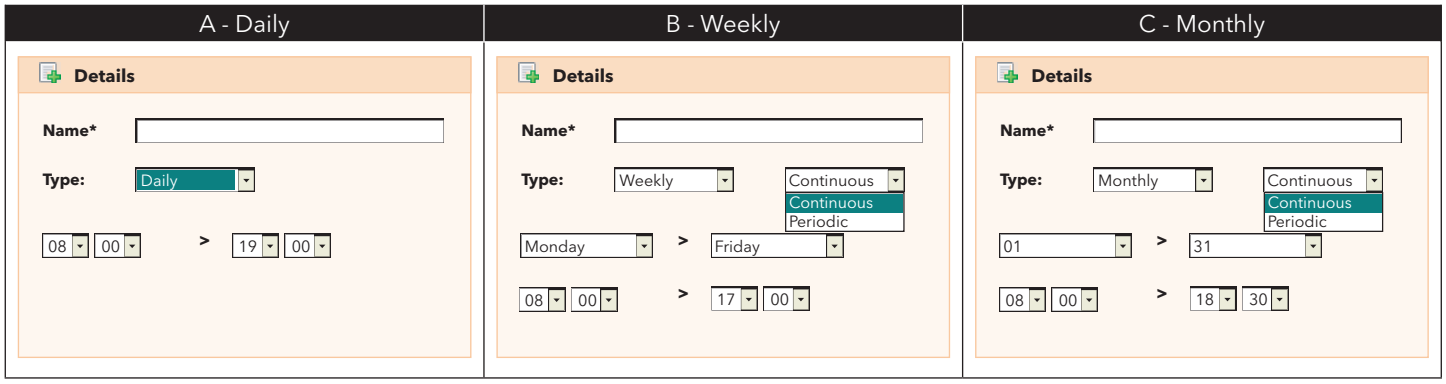
If you change page without saving, any changes made will be lost (the same as clicking Cancel).

3 different types of time interval can be created:

- **Daily:** the interval defined will be applied daily.
- **Weekly:** the interval defined will be applied weekly.
- **Monthly:** the interval defined will be applied monthly.

The types of controls presented **(D)** depends on the selection made from the drop-down menu **(B)**.

Depending on the type of interval selected, the following windows open:

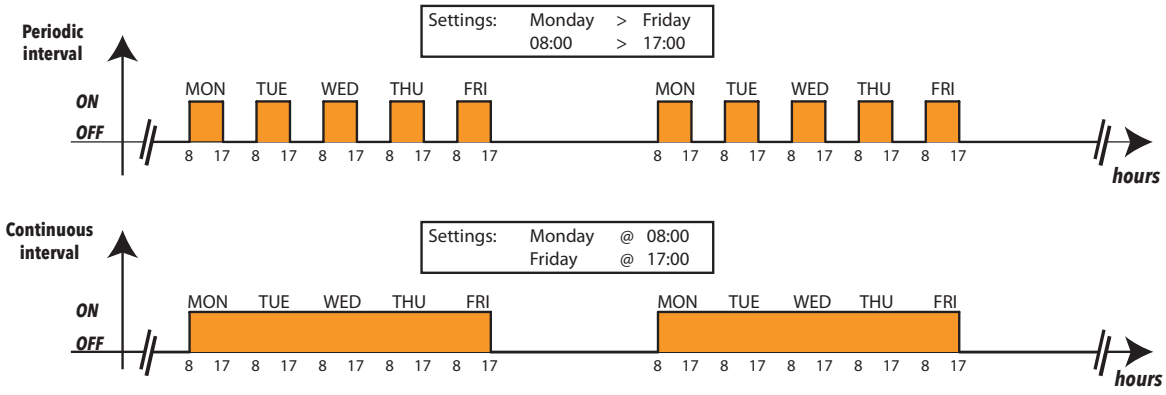


A - Daily time period:

- Name: To enter the name assigned to the interval.
- Interval: The 2 boxes are used to set the valid from and to times, which apply every day.
  (example: 8.00 > 19.00 indicates from 8am to 7pm
  19.00 > 6.00 indicates from 7pm to 6am the following day)

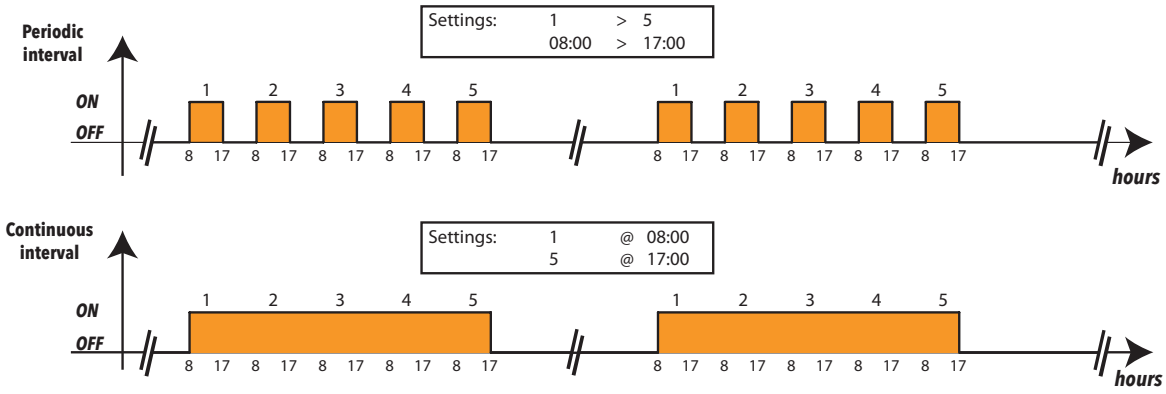
B - Weekly time period:

- Name: To enter the name assigned to the interval.
- Period: Here you should set:
  - the days of the week involved (from -> to)
  - the time period involved (from -> to) on each day
- Continuous: Here you should set:
  - the day of the week and the start time
  - the day of the week and the end time



C - Monthly time period:

- Name: To enter the name assigned to the interval.
- Period: Here you should set:
  - the days of the month involved (from -> to)
  - the time period involved (from -> to) on each day
- Continuous: Here you should set:
  - the day of the month and the start time
  - the day of the month and the end time



IMPORTANT: **The "CONSTANT" time interval is pre-set as part of the system and cannot be deleted (it selects 24 hours for all days of the week).**

6.2.3 MEDIA CONFIGURATION

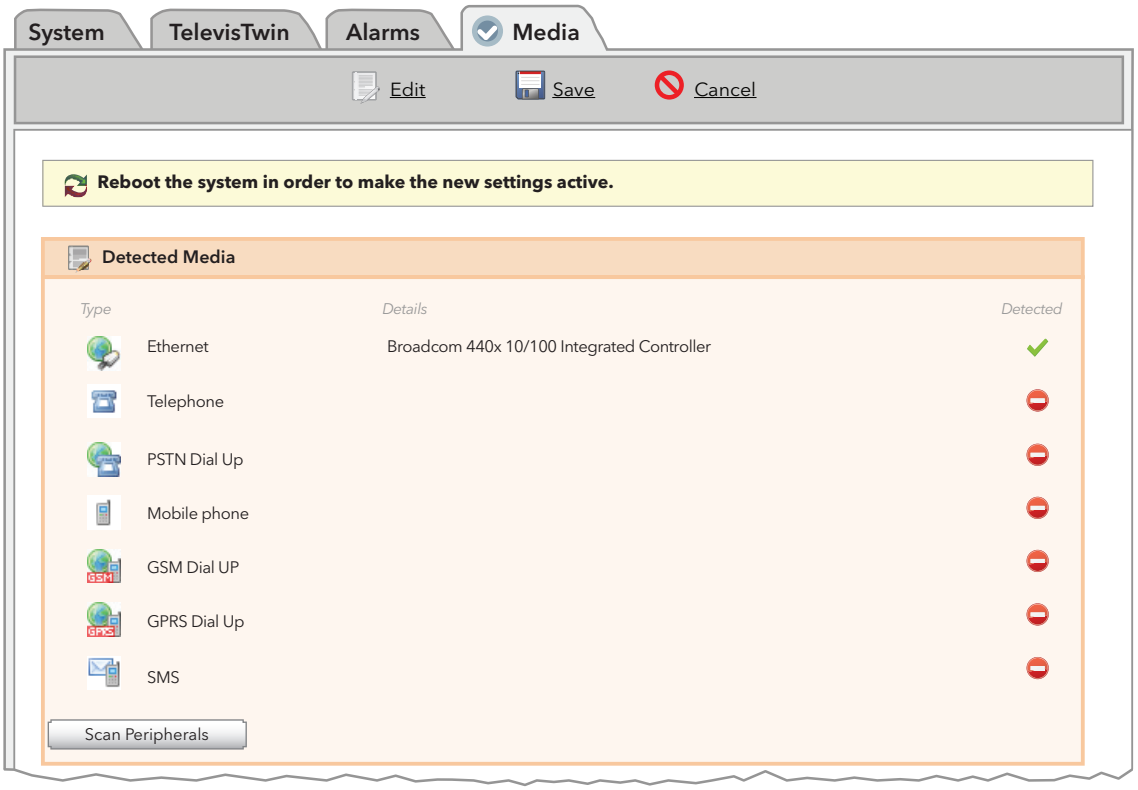
Televis**Go** automatically detects all compatible connectivity devices it is connected to (such as a LAN network or GSM modem for example). Televis**Go** can use these devices (media) to send alarm alerts.

To view media devices detected and assign priorities to them, go to:

Settings → **General Settings** → **Media**

To access these sections, data logging must be suspended (see Data Logging section).

On clicking Modify, the following screen opens:

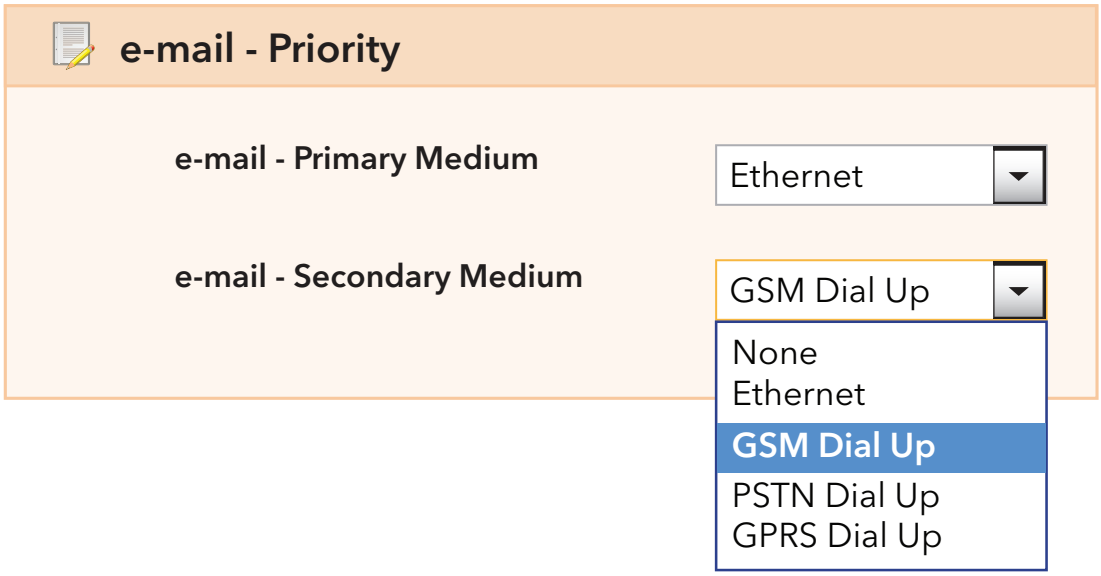


The Media Found box lists all elements located and the **type** of connection. The **Located** column indicates if the medium specified was found or not, and a description is provided in the **Details** columns.

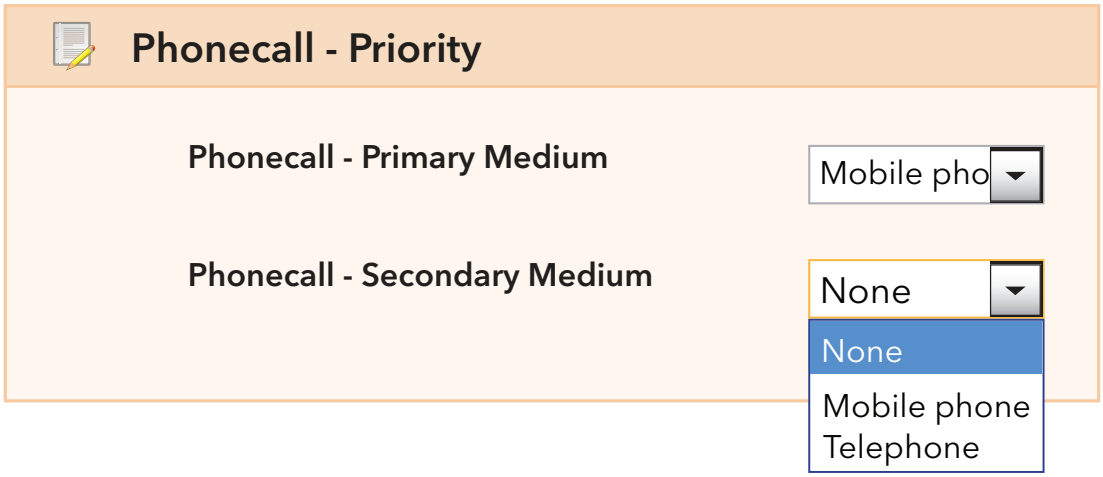
On clicking **Scan peripheral devices**, the system starts scanning for media devices connected to Televis**Go**.

6.2.3.1 MEDIA PRIORITY

Televis**Go** has a backup mechanism for alarm messages sent.
From this page, you can decide in which order the system should sent alerts in.



For example, in the Priority Email box, the primary medium to send alarm alerts via email to can be selected (Ethernet in the example provided). If there is no Ethernet connection, Televis**Go** will try to send the email using the secondary medium (a GSM modem in this case).



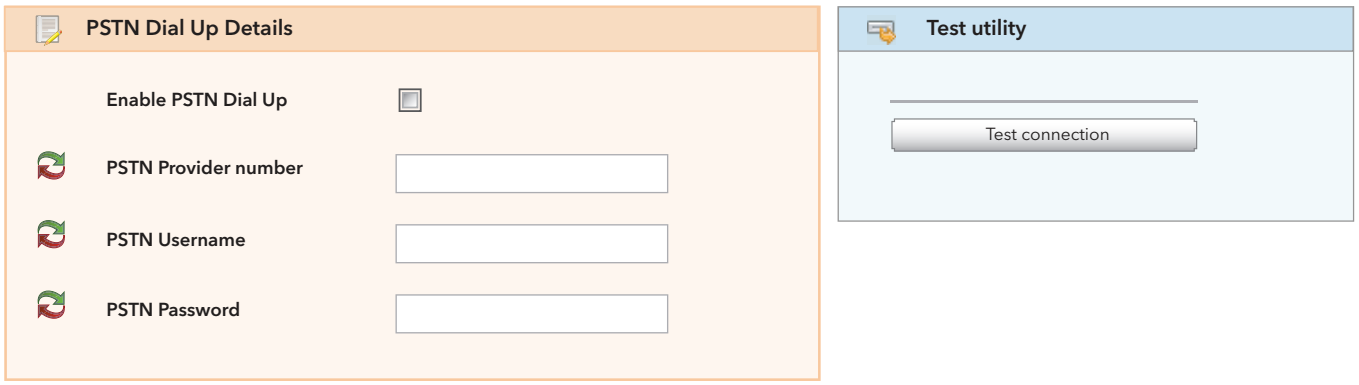
The order of priority for phone call alarm messages is established in the same way.

In both cases, the drop-down menus list all media found for the type of message, even if the specific one is not currently enabled.

6.2.3.2 MEDIA SETTINGS

PSTN, GSM and GPRS connections can also be made from this page.
Each of the three types of connection can be activated from the associated check box.
For PSTN and GSM connections, the following must be entered:

- Number of telephone provider with country code (for example, +39 for Italy)
- User of dial up connection, and
- Password of user for the dial up connection.



For GPRS connections, the service Access Point Name (APN) is required (e.g. internet.mnc012.mcc345.gprs).

7. USER: OPERATION

Using the simple, intuitive interfaces, users can view data and/or alarms in real time, explore the data archive/alarm log, view graphs and download all data viewed.

IMPORTANT: Network alarms and real-time data are only detected when Televis**Go** data logging is running!

7.1 ALARM DISPLAY

All switches to alarm condition are recorded, except for when a delay time has been set up and the alarm itself did not persist for longer than the time set in the delay.

7.2 DATA DISPLAY

There are two ways of viewing data recorded by network devices:

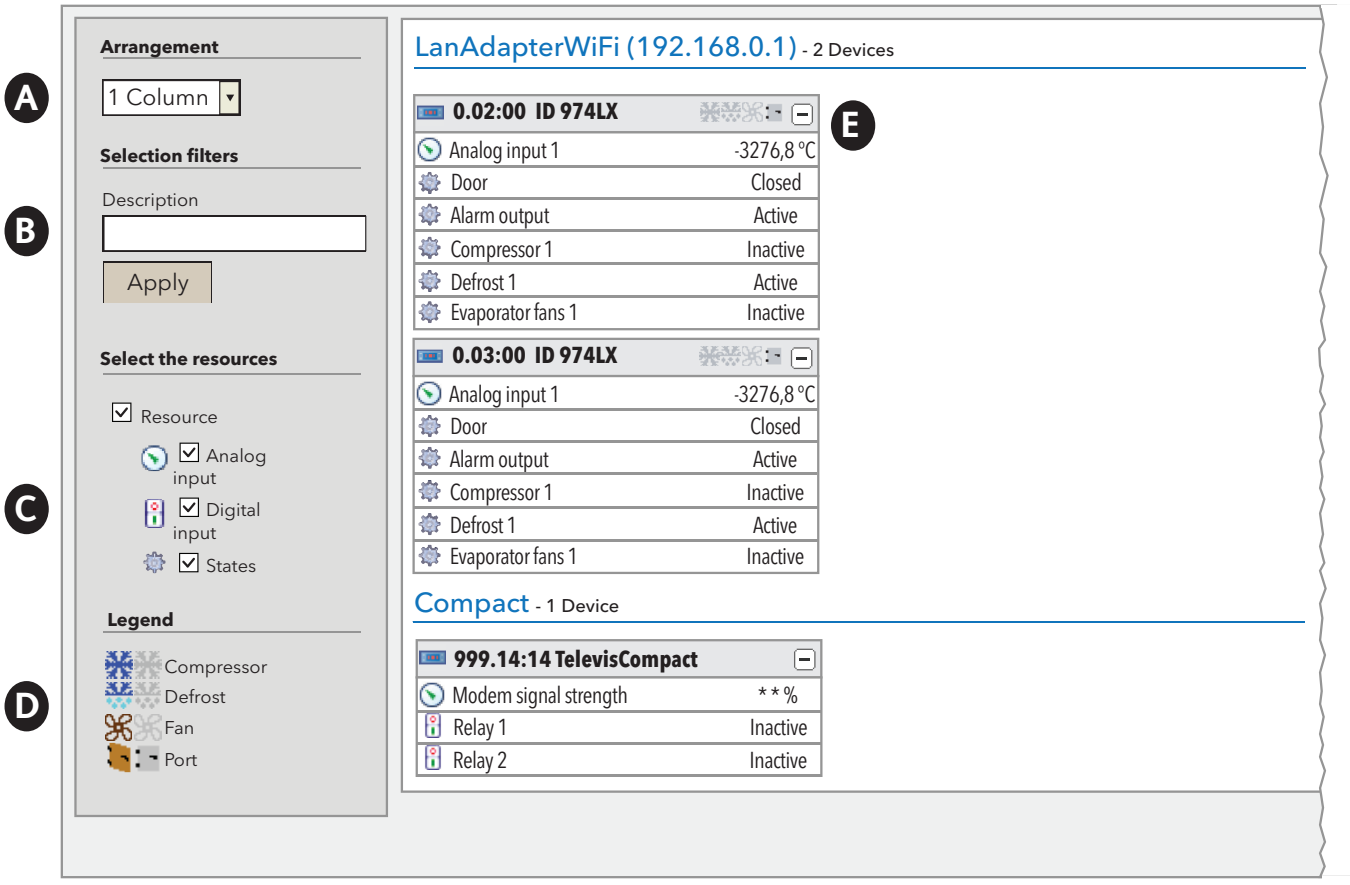
- Real-time data
- Historical data

7.2.1 REAL TIME DATA

To view real time data, go to:

Data → **Real Time Table**

The following screen opens:



This page is similar to the Televis one, and can only be accessed when **data logging is running**.
You can filter by:

- Controller name (B)
- Type of resource (C)

Devices are grouped by interface; users can distribute the list over 1, 2, 3, 4 or 5 columns using the drop-down menu (A).

The four icons at the device name level (E) represent the 4 basic statuses and are always shown:

- Compressor status ( )
- Fan status ( )
- Defrost status ( )
- Door open status ( )

If they are grey, it means the resource is switched off, whereas other colors mean they are active. They are NOT shown in the list below.
The list of relative resources is shown below the device.

If they are grey, it means the resource is switched off or not available for a particular device, whereas other colors mean they are active. They are NOT shown as resources (B).

If there is only one resource in a specific category, the resource is shown as an icon on the same line as the device and omitted from the list of resources.

Clicking the button hides/shows the list of resources for each device.

The following buttons are presented at the top:

- **Expand All**: to view the resources of all devices in the list.
- **Collapse All**: to hide the resources of all devices in the list.
- **Cancel Filters**: to go back to default filter properties, with all resources selected.

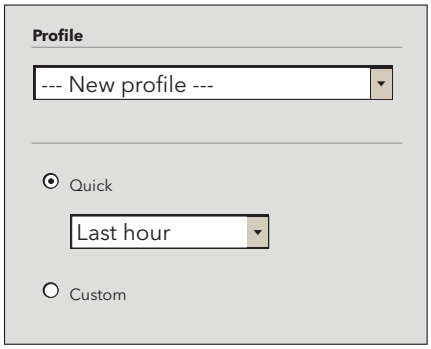
A key is provided in the bottom left giving the meanings of icons.

7.2.2 DATA ARCHIVE

Logged data can be viewed in table format in the various ways described below. To open or view the page, go to:

Data → **Historical Data**

The following screen opens:

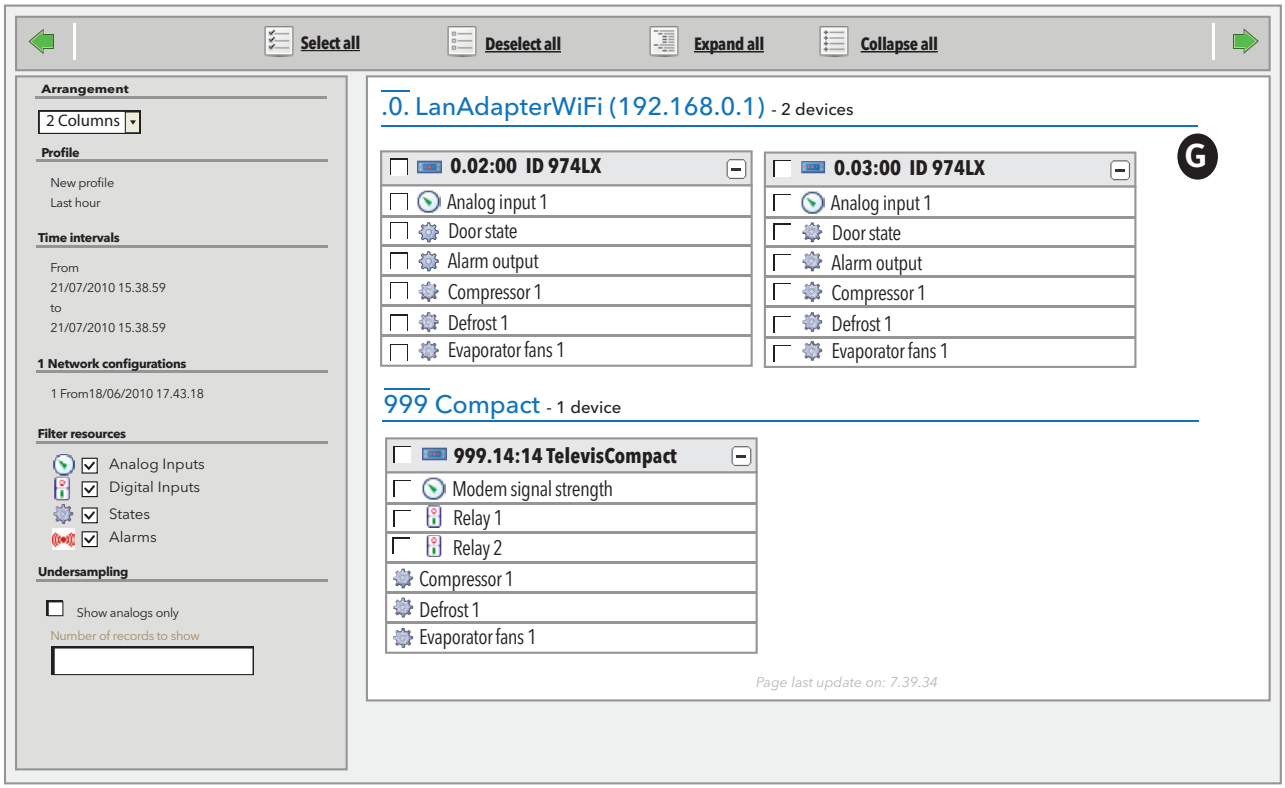


Select Profile Default

Select a relative range (Quick) or absolute range (Custom). In the former case, there is a series of preset intervals that start counting backwards from the current date (by 1, 2, 3, 6, 12 hours, 1 or 2 days). In the latter case, the start/stop date/time must be specified.

NOTE: The first time you use this function, there are no default profiles.

If a profile has been selected, click to go straight to the data presentation page (step 3); otherwise, you will be taken to the next page (step 2).
Click to go to the next page. The next screen is structured as outlined below:



The functions of each part of the interface are:

- (A) **Layout**, to choose a display with 1, 2, 3, 4 or 5 columns.
- (A) **Profile**, identifies the name of the profile selected (if it is new, the profile type is specified).
- (C) **Time intervals**, identifies the time interval set for the display.
- (C) **Network configurations**, identifies the number of network configurations present and since when.
- (E) **Resource Filters**, shows/hides analogue and digital resources, statuses and/or alarms.
- (D) **Sub-sample**, when enabled using the check box and when the number of records to view has been specified (**n**), sub-samples the number of records present by the selected interval (C) (see **NOTE** under "Sub-sampling function").
- (G) list of network devices / resources. All resources can be selected/deselected when deciding which data to view/download.

Clicking the ⊟ button hides/shows the list of resources for each device.

The following buttons are presented at the top:

- **Select All**: Select all devices in the list.
- **Deselect All**: Deselect all devices in the list.
- **Expand All**: to view the resources of all devices in the list.
- **Collapse All**: to hide the resources of all devices in the list.

N.B.: Sub-sampling function

The Sub-sampling function can be summarized as follows: the system examines the extent of the interval to be analyzed, divides it into **n** sub-intervals (where **n** is the number of records set in section F) and displays 1 record for each of the sub-intervals.
Only analogue resources are shown.
Even if selected using other filters, any other resources are not shown.

Select devices (and associated resources as applicable) to capture data from using the check boxes to the left of the name, then click to go to the next page. This screen displays the data selected:

Export Profile

	Time of 09/06/2009	Fruit island 1															
		Analog input 1 (°C)	Modified parameters	Device state	Keyboard enabling	Compressor	Defrosting status	Fans	Auxiliary	Light	Alarm	Buzzer	Reduced set-point	Forced ventilation	Out 1	Out 2	Out 3
	14.31.32	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.32.32	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.33.32	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
⊟	14.34.32	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	14.35.15					0	1	0							0	1	0
	14.35.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.36.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.37.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.38.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.39.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.40.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	14.41.32	41,7	1	1	0	0	1	0	0	1	0	0	1	1	0	1	0
	17.08.03	Plant power off															
	17.08.03	Acquisitions running															
	17.08.09	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	17.09.09	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	17.19.34	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1
	17.20.01	Acquisitions stopped															
	17.20.18	System time change: -1 hour															
	17.20.46	Acquisitions running															
	17.20.52	41,7	1	1	0	1	0	1	0	1	0	0	1	1	1	0	1

The first column identifies the date/time the data was saved, then the next few columns list the previously selected resources with the values recorded for each device.

- The ⊞ icon allows you to expand variations of asynchronous resources (statuses and digital inputs).
- The ⊟ icon allows you to collapse variations of asynchronous resources (statuses and digital inputs).

Four lines with a colored background may also be shown:

- **RED** background: establishes the time during which data logging was stopped (Logging stopped).
- **GREEN** background: establishes the time during which data logging took place (Logging in progress).
- **YELLOW** background: establishes when the time was changed (Time change).
- **GREY** background: establishes the timescale of a power off period or a power supply failure (Plant blackout).

To export the data displayed, click the icon or **Export.** The application will save data in a Csv file (which can be viewed in an electronic spreadsheet like Microsoft Excel) in a user-defined PC.
To save the profile and make it available to retrieve later, click the icon or **Profile**.

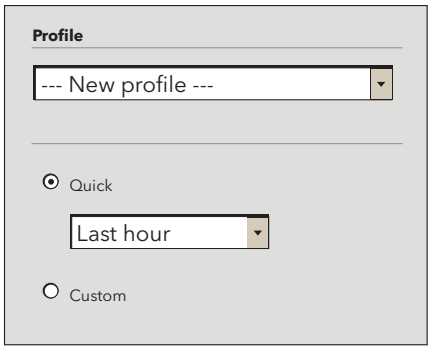
7.2.2.1 Data archive graphs

IMPORTANT: To view graphs, you need to install Adobe Flash player version 10.0.x or later. This plug-in can be downloaded as freeware from the Adobe website (www.adobe.com)

Logged data can be viewed in table format in the various ways described below. To view the page, go to:

Data → Historical graph

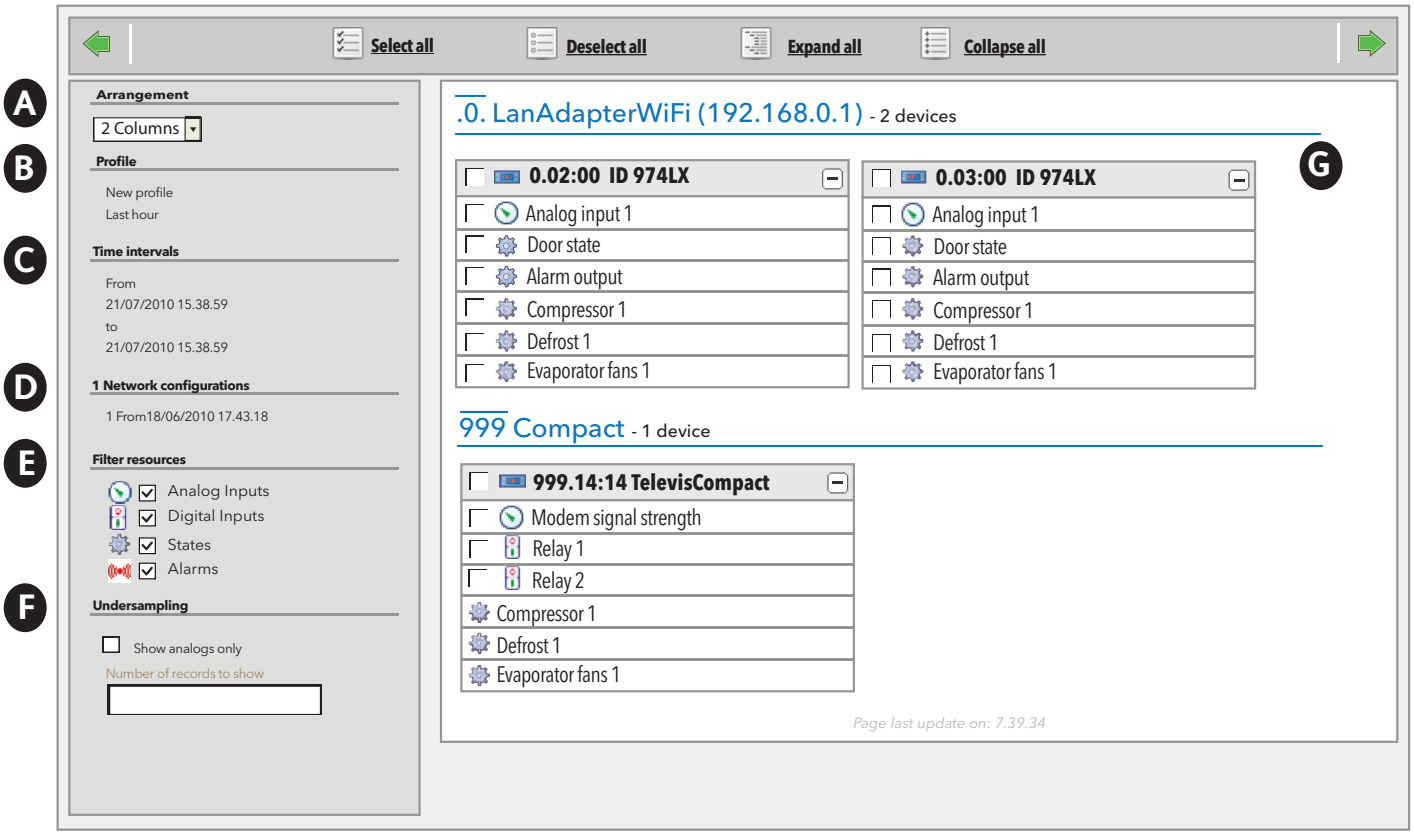
The following screen opens:



Select Profile Default

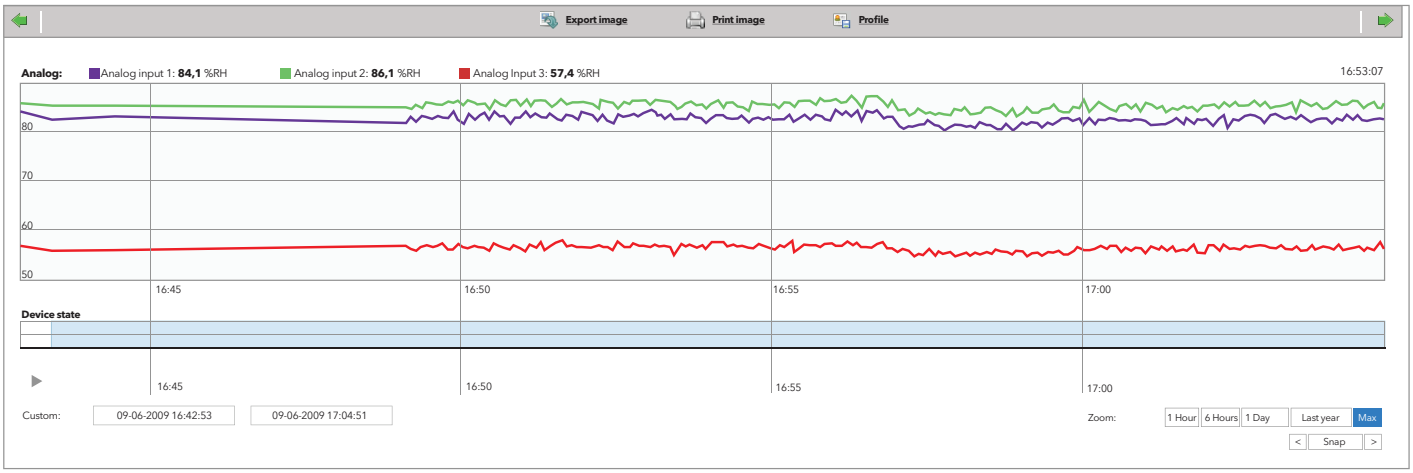
Select a relative range (Quick) or absolute range (Customized). In the former case, there is a series of preset intervals that start counting backwards from the current date (by 1, 2, 3, 6, 12 hours, 1 or 2 days). In the latter case, the start/stop date/time must be specified.

If a profile has been selected, click to go straight to the data presentation page (step 3); otherwise, you will be taken to the next page (step 2).
Click to go to the next page. The next screen is structured as outlined below:



The page layout and functions of each button are as specified in the Data Archive section, which you are referred to.

Select devices (and associated resources as applicable) to capture data from using the check boxes to the left of the name, then click to go to the next page.
The page will show the selected data in a graph:



The curve showing how recordings (y-axis) varied over time (x-axis).

In particular, there is a line for each resource selected, showing trends in values over time: note that there is a label on the left (e.g. 0.10.09 ID 985LX Compressor 1) which highlights:
- Device ID (e.g.: 0.10.09)
- Device ID (e.g.: ID 985LX)
- Resource name (e.g.: Compressor 1)

By definition, digital resources have only 2 statuses and are therefore represented by a bar:
- Colored bar: resource was active
- Plain bar: resource was inactive

The dots along trend lines indicate sample intervals for historical data.

The graph shown is interactive:
Moving the mouse along the lines of each resource, the pointer will change to a ; the values for the resource at that particular point in time will be shown at the top (top right).

Analogue: Analogue input 1: **84.1** %RH Analogue input 2: **86.1** %RH Analogue input 3: **57.4** %RH
Each type of resource is shown in a different color; the resource can be shown/hidden by clicking on a box at the top.
Drag the hand to move back or forward in the time interval shown.

Zoom
Selection boxes to select a specific time band to display are at the bottom right.

1 hour	6 hours	1 day	Last year	Up to

- **1 hour**: shows graphs for the last hour in the previously selected time interval (step 1).
- **6 hours**: shows graphs for the last 6 hours in the previously selected time interval (step 1).
- **1 day**: shows graphs for the last day in the previously selected time interval (step 1).
- **Last year**: shows graphs for the last year in the previously selected time interval (step 1).
- **Max**: shows graphs for the entire interval selected (step 1).

A custom interval can be selected on the left.
The custom interval can be modified by dragging cursors || at the bottom.

The **Add** selection box allows you to set the start the time interval on the day shown from 00:00 to 23:59 on the same day.
The **<** and **>** arrows move you back and forward in the 24 hour time interval.

Play Function
The ▶ button is on the bottom left: when you click the graph it will scroll automatically, replaying the trend over time recorded; click ❚❚ to stop scrolling.

To export the data displayed, click the icon or **Export.** The application will save data in a Csv file (which can be viewed in an electronic spreadsheet like Microsoft Excel) in a user-defined PC.
To save the profile and make it available to retrieve later, click the icon or **Profile**.

To print a screenshot of the current screen, click .

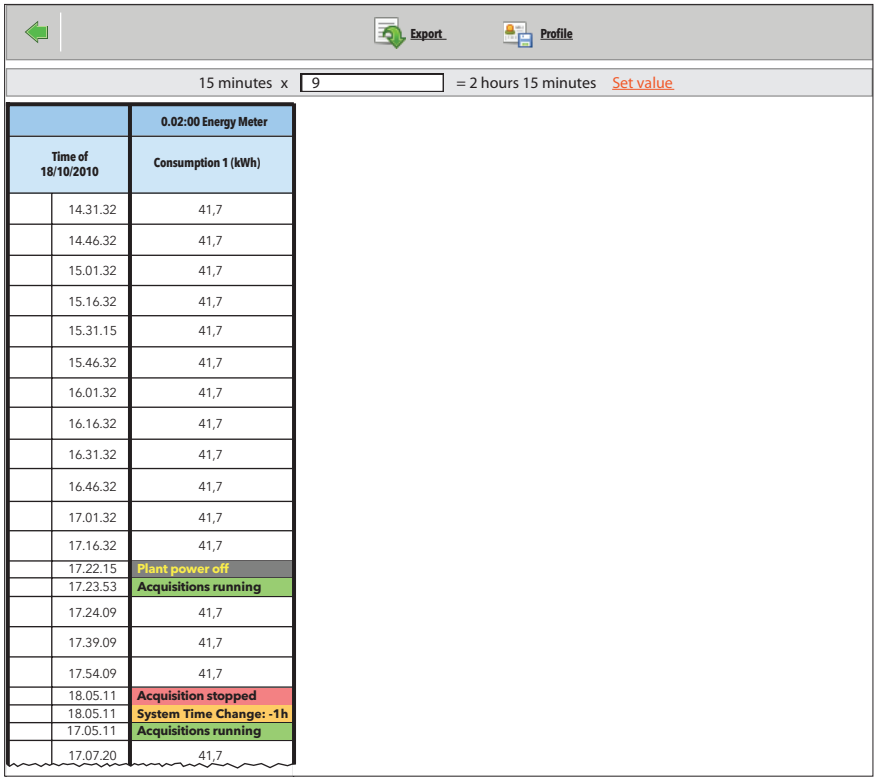
7.2.3 ENERGY RESOURCES REPORT

To view historical data for energy resources, go to:

Data → Energy Report

The same sequence of pages as described in the Data Archive section will open.

- In step 1, you will be asked to select a profile or define a time interval.
- In step 2, all energy resources in network configurations active during the time interval are listed.
- In step 3, a table listing the values of energy resources, grouped by data logging interval, is shown (as illustrated).



		0.02:00 Energy Meter
Time of 18/10/2010		Consumption 1 (kWh)
	14.31.32	41,7
	14.46.32	41,7
	15.01.32	41,7
	15.16.32	41,7
	15.31.15	41,7
	15.46.32	41,7
	16.01.32	41,7
	16.16.32	41,7
	16.31.32	41,7
	16.46.32	41,7
	17.01.32	41,7
	17.16.32	41,7
	17.22.15	Plant power off
	17.23.53	Acquisitions running
	17.24.09	41,7
	17.39.09	41,7
	17.54.09	41,7
	18.05.11	Acquisition stopped
	18.05.11	System Time Change: -1h
	17.05.11	Acquisitions running
	17.07.20	41,7

The difference between one row and the next indicates the change in the measurement recorded during the time interval.

Data is initially grouped by data-logging interval set for the energy resource.

A number greater than or equal to 1 can be entered in the text box as a multiple of the data-logging time for the energy resource.

The page will automatically calculate the value of the resulting period (this takes about one second).

To confirm the selected grouping period, click **Set value.**

7.2.4 ENERGY RESOURCES GRAPH

To view the energy resources graph, go to:

Data → Energy Graph

The same sequence of pages as described in the section click **7.3.1.3 Data Archive Graph** opens.

- In step 1, you will be asked to select a profile or define a time interval.
- In step 2, all energy resources in network configurations active during the time interval are listed.
- In step 3, the energy resource group graph will be shown, as described in:
  7.3.1.4 Energy Resources Report.

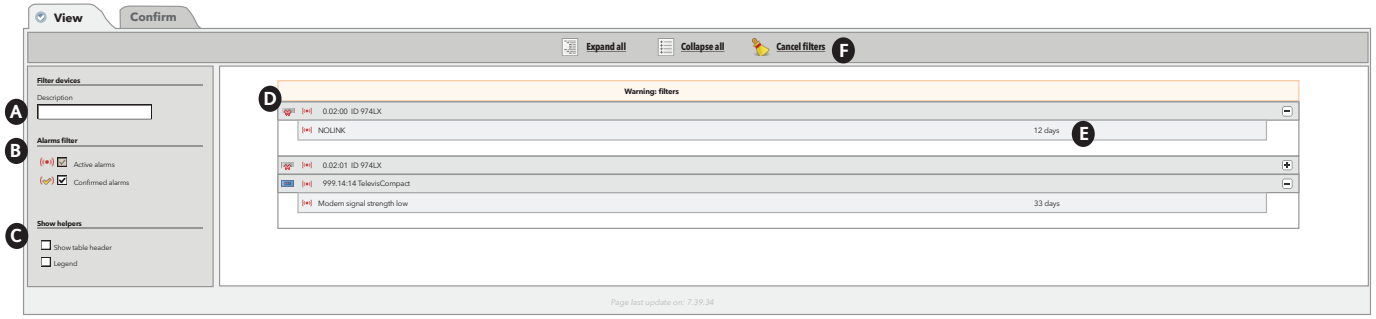
7.2.5 REAL TIME ALARMS

This page only opens when **data logging is running**.

Go to:

Alarms → **Alarm Status**

The following screen opens:



The page is structured to show the hierarchy of devices and each of their alarm-type only resources, listed below. For active alarms, the last row on the right shows how long the alarm has been active for.

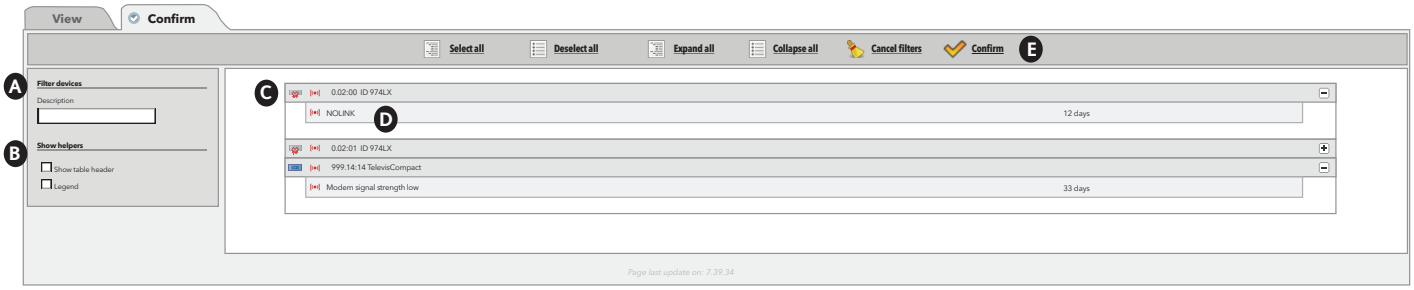
The functions of each part of the interface are:

- (A) **Device filters**, you can filter alarms by controller name in Description.
- (B) **Alarm filter**, allows you to select alarms by type (active, confirmed alarms) (active alarms cannot be deselected).
- (C) **View headings**, to view/hide table headings and key.
- (D) List of alarm resources present in device, already filtered in (B).
- (E) Shows how long each alarm has been active.

The following buttons are presented at the top (F):

- **Expand All**: to view alarms for all devices in the list.
- **Collapse All**: to hide alarms for all devices in the list.
- **Cancel Filters**: to restore the display of all alarms and cancel device (A) and alarm (B) filters.

To acknowledge all alarms present, click **Confirm**. The following window opens:



The functions of each part of the interface are the same as for the Summary page:

- (A) **Device filters**, you can filter alarms by controller name in Description.
- (C) **View headings**, to view/hide table headings and key.
- (D) List of alarm resources present in device, already filtered in (B).

Alarms can be selected using the check box to the left of each alarm (D).

The following buttons are presented at the top (E):

- **Select All**: Select all alarms in the list.
- **Deselect All**: Deselect all alarms in the list.
- **Expand All**: to view alarms for all devices in the list.
- **Collapse All**: to hide alarms for all devices in the list.
- **Cancel Filters**: to restore the display of all alarms and cancel device (A) and alarm (B) filters.
- **Confirm:** to confirm selected alarms. Confirmed alarms change icon type (from red to yellow).

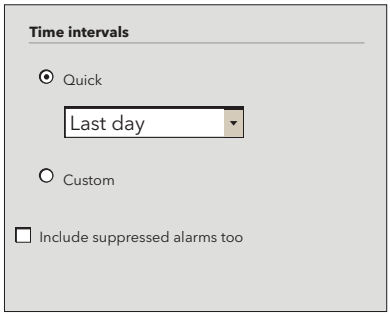
Confirming an alarm does not change alarm status; the only related purpose is to alert that the alarm has been viewed (for instance, when there is more than one supervisor, a confirmed alarm means that "someone has already acknowledged it").

7.2.6 ALARM LOG

Logged data can be viewed in table format in the various ways described below. To open or view the page, go to:

Alarms → **Alarm Log**

The following screen opens, depending on the interval set:

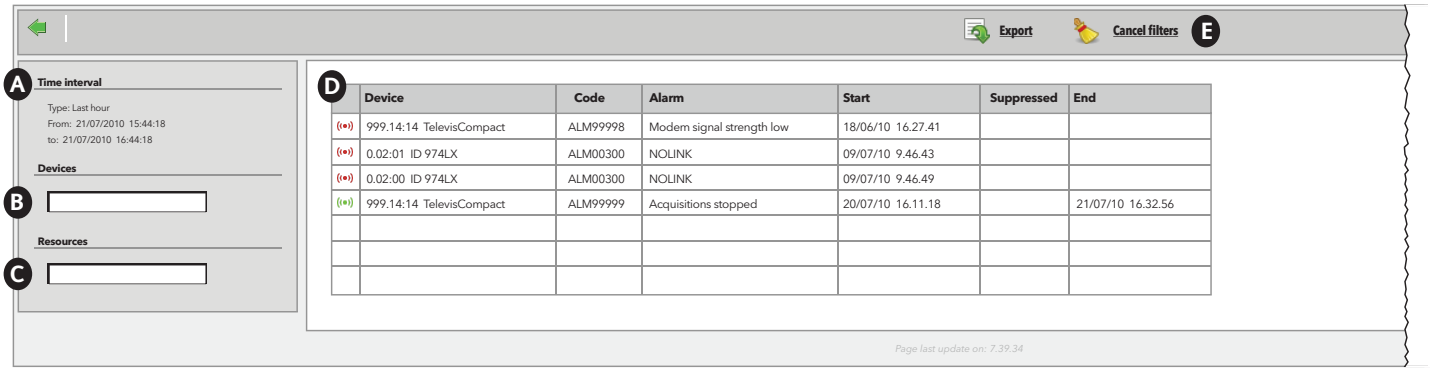


Select Default **Interval**

Select a relative range **(Quick)** or absolute range **(Customized)**. In the former case, there is a series of preset intervals that start counting backwards from the current date (by 1, 2, 3, 6, 12 hours, 1 or 2 days). In the latter case, the start/stop date/time must be specified.

Overridden alarms can be included by clicking the appropriate check box.

Click to go to the next page. The next window shows all alarms in the selected period:



IMPORTANT: In this case, you can only select the time range, not the device.

The functions of each part of the interface are:

- (A) **Time interval**, to specify the period of time covered.
- (B) **Devices**, to filter by device name.
- (C) **Resources**, to filter by resource name.
- (D) Shows details of alarms:
  - icon:
    - RED if there is at least one active alarm.
    - GREEN if there is an acknowledged alarm.
  - Device: device name
  - Code: device code
  - Alarm: alarm name
  - Start: alarm start date/time
  - Overridden: indicates how long after the alarm it was overridden.
  - End: date/time alarm ended.

The following buttons are presented at the top (E):

- **Export**, saves data to PC as a Csv file (which can be opened in Microsoft Excel).
- **Cancel Filters**: to restore the display of all alarms and cancel device (B) and resource (C) filters.

7.2.7 DOWNLOAD DATA

To download the data archive or alarm log, go to:

Data → **Historical Table** (Extract data from historical table)

Data → **Historical Graph** (Extract from historical graph)

Data → **Energy Report** (Extract data from Energy Report)

Data → **Energy Graph** (Extract data from Energy Graph)

Alarms → **Alarm Log** (Extract data from Alarm Log)

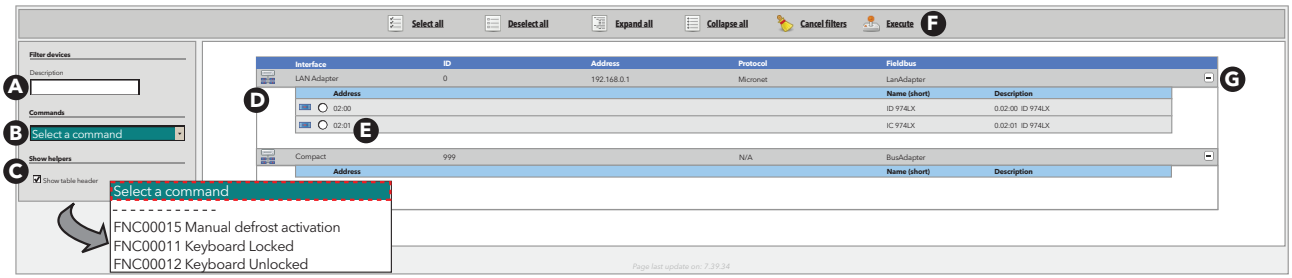
In all 3 cases, click the icon or **Export**. On clicking, the device saves data for the selected period to PC as a Csv file (which can be opened in Microsoft Office Excel).

7.3 NETWORK COMMANDS FOR DEVICES

To send commands to devices, go to:

Functions → **Commands**

The following screen opens:



The following controls will be visible:

- (A) **Device filters**, to filter by device description.
- (B) **Commands**, to select the command to be sent to the device
  (the list groups together all commands available for all network devices).
- (C) **View headings**, to view/hide headings.
- (D) View list of network devices grouped by interface.
- (G) Expand/hide devices in an interface.

Devices can be selected using the relative check box to the left of the address (E).

The following buttons are presented at the top (F):

- **Select All**: Select all devices in the list.
- **Deselect All**: Deselect all devices in the list.
- **Expand All**: to view the devices of all interfaces in the list.
- **Collapse All**: to hide the devices of all interfaces in the list.
- **Cancel Filters**: to restore the display of all devices and cancel device filters.
- **Run**: to send the selected command to selected devices.

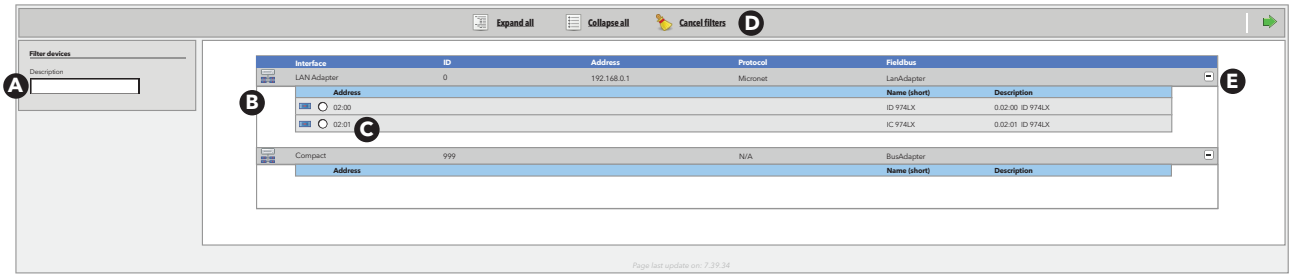
7.3.1 PARAMETERS

IMPORTANT: A parameter map is not available for all devices.
This function is not available for these devices.

To **Read and Write** the parameters of individual devices, go to:

Functions → **Parameters**

The following screen opens:



The following controls will be visible:

- (A) **Device filters**, to filter by device description.
- (B) View list of network devices grouped by interface.
- (E) Expand/hide devices in an interface.

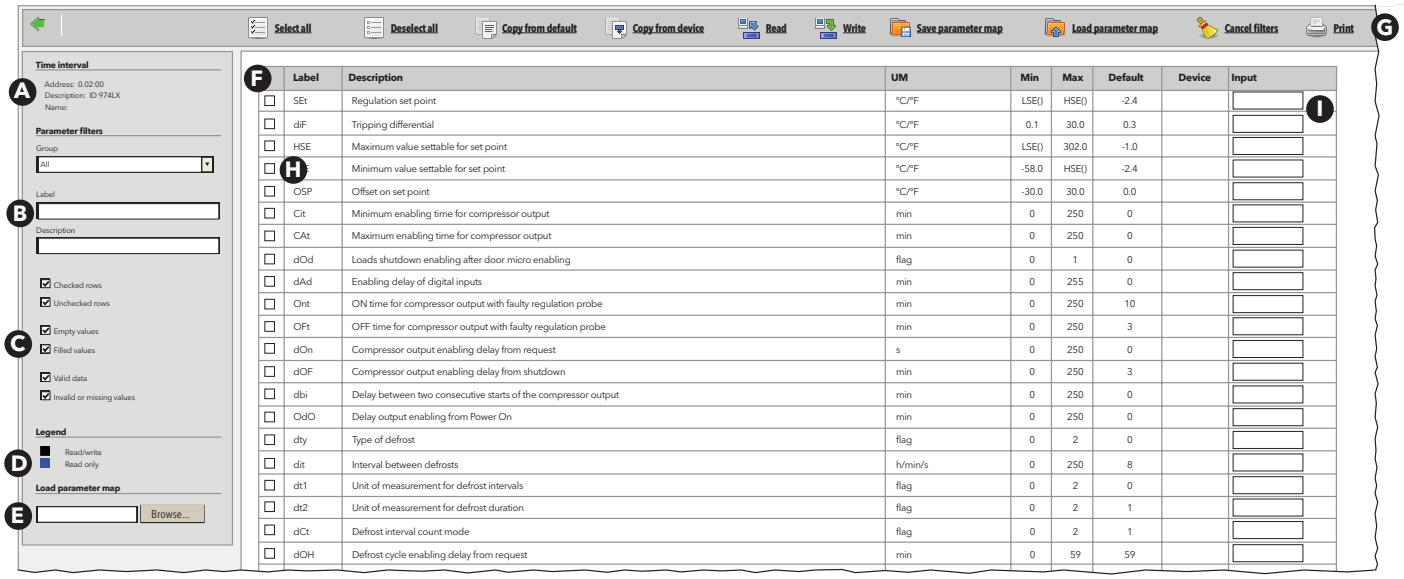
Devices can be selected using the relative radio button to the left of the address (C).

Only one device can be selected at a time.

The following buttons are presented at the top (F):

- **Expand all**: to view the devices of all interfaces in the list.
- **Collapse All**: to hide the devices of all interfaces in the list.
- **Cancel Filters**: to restore the display of all devices and cancel device filters.

Click to go to the next page. This screen shows all parameters of the selected device:



The following controls will be visible:

- (A) **Device selected** signals the Address, Description and Name of the selected device.
- (B) **Filter parameter 1**, to filter parameters by Group, Label or Description.
- (C) **Filter parameter 2**, there are three pairs of check boxes, each with a different function:
  - **Selected rows/Unselected rows(*)**: filters the selected or unselected rows. When both check boxes are clicked, all rows are shown.
  - **Cells empty/Cells contain value(*)**: filters rows with or without user-inserted values. When both check boxes are clicked, all rows are shown.
  - **Valid data/Data incorrect or missing(*)**: filters rows with or without valid data. When both check boxes are clicked, all rows are shown.
- (D) **Key**, to see how to tell editable parameters from non-editable ones.
- (E) **Load parameter map**, to load a map from file. Clicking Browse will open a window to select a file.
- (F) lists parameters (filtered and unfiltered).

(*) If both check boxes in a pair are deselected, the table will be empty.

Parameters can be selected using the relative check box to the left of the label (H).
The values to be set can be entered using the **enter values** text box (I).

The following buttons are presented at the top (G):

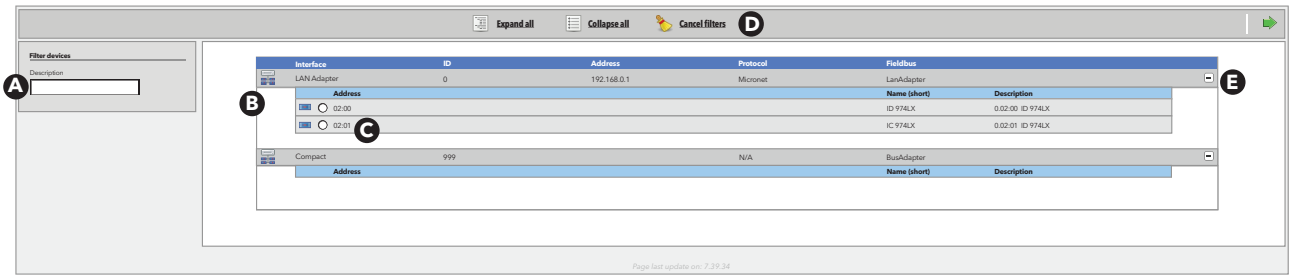
- **Select All** selects all parameters displayed.
- **Deselect all** deselects all parameters displayed.
- **Copy from default** copies default values to the "Enter values" column.
- **Copy from device** copies values currently read by device to the "Enter values" column.
- **Read** can be used to read the value of the selected parameters saved in the device.
- **Write** can be used to write the values in the "Enter values" text box to the selected devices.
- **Save parameter map** can be used to save the parameter map with the new values entered.
- **Load parameter map** loads a parameter map which was previously saved to disk and selected using the relevant box (E).
- **Cancel Filters** cancels any previously configured filters (B)
- **Print** the current parameter map.

7.3.2 RVD

To **Acess** this function, go to:

Functions → **RVD**

The following screen opens:



The following controls will be visible:

- (A) **Device filters**, to filter by device description.
- (B) View list of network devices grouped by interface.
- (E) Expand/hide devices in an interface.

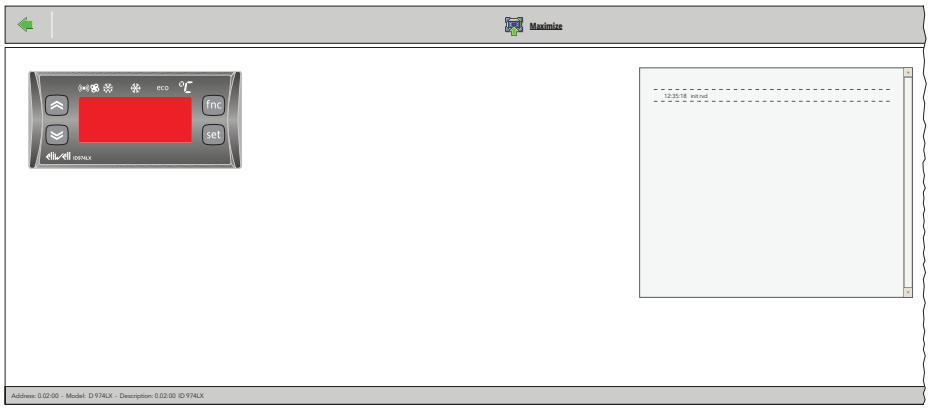
Devices can be selected using the relative radio button to the left of the address (C).

Only one device can be selected at a time.

The following buttons are presented at the top (F):

- **Expand all**: to view the devices of all interfaces in the list.
- **Collapse All**: to hide the devices of all interfaces in the list.
- **Cancel Filters**: to restore the display of all devices and cancel device filters.
-

Click to go to the next page. A picture of the selected device will be shown:



The LEDs and display pictured will be the same as the real device. The various operations that you can do on the screen (press the keys, view active LEDs, etc) are the same as those you can do directly on the device itself.

IMPORTANT: Not all devices have the RVD function. For a list of all compatible devices, see the attached file "Controllers_Compatible". A full version of the file is available as a pdf file on our website www.eliwell.it.

7.3.3 CHANGING THE LANGUAGE

To change the interface language, click the icon in the bottom right-hand corner of the screen.
The login page will open:

Change the language in "**User interface language**" and enter your user name and password again to login.

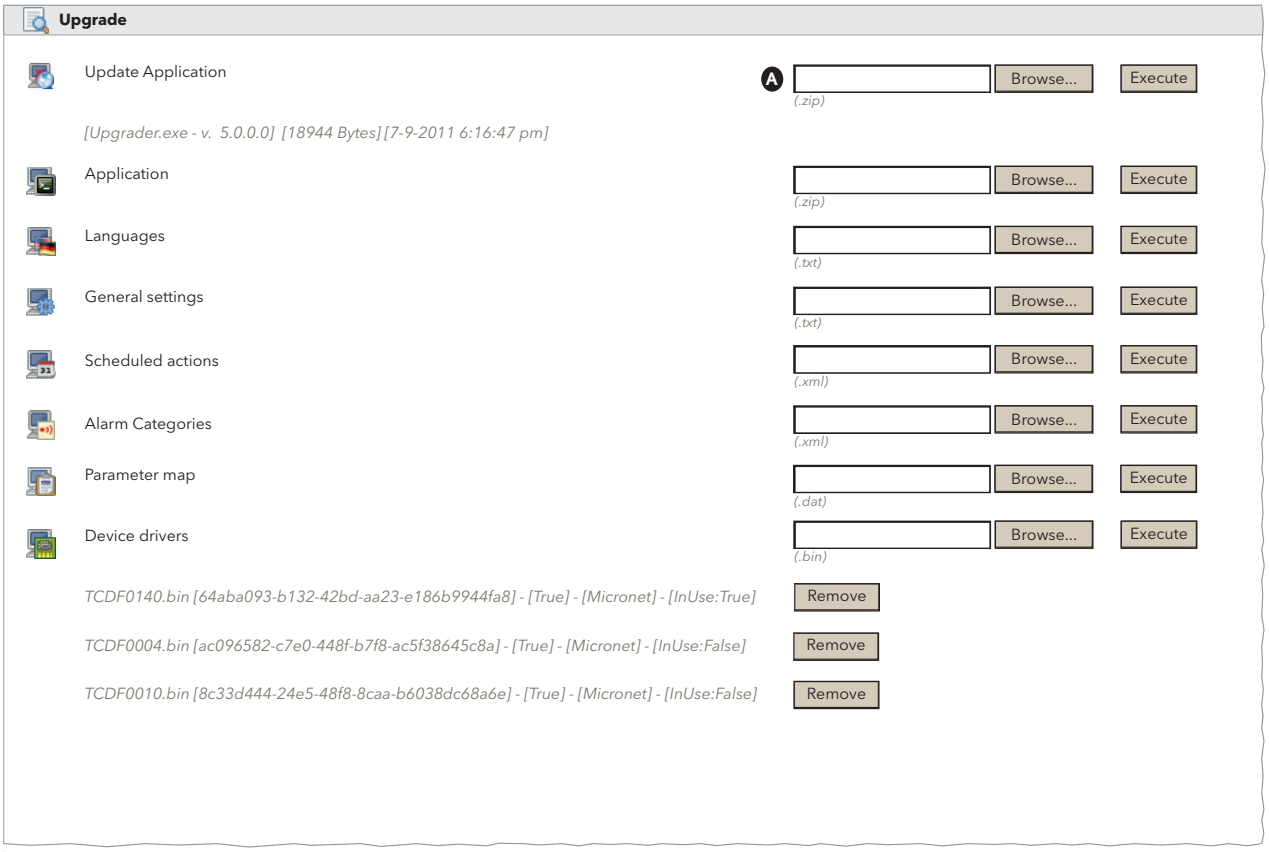
8. SYSTEM UPGRADE AND BACKUP METHODS

The various sections of the system can be updated by loading the relative update files.
To update the system, go to:

Computer → **Update**

To access this section, data logging must be suspended (see Data Logging section).

The following screen opens:



In this, the following updates can be made:

- **Update Application**(*) : This application manages the Televis**Go** update.
- **Application**(*) : Updates the Televis**Go application.**
- **Languages**(*) : Updates/uploads the Televis**Go** system glossaries.
- **General settings**: The procedure uses the file "Forced_setting.txt".
- **Scheduled actions**: To upload an XML file containing a series of scheduled activities planned using the OfflineConfigurator application (see the Off-line Configuration section).

  Since the upload overwrites the previous settings, before uploading the file, we recommend making a backup copy of current settings. (see section entitled Scheduled Actions - Advanced and Backup Settings and system restore)
- **Alarm Categories**: To upload an XML file containing network alarm configuration rules saved previously using the OfflineConfigurator application (see the Off-line Configuration section).

  Since the upload overwrites the previous settings, before uploading the file, we recommend making a backup copy of current settings. (see Backup and System Restore section)
- **Parameter map**: To upload a map to be used for periodical activities. (see chapter entitled "Scheduler").
- **Device driver**(*) : To upload a file for a new network device.

  IMPORTANT!: Since the installation of a new driver the existing driver, before uploading the file, we recommend making a backup copy of current settings. (see Backup and System Restore section).

(*) **IMPORTANT!**: The files to be loaded MUST be supplied by Eliwell.

The name, version and date along with other information regarding the current file/driver are provided below each heading in grey.
The Remove button can be used to remove the relative configuration file/driver.

In box **A** of the upgrade, the name of the file to be uploaded will appear.

To upload it, click **Browse** and scroll through the various folders (directories) to find the upgrade file and select it.
Now click **Run** to run the upgrade.

IMPORTANT: Make a careful note of the file extension which can be used for each kind of upgrade (written in the bottom left-hand corner under box **A**).

You will also be able to upgrade the license number (it may be necessary to request a new key if you wish to increase the maximum number of devices or purchase new operating functions).

To do this, go to the following menu:

Computer → **License Upgrade**

Enter the "Current code", then the "New code" (supplied by Eliwell) in the page that appears and click the "**Start upgrade**" button. If the entered code is wrong an error message will be created.

Once the **Upgrade** procedure has been completed, you must restart the device for the upgrades to become effective. To do this, go to the following menu:

Computer → **Restart**

then click **Restart**.

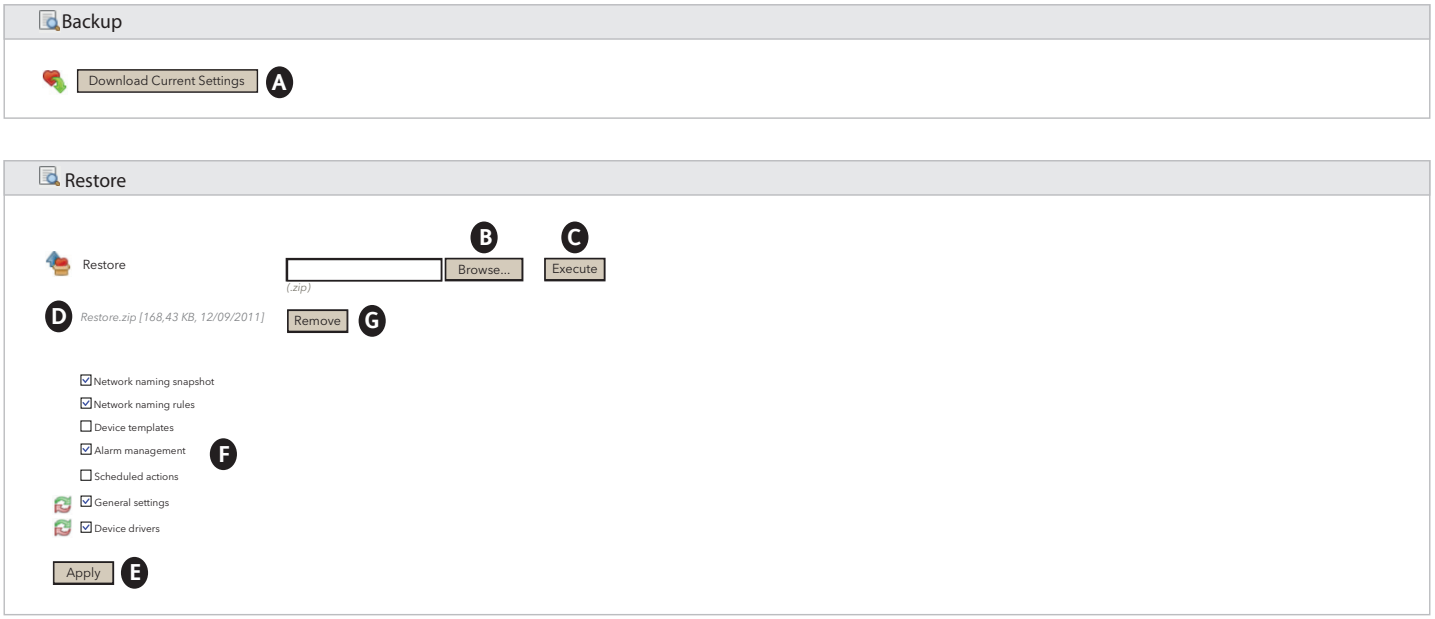
IMPORTANT!: TelevisGo will be disconnected as a result of this procedure. Re-enter the device address in the browser to reconnect.

8.1 SYSTEM BACKUP AND RESTORE

A back-up of the entire system can be done.
To do this, go to:

Computer → **Backup/Restore**

The following page will appear:



Two sub-sections are visible:

- **Backup**
  Click the **Download Current Settings** (**A**) button to create a .zip (compressed) file containing the following information:
  - Network naming
  - Last rule file applied
  - Device templates
  - Alarm/recipient/interval configuration
  - Scheduled activities
  - File GenericSettings.xml
  - Current Driver

  Users must save this file in line in accordance with their backup policy.
- **Restore**
  The Restore procedure is a mirror of the backup procedure and allows you to reset the system to the previously saved parameters.
  - Click **Browse** (**B**) to open a window to select a backup file to be restored.
  - Click **Execute** (**C**) to upload the selected file to Televis**Go**.
  - Once the file has uploaded, the name, size and date of the backup file (**D**) will be shown (although the system restore hasn't been done yet).
  - Click **Apply** (**E**) to restore the system with the contents of the uploaded file (**D**).
  - In the check boxes above button (**F**) you can select which information to restore.
  - The **Remove** (**G**) button can be used to cancel the file uploaded previously.

In fact, the restore function can be used to reapply backup functions to the same plant or to replicate the information in different plants.

IMPORTANT! The restore operation overwrites current settings applied to the plant and can't be reversed (users are responsible for doing a safety backup of their own before restoring).

9. SCHEDULED ACTIONS - ADVANCED SETTINGS

IMPORTANT!: Chapter intended for expert users.

The settings of scheduled activities defined are saved in an XML file. The syntax of this file is the same, in the filters, as described in the section entitled "**Scheduled Data Transmission**".

During the file upload, the syntax of the uploaded file is checked to ensure it is correct. If a second XML file is uploaded, it will overwrite the previous file, regardless of the name assigned to it.

Likewise, the resultant XML file can be downloaded by entering the following in the browser address bar:

http://<indirizzo del TelevisGo>/bin/ScheduledActions.xml

IMPORTANT: **This file is not shown in the browser (plain page); to view it, right click and select "Source" or "Origin" or "Html" depending on the type of browser used.**

The system also saves a backup copy of this file which can be downloaded from this address:

http://<indirizzo del TelevisGo>/bin/ScheduledActions.backup.xml

The Televis**Go** address is the one used for normal web interface use (e.g.: 192.168.50.50).

IMPORTANT: **Only one file can be used.**

A scheduled parameter writing activity can be linked to a complete or partial map file (.DAT). The .DAT file format is the same as the one obtained by saving a map from the WEB page for Televis**Go** parameter management:

Functions → **Parameters**

Map files are identified by file names.
The system allows up to 5 map files to be uploaded for this procedure.

The enclosed Televis**Go** CD suggests examples of the most common actions.
These examples can be generalized in accordance with your own requirements.

Logging for the purposes of displaying scheduled activities takes place on the file. This file can be viewed by entering the browser URL:

http://<indirizzo del TelevisGo>/bin/TraceScheduler_Index.txt
(restores the index of the file currently in use)

http://<indirizzo del TelevisGo>/bin/TraceScheduler_[x]**.txt** (with [x] from 0 to 4)
(restores the map file [x] (log) corresponding to the activities performed)

The system has a default memory of 5 MB for data-logging. It is managed in such a way that, once the available space (5 MB) has been filled, the system will begin to overwrite the oldest data.

IMPORTANT!: this section is intended for expert users.

10.1 FILE DOWNLOAD

You can access files which allow you to backup data, obtain information on system status and configuration, or run other diagnostics.

These files can be downloaded via a web browser; enter:

http://<indirizzo del TelevisGo>/bin/<nome del file>

The Televis**Go** address is the one used for normal web interface use.
(example: 192.168.50.50).

Users can upload files to Televis**Go** via FTP communication or Remote Access;
see the Disclaimer and PC configuration section.

The list of files that can be downloaded and their relative meanings is the following:

GenericSettings.xml	List of system settings (including, for example, data-logging status, IP configuration and plant name).
GenericSettings.backup.xml	Automatic backup copy of the file GenericSettings.xml.
Trace_Index.txt	File containing the index of the trace file currently used.
Trace_[x].txt	With [x] from **0 to 4.** File containing application traces
TraceScheduler_Index.txt	File containing the trace file index for scheduled actions currently used.
TraceScheduler_[x].txt	With [x] from **0 to 4.** File containing application traces for scheduled actions.
TracePersistence_Index.txt	File containing the trace file index for database actions currently used.
TracePersistence_[x].txt	With [x] from **0 to 4.** File containing application traces for database activities.
NetworkNamingSnapshot.xml	Snapshot of user-defined names (alias) of devices and resources.
AutomaticBackup NetworkNamingSnapshot.xml	Snapshot of user-defined names that the system generates automatically when the network configuration changes. It can be used as a backup copy of NetworkNamingSnapshot.xml.
EnergyResourcesFilter.xml	XML filter used to present energy resources available for the user to select. The default setting presents all Modbus device analogue resources.
RealTimeServiceFilter.xml	Filter used by the data transmission service (see the "**Scheduled Data Transmission" section**) to establish which resources to monitor from a distance.
RealTimeServiceFilter.backup.xml	Automatic backup copy of the file RealTimeServiceFilter.xml.
Invensys.Dictionaries/Dictionary. [xx-XX].txt	Dictionary file for the specified language where **[xx-XX]** can be: • **de-DE** (German) • **en-GB** (English) • **es-ES** (Spanish) • **fr-FR** (French) • **it-IT** (Italian)

To run diagnostics, the 5 trace files must be downloaded (**Trace_0.txt**, **Trace_1.txt**, **Trace_2.txt**, **Trace_3.txt**, **Trace_4.txt, and MP.txt**).

Files can also be downloaded via FTP or VNC (see the Disclaimer and PC Configuration section).

10.2 RESET ADMINISTRATOR PASSWORD

If you lose or forget the Administrator password, it can be accessed from the following web page:

http://<indirizzo del TelevisGo>/ResetAdminPassword.aspx

The Televis**Go** address is the one used for normal web interface use.
(example: 192.168.50.50).

This page will give you a code made up of letters and numbers (password reset code). Contact the technical help desk and give them the Televis**Go** generated code. The help desk will give you a code (password) to enter in the text box in this page.

When you click the **Reset Password** button, the Administrator password will return once again to "**0**".

11. REMOTE DATA DOWNLOAD PROTOCOL

Televis**Go** allows third party clients to extract data saved in their own files and run remote operations on the plant using the TCP/IP communication protocol described in the following document:

Data_Download_Protocol.doc (on CD, only available in English)

where all the details of commands, times and handshake modes are given.

Functions supported include:

- Retrieve general plant status information
- Retrieve real-time data
- Retrieve historical data
- Change time in Televis**Go**
- Send commands to devices
- Write parameters to devices

N.B.: To enable communication between Client and Televis**Go**, there must be physical connectivity - such as Ethernet - between the 2 systems.

12. FAQS

- **Function busy message:** to avoid blocking Televis**Go** functions, **always** use the logout button to exit the application. If you don't do this, the functions will remain busy until the WEB session times out (20 minutes), preventing them from being used by other users.
- **Naming controllers:** the pages used to select devices/resources for accessing various system functions (parameters, RVD, etc.) offer the option of applying filters.
  These filters apply to the "**Long Name**" of the device/resource in question.
  To simplify selection by applying filters, we recommend the application of mnemonic "naming" (easily recognizable).
  Sample naming is illustrated below:

    - Frozen foods cabinet **1**
    - Frozen foods cabinet **2**

    - Frozen foods cabinet **n**
    - Vegetable cabinet **1**
    - Vegetable cabinet **2**

    - Vegetable cabinet **m**
    - Positive temperature controller
    - Negative temperature controller

  This makes it easy to identify all devices within a group (e.g. frozen foods cabinets) simply by entering the string "**frozen**" in the filter; controllers can be identified using the string "**Controller**".
  The same concept can be applied to the naming of individual device resources / alarms.

- **Alarm detail: why is there an action when an alarm occurs, and not the action associated with the alarm reset?**
  This happens when a category or action connected to the same alarm management category is removed.
  The system is no longer able to perform the activity associated with resetting that alarm.
- **Why does the system carry out an action associated with an alarm category, even if the validity period has elapsed?**
  This happens if an alarm instance begins within a validity period.
  Management also continues during the alarm reset phase, even if this occurs outside the validity period.

- **Why are some strings sometimes missing when I update drivers?**
  This happens because updating drivers does not update dictionaries as well.
  To update dictionaries, go to the updates WEB page and update dictionaries (see "Update" section).

13.1 RESPONSIBILITY AND RESIDUAL RISKS

Eliwell Controls srl declines any liability for damage due to:

- Unspecified installation/use and, in particular, in contravention of the safety requirements of established legislation or specified in this document.
- Use on equipment which does not provide adequate protection against electrocution, water and dust in the actual installation conditions;
- Use on equipment in which dangerous components can be accessed without the use of specific tools;
- tampering with and/or modification of the product;
- Installation/use on equipment which does not comply with established legislation and standards.

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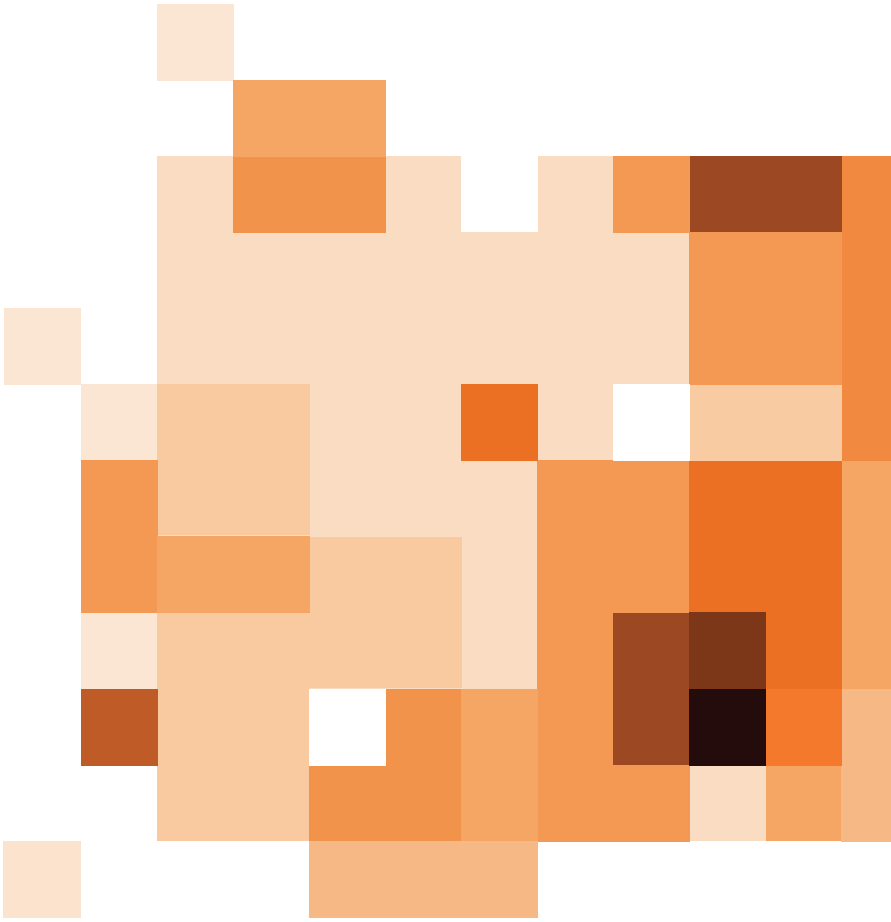

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