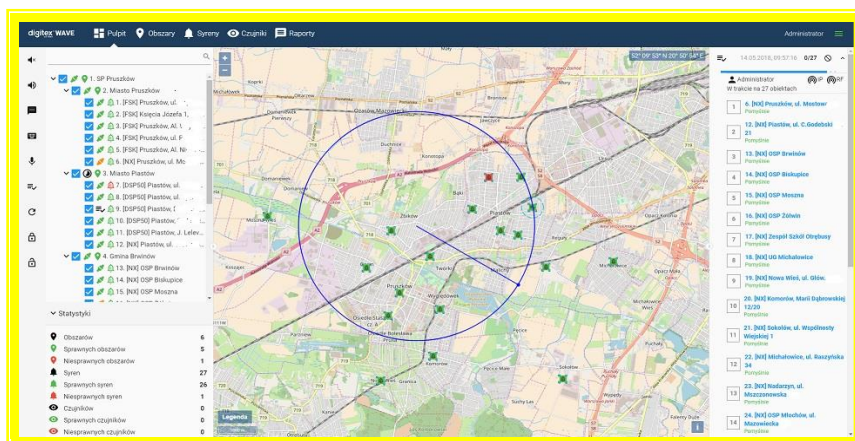




digitexCZK/IP WAVE web application

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Digitex CZK/IP public warning system general description

digitexCZK/IP is a client-server public warning system that allows control of individual system elements (e.g. alarm announcement by selected sirens, alarm stop, checking of current work status, parameters, etc.) from any client (access application) having IP connectivity with system server. This means that full control and monitoring of the system can take place from a single access application both from the level of the city (MCZK) or commune control center as well as from the level of the voivodship control center (WCZK). The transmission between the control centers takes place using the IP and radio link, and between the control panels and alarm points via radio link - in the case of digital sirens delivered - digital communication, and in the case of analog radio sirens, analog communication compatible with the currently used radio protocol.

The system is ready to use two independent transmission media between the control panel and alarm points simultaneously IP link and radio link (depends on sirens configuration).

Radio communication enables:

- fast and independent from the external infrastructure transmission to alarm points (switching on and stopping the alarm of the selected siren/sirens, monitoring the current state of the siren / sirens and parameters of its / their operation),
- Working in the VHF band with 12.5 kHz channel spacing in simplex or repeater mode,
- radio transmission encrypted in a way compatible with the currently used radio protocol,
- automatic system diagnostics at a preset time does not affect the operation and readiness of the system.

Digitex Wave dispatcher software

The digitex WAVE application is designed to support network (IP) and radio (RF) siren control systems and can be used at any level of management (voivodship, county, city or company). The basic function of the program is the public warning sirens management.

Additionally the digitex Wave enables cooperation with various monitoring devices, e.g. the level of contamination, pollution or water level. Switching on alarms and testing sirens is done by selecting the appropriate option available from both the map level, the quick access keys and the main menu. The built-in database, with the possibility of full editing by the system administrator, contains detailed information about all sirens. The digital map of a specific location fully reflects the geographical location and status of all system alarm points. Each event that took place in the system is saved to the database and system log. The application's operation is intuitive thanks to the menu system and windows that lead the user for all actions in the system.

Dictionary of terms:

- | | |
|---------------|---|
| - CZK/IP | - public warning system |
| - digitexWave | - a web-based application for the CZK/IP dispatcher and administrator |
| - InsDS | - database server of CZK/IP |
| - InsSS | - service server of CZK/IP |
| - InsAS | - audio server of CZK/IP |
| - DspIP | - system of notation of objects and system components of CZK/IP |
| - LAN | - LAN network 10Mb/s, 100Mb/s, 1Gb/s |
| - TCP | - network Protocol in LAN networks |

- RF/Radio - professional radio module 134 – 174 MHz / 400 – 512 MHz
- NEXEDGE - digital communication radio protocol
- FSK - digital communication protocol in analog radio networks

The CZK/IP system is built of many elements: control panels, servers, radio access points coderepeaters, sirens (depends on system configuration). For the purpose of identifying individual elements, a universal addressing format called Dsplp was developed. The sample address looks like this:

SO-1595#110

And contains:

- prefix of device in system SO – siren object
- separator “ – “
- a unique address generated by producer closely related to the area of the system installation (e.g. "1595" – New York city)
- permanent order separator: #
- the distinguishing number of the given object in the New York city system: 110

The prefix consists of letters and indicates the element type:

- SU - service server, the main element of the system,
- SA - audio server, the main element of the system,
- SD - data server, the main element of the system,
- WPD - remoted access point, the main element of the system
- SO - object siren, element of the system
- PD - access point, system component
- CZK - dispatcher's (user's) account, Dsplp format
- AREA - area, system element, Dsplp format
- SENSORDEV – sensor or detector, element of the system

The separator "-" is unchanged and separates the prefix from the territorial address.

The separator "#" is unchanging and separates the territorial address from the numeral marker.

A numeric tag specifies an individual item number of the same type as, for example, another object siren.

Hardware requirements

The WAVE digitex software is a web application run in a web browser. It is recommended to use the Google Chrome browser.

For optimal work with the application, the computer should meet the minimum requirements:

- processor: Pentium i3 class
- RAM memory (depending on the operating system): min. 4gb
- monitor resolution: FullHD
- free disk space: min. 20 GB

Sirens database

The integrated database contains detailed information about each siren installed in the system, including:

- identification number, description, location, alarm system
- model and type of siren, type of switching device
- number of the province, city
- a photo that facilitates the location or identification of siren component modules
- affiliation to groups and sectors
- details of the person responsible for installing and maintaining the siren
- additional notes

The database can be updated by the user with system administrator permissions.

Database of the last tests results

The application has a database with the results of the latest tests, which allows you to restore the state of sirens after re-logging into the application. Similarly, it will happen when working on several digitexWAVE accounts. The last logged in user inherits the current state of the sirens and there is no need to perform tests to learn about the status of object sirens.

Symbols/Icons

The objects are presented on the map by means of icons. Icons have different shapes and different colors depending on the state of the object. The icons on the final appearance are influenced by:

- current operation mode (alarm playback, message playback, tests)
- connection status with InsSS via the network (combined or missing connection)
- radio communication status (radio communication or lack thereof)
- condition of the object (battery voltage, condition of amplifiers, state of the alarm control panel)

ICONS - shapes

In order to identify the type of object on the map, a geometric model was adopted. The objects are divided into two groups. Alarm points are presented by the square while control panels and manipulators are presented by a regular octagon.



electronic siren

control panel or local manipulator



sensors (levels of contamination, limimeters, weather stations, etc)

ICONS - colors

In order to quickly assess the overall state of sirens, the system displays them in various colors. We distinguish five states of sirens:



grey No data from siren



green Correct state of siren



pale Low alarm level



orange High alarm level



red Critical alarm level

For specific object parameters (e.g. battery voltage level, state of audio amplifiers, state of the alarm control panel), you can independently configure the levels for which irregularities in its operation will be

recognized. For example, for the battery voltage level, it can be assumed that the incorrect operation at the level:

- low - corresponds to 12.5V - 13V
- high - corresponds to a voltage of 11.5V - 12.5V
- critical - corresponds to a voltage below 11.5V

ICONS – state of communication

Another parameter determining the state of the object and displayed on the map is the connection status of the given object with the system. We distinguish four connection states:



no data about the connection status with the object; connection status - communication ok;
connection status - no communication;



connection status - communication ok; connection status - no communication;



the object is in the service / during installation / during removal from the system / etc.

Sirens works condition (in the object tree)

Electronic siren can be in one of five states. Normal operation status, while waiting for commands, is not presented with the icon. Each one is different from the "normal" state:



the object is currently being tested;



the object is in a playback state;

the object is in a playback state (live voice);

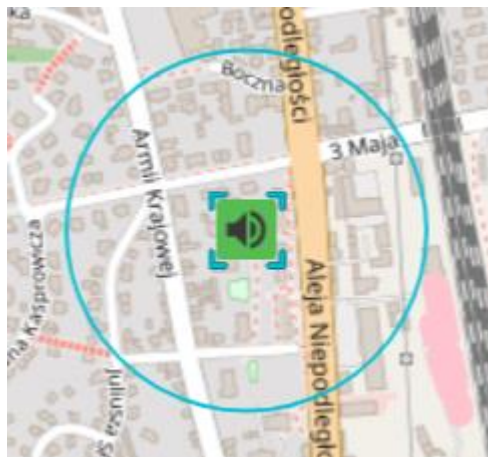


at least one object is in one of the above mentioned states.

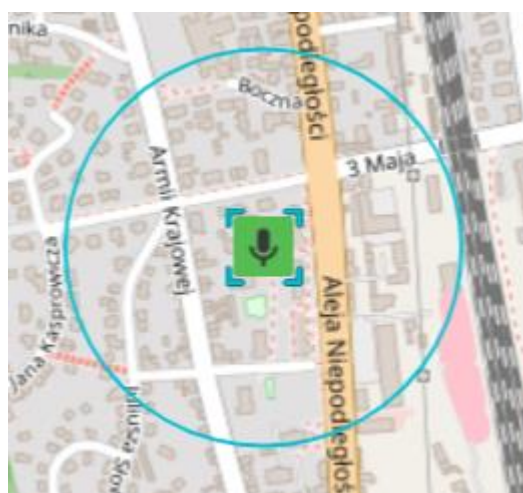
Operation status of alarm siren

Depending on the action being performed, the animation of the displayed circles surrounding the sirens changes.

Blue color of the circle - play the alarm in "loud" mode. The radius determines the theoretical range of audibility resulting from the power of the siren.

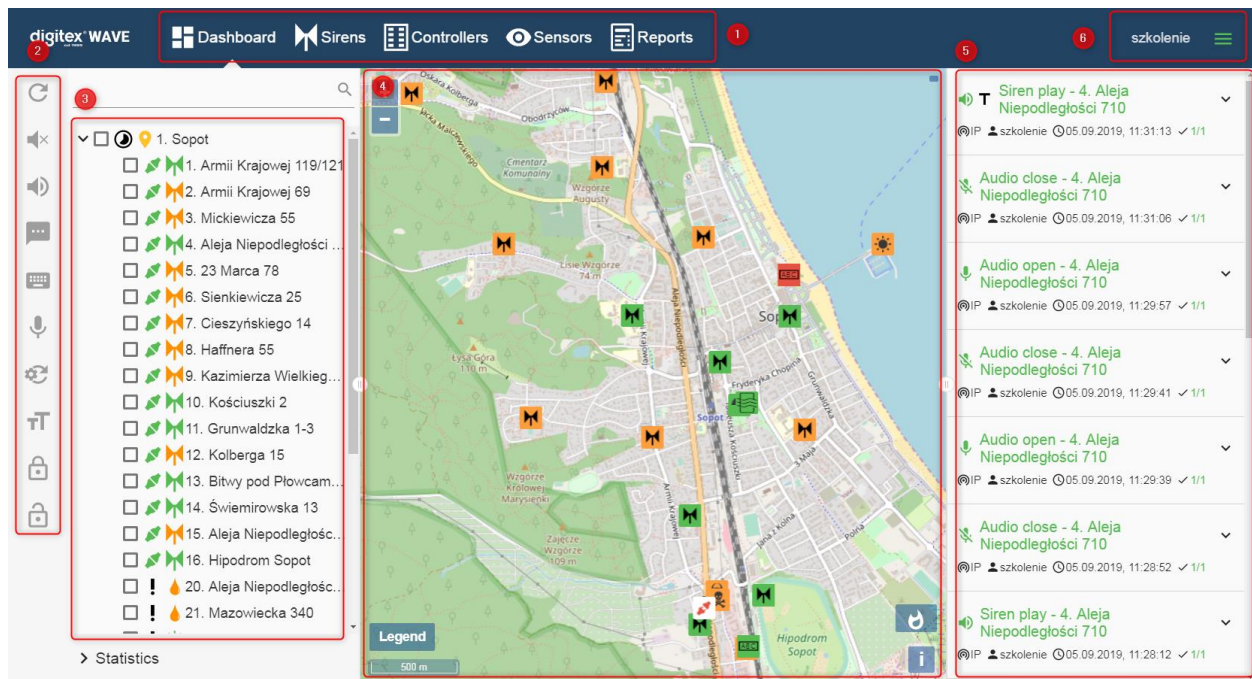


Blue color of the circle - forwarding the message live in "loud" mode. The radius determines the theoretical range of audibility resulting from the power of the sire.



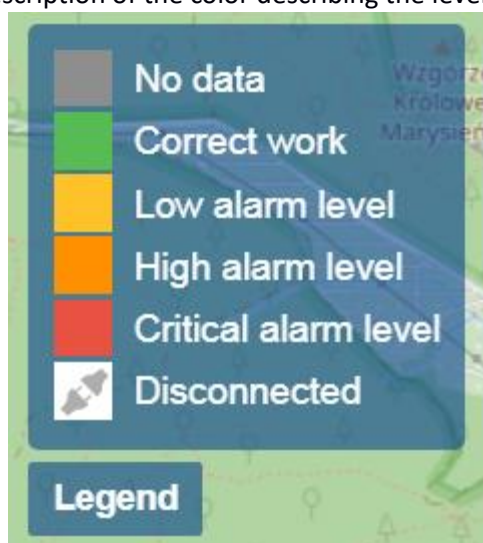
GUI of application

Main window/map



The main application window has been divided into several areas:

- 1 Selection of the presentation set in the main window, described in chapter 7.1
- 2 A bar with quick access keys, described in chapter 7.2
- 3 The tree of objects in the system - the structure view of all objects in the system, described in chapter 7.3
 - statistics panel, described in chapter 7.4
 - system legend, with a description of the color describing the level of alarm status



- 4 Map with location of objects - illustrates the location of system objects, theoretical coverage (for alarm sirens), condition, work status, described in chapter 8.2.1
- 5 The current system log



Information about the user being logged, as well with displaying messages

Main menu



Map

The map illustrates the location and status of the system objects. Depending on the selected scale on the map (the scale is displayed in the lower left corner of the application ⁵), objects are presented that are configured to be visible for the selected magnification. The selection of the scale is made using the +/- buttons in the upper left corner of the map or by means of the mouse wheel. From the map level, specific functions are available via the right-click context menu. Objects (marked) on which a particular action is to be performed are marked on the map with a colored frame around the icon presenting the state of the given object.

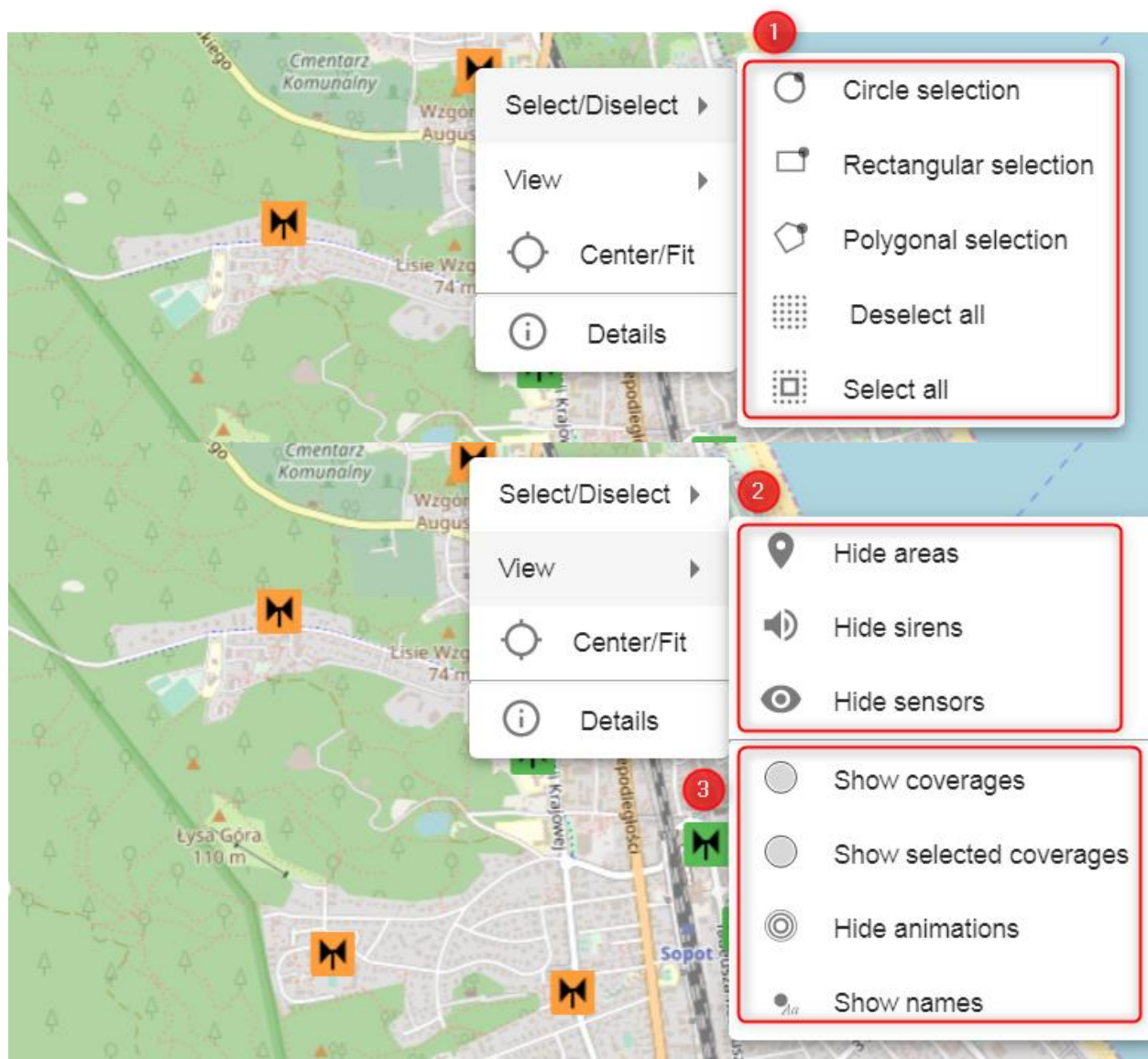


Fig. A fragment of the map with system objects.

Selecting objects on the map is done by individual pointing or marking the area of interest with a circle or a rectangle.

The context menu allows us to configure both the appearance, navigation and appearance of the map when playing alarms:

1 we determine what is to happen after clicking the left mouse button on the map:

Moving the map - enabling the mode in which after clicking and holding the left mouse button you can move the map location,

Circular selection - in this mode you can select objects in areas designated by the outline of a circle,

Rectangular selection - in this mode, you can select objects in areas delimited by the rectangle,

Polygon selection - in this mode you can select objects in areas designated by the outline of a polygon,

Deselect all - clicking on this field deletes the objects on the map,

Select all - after clicking on this field, all objects on the map are selected,

2 - in the case of more accurate observation of selected types of objects, we can disable the display of other types of objects,



Hide areas - the area icon is displayed in smaller magnifications (its display threshold is configurable), after selecting this option, the area icons will not be displayed, we restore the display by clicking on the



Show areas button that appears in the Hide areas button.

Hide sirens - the siren icon is displayed in larger magnifications (its display threshold is configurable), sensors are displayed in the same zoom. If we want to clear the screen from the siren icons, after selecting this option, the sirens icons will not be displayed, we restore the display by clicking on the - Hide sirens - the siren icon is displayed in larger magnifications (its display threshold is configurable), sensors are displayed in the same zoom. If we want to clear the screen from the siren icons, after selecting this option, the sirens icons will not be displayed, we restore the display by clicking on the Show siren button that appears in the place of the Hide siren buttonbutton that appears in the place of

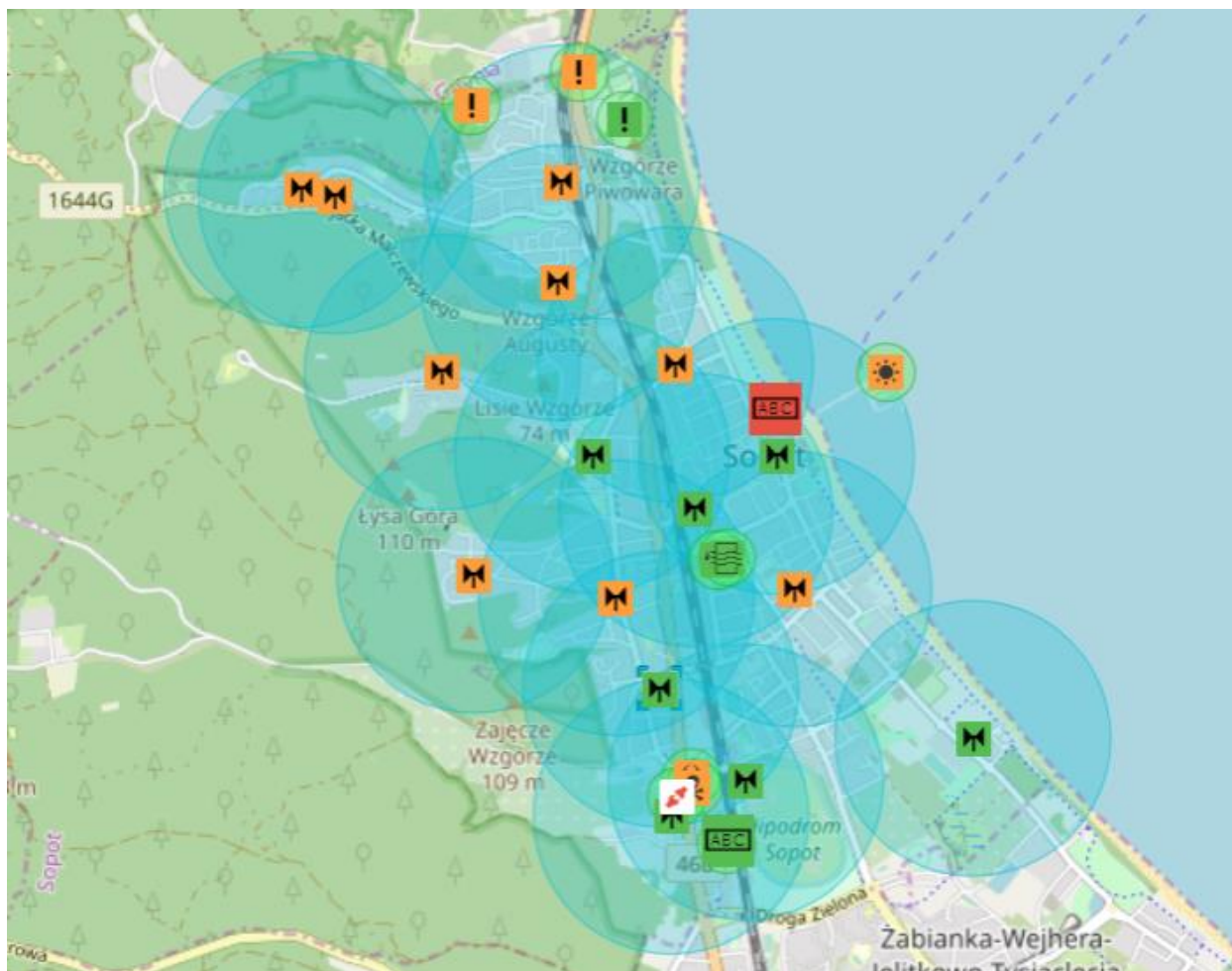


the **Hide siren** button

Hide sensors - the sensor icon is displayed in larger magnifications (its display threshold is configurable), in the same zoom sirens are displayed. If we want to clear the screen from the sensor icons, after selecting this option, the icons will not be displayed, we restore the display by clicking on the **Show sensors** button that appears in the place of the Hide sensors button.

- determination of the method of animation and determination of the theoretical range of audibility of a given siren during alarming,

Show ranges - after selecting this field, the theoretical ranges of audibility of the sirens will be displayed on the map



Show selected coverages - after selecting this field, the theoretical ranges of audibility of the selected



sirens will be displayed on the map

Hide animations - after checking this box, the effect of the animation (circles expanding during the action on the siren) will be turned off

Show names - after checking this box, the information about the location of the object will be displayed next to the siren icon



Quick access keys on object

In the top bar, above the map there is a menu with access keys that allow you to directly call the action on the selected siren or on the selected group of sirens.

The buttons have "speech bubbles" with a description, which are displayed after indication on the button.

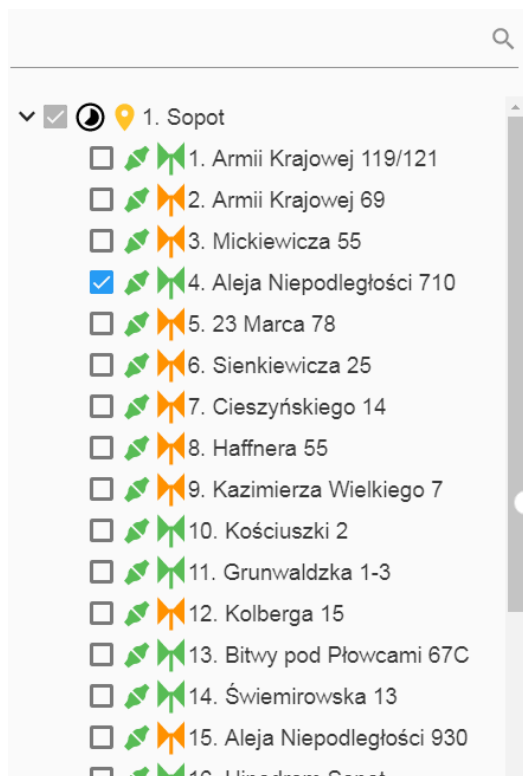


Description of button's functionalities::

-  Stop (interrupt) activities in selected sirens. If the siren is in the process of playing then by clicking this button we will go to the stop menu of the currently performed action. (description in 8.2.1)
-  Alarm announcement in selected sirens. After selecting the objects to perform the action by clicking on this icon, we will go to the menu for starting the defined alarm from the current alarms (description in 8.2.2)
-  Activation of one of the standard/recorded messages. After selecting the objects to perform the action by clicking on this icon, we will go to the menu for launching the defined message from the set of messages prepared or configured by the system administrator (description in 8.2.3)
-  Starting playback of the message synthesized by the speech synthesizer (Text –to speech – option). After selecting the objects to perform the action by clicking on this icon, we will go to the menu in which we will be able to enter the message in the form of text, which after the synthesis will be broadcast by the sirens (description in 8.2.4)
-  Starting playback of the message in "live" mode. After selecting the objects to perform the action by clicking on this icon, we will go to the menu in which we will be able to broadcast the message via the microphone installed on control panel (description in 8.2.5)
-  The order to perform tests on selected objects. After selecting the objects to perform the action by clicking on this icon, we will go to the menu in which we will be able to run the procedure of testing the siren (description in 8.2.6)
-  Manual refresh status. After selecting the objects to perform the action by clicking on this icon, we will go to the menu in which we will be able to start the procedure of retrieving the current status of the alarm point (description in 8.2.7)
-  Activating the TRAINING mode. Clicking on this icon will switch the system operation mode into silent alarm mode for training purposes. Sirens in this mode perform all orders without loudly turning on the amplifiers.

Using the above buttons is possible for any selected group of objects. The selection can be made in the object manager and directly on the map.

Objects manager



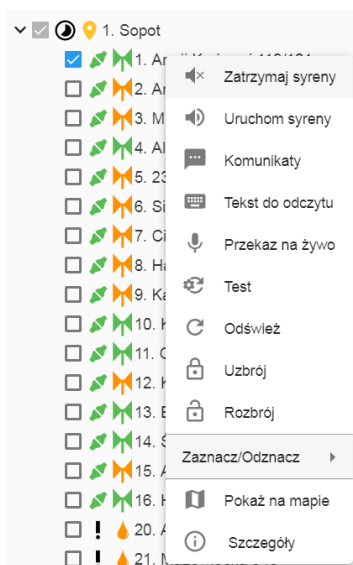
The object manager, located on the left side of the map, shows the structure of the system and allows you to select objects on which a specific function is to be performed. In the upper part of the object manager, a specific branch of the structure is selected. At the bottom of the object manager, a detailed list of subordinates of the selected branch is displayed. Depending on how the CZK / IP system is configured, a branch or area can be an object manipulator or subordinate city in the case of voivodship systems.

We select the element to perform the action by checking the box ☐ located next to the given object.

The icon appears next to the selected objects ☒ an additional frame is displayed on the list of objects and on the map around the selected object.



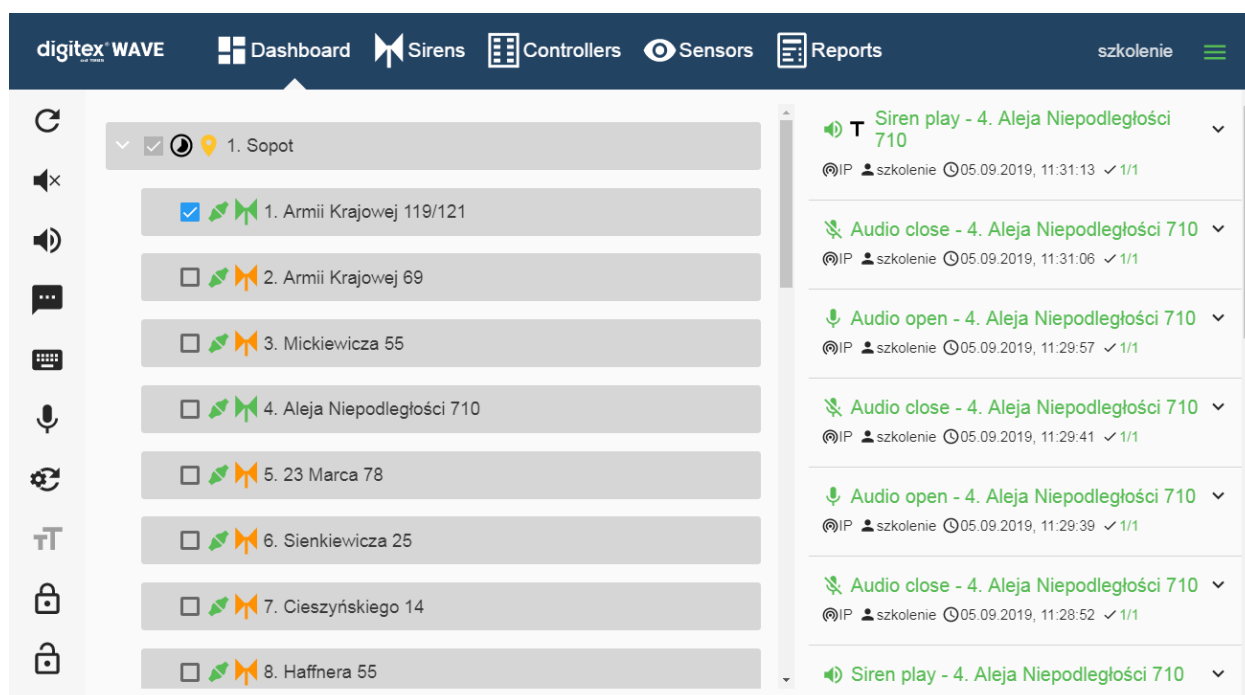
When you right-click on a given object, a context window will appear with the functions available for the object.



In addition to the features described in the previous item, we have additional functionalities here:

-  Activate (anti-sabotage system) - in the case of alarm sirens by clicking on this icon we activate the alarm system, which after unauthorized opening of the siren door will trigger an audible alarm in the siren and will send information about siren to the system.
-  Desactivate - in the case of alarm sirens, clicking on the icon deactivates the alarm system. This will allow the siren's cabinet door to be opened without generating siren sabotage information.
-  After clicking on the icon, the application map will be moved and centralized to the selected siren.

Digitex Wave application can be launched on DPS-4000 manipulator equipped with 7' touchable screen. In this case software (Dashboard) automatically starts as an "Object manager" without map.



All functionalities of digitex Wave launched on DPS-4000 manipulator is the same as in case of using PC workstation with standard monitor. To simplify sirens management, the user can proceed all actions on sirens using "Object manager" without map. If the map is configured, the user can also use the map button located on top menu. In this case we recommend using a stylus designed for capacitive screens to make usage of software on 7' more comfortable.

Statistics

The statistic panel is a summary of the state of the objects within a specific branch of the system structure. The selection of a given branch structure is made in the object manager by clicking the left mouse button on the object tree.

▼ Statistics		
	Areas	7
	Working areas	7
	Malfunctioned areas	0
	Sirens	29
	Working sirens	29
	Malfunctioned sirens	0
	Sensors	4
	Working sensors	4
	Malfunctioned sensors	0

The statistics contain (in the framework of a specific branch of the system structure):

- total number of areas
- number of areas showing incorrect operation (disconnection from the system or alarm condition in the case of keypads equipped with this function),
- total number of sirens in the system,
- number of sirens that show incorrect operation (damaged amplifiers, sabotage, problem with batteries, lack of main power supply or exceeding safe temperature),
- ! communication errors - no communication with objects,
- number of proper functional devices,
- number of sirens that are currently in operation (during alarm playback)
- number of sirens, about which status is not available,
- number of sirens that are on the site (the system does not report the lack of connection for sirens set in the SERVICE mode)

Current system log/status

We distinguish three types of events in the system:

ACTIONS - called by the operator, the log contains information about the type of action, the time of calling, information about the person ordering the given action and the status of the order's execution.

EVENTS - recording of events occurring in the system's failure (logging in to the dispatcher, recording of unsuccessful tests of objects, connection of local accessories).

ALARMS - recording of critical events in the system, such as loss of connection to the siren, all siren failures). In the case of the ALARMS tab it is possible to confirm the existing "failure" by the system dispatcher

The screenshot displays a system log interface with the following elements:

- Refresh siren status** (green refresh icon, dropdown arrow):
 - IP: Sysroot, Time: 06.09.2018, 10:45:39, Status: 1/1
 - IP: Sysroot, Time: 06.09.2018, 10:26:45, Status: 24/24
- Siren play** (green speaker icon, dropdown arrow):
 - IP: Sysroot, Time: 06.09.2018, 10:26:37, Status: 15/15
- Siren stop** (green speaker icon with 'x', dropdown arrow):
 - IP: Sysroot, Time: 06.09.2018, 10:26:15, Status: 15/15
- Successful on 15 from 15 objects** (green text, printer icon, refresh icon)
- Object List:**
 1. Armii Krajowej 119/121 Successful
 2. Armii Krajowej 69 Successful
 3. Mickiewicza 55 Successful
 4. Aleja Niepodległości 710 Successful
 5. 23 Marca 78 Successful
 6. Sienkiewicza 25 Successful
 7. Cieszyńskiego 14 Successful

Application description

The application can be operated by people with individual login and password enabling logging into the system.

The user with login data also receives an individual PIN number, which is required at the time of logging in and when attempting to invoke actions on system objects.

The PIN is an additional safeguard against unauthorized access if you leave the dispatcher station without unlogging.

The digitexWAVE application is a "web" program, i.e. works with the use of an internet browser. The WWW server is located under the IP address where the CZK / IP environment is installed. By default, the page is displayed on port 9980.

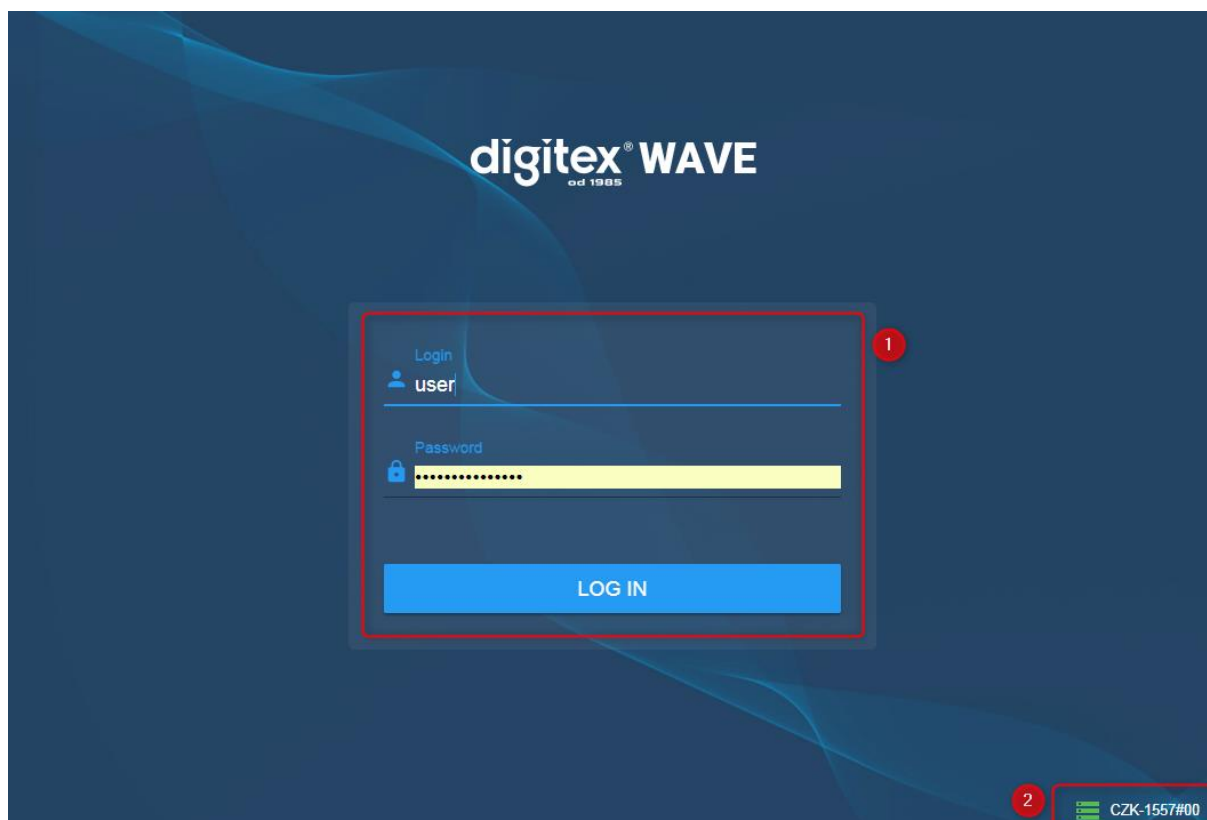
The website address should have a record in the form e.g.:

<http://192.168.0.1:9980>

where „192.168.0.1” is a server’s IP address.

Login

After starting the program, the login window appears, in which you must enter the user name and password. It should be remembered that the password is sensitive to uppercase and lowercase letters contained in it. The username and password are provided by the system administrator.



1



After proper authorization, the data required to operate the dispatcher's station will be downloaded. Then the user will be prompted to enter the PIN assigned to his account.

2

Connection status with the CZK/IP server. In the case of proper operation and connection to the system, the icon in green is displayed. In the event of server malfunction or overloading, the icon color will change to red - it is not possible to log into the system.

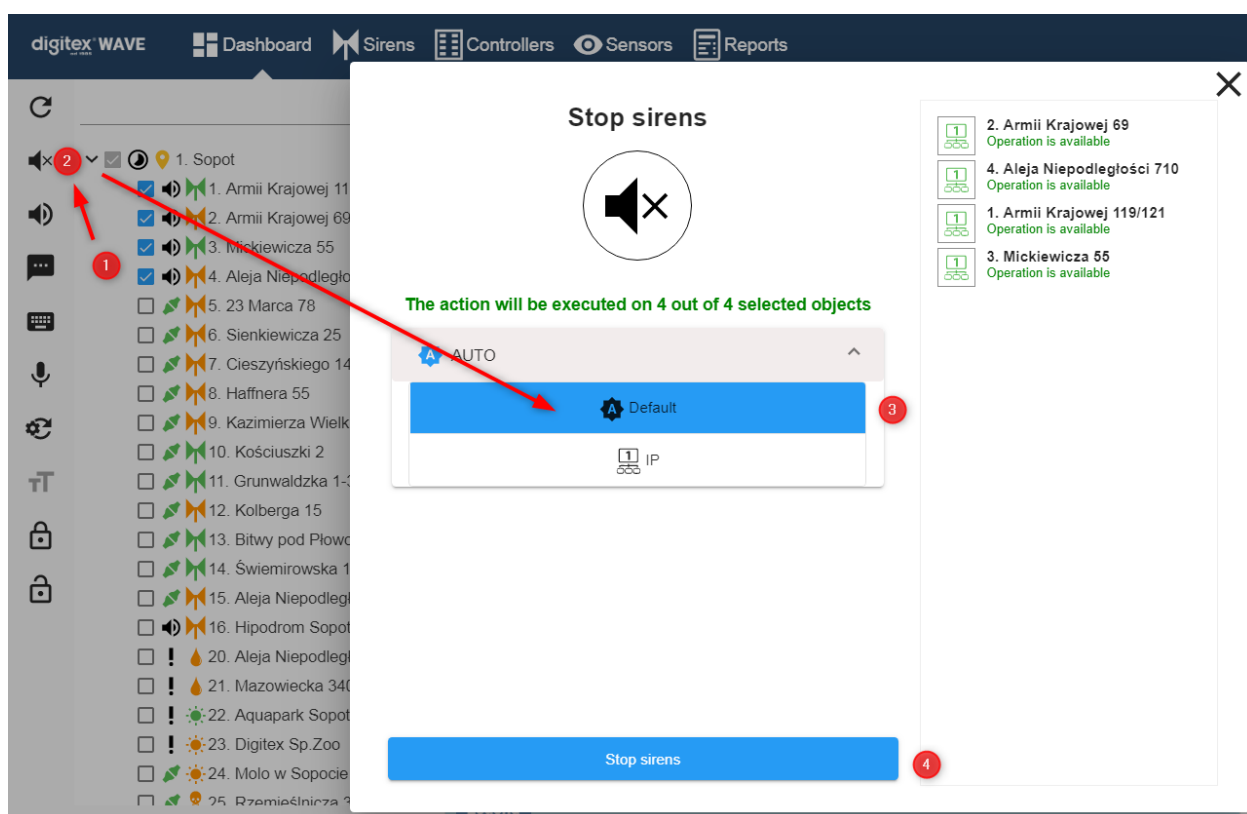
The level of user rights depends on the configuration made by the system administrator and includes both the method of access to system objects and activities that can be performed on these objects. For example, one user can access objects "o1", "o2" and perform functions "f1", "f2" on them, and the other user can only access object "o2" and perform the function "f2" on it. After correct identification of the user, the system configuration for the user is loaded and the main application window appears.

Operation of system objects

Performing actions on selected system objects is possible both from the main application menu, the bar with the quick access keys and the context menu called by the right mouse button.

The context menu is available both from the level of the object manager and the map with the location of the objects

Performing activities on objects may involve the need to accept the willingness to do this twice by providing PIN codes (e.g. activating alarms in sirens). It is an option that eliminates the accidental triggering of an alarm.



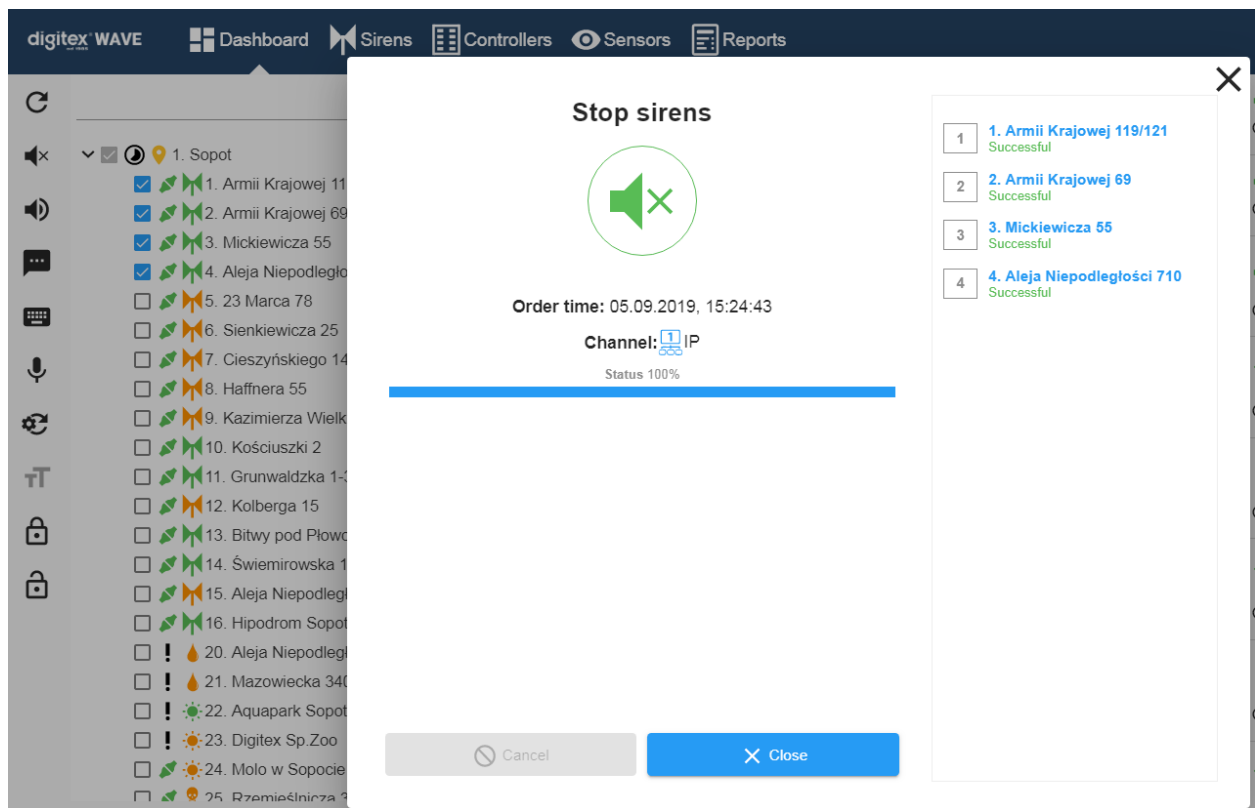
Stopping the alarms

After selecting objects ¹, which are able to play it is possible to interrupt this action immediately without waiting for the declared alarm decay time.

After indication of STOP SIRENS ² we go to the action menu.

We select the access channel for the selected sirens. It is recommended to choose the default channel - the system will take care of choosing the best available "route" to the devices. In the case of, for example, the test of individual access channels, we select the channel to which we want to carry out the given action. The IP channel will perform an IP or RADIO connection to use the radio connection.

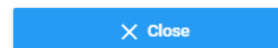
After clicking on **Stop sirens** the system will start the procedure of stopping the action on selected sirens and the application will switch to the order execution STATUS window.



In the status window we receive information about the order carried out:

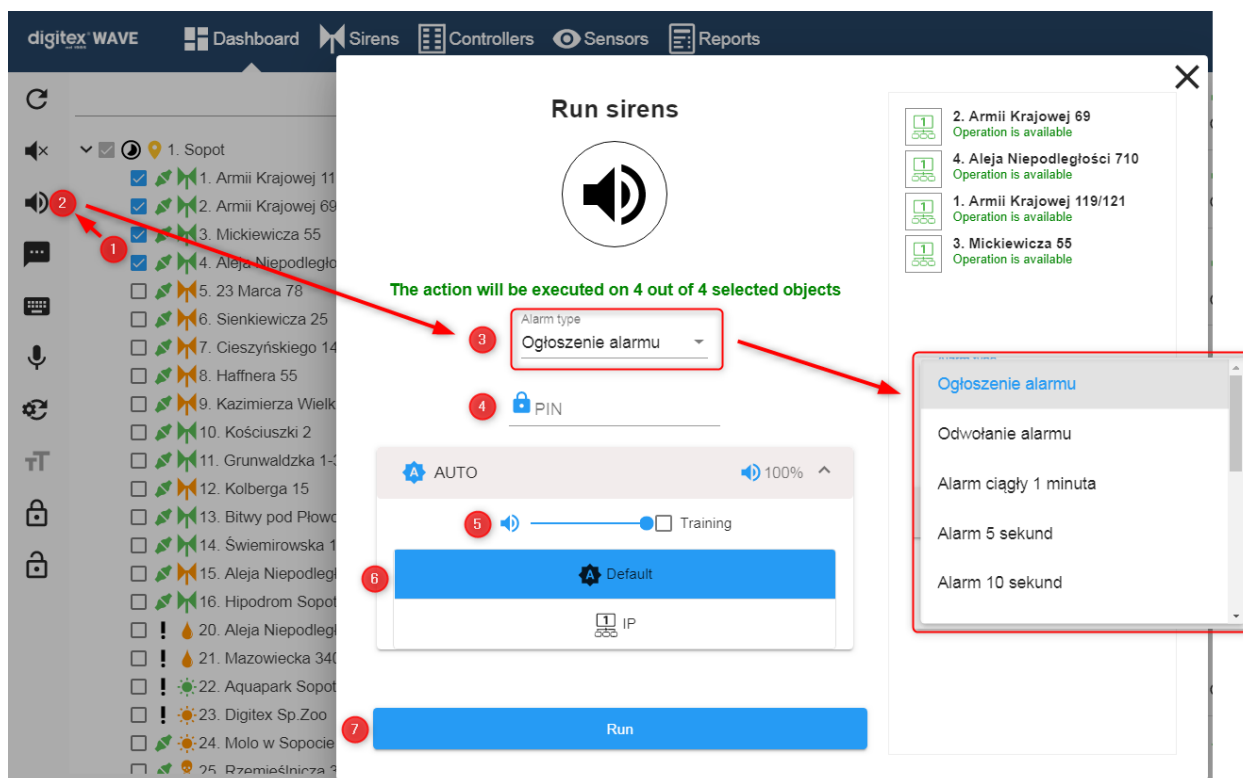
- time of order execution
- type of action
- selected channel
- order execution status - in the case of success, the window has a green background, in the case of red failure.

After completing the activities, we close the window with the button:



Alarm activation

After selecting objects ¹, which we want to run to play the alarm, click the ALARM button in the menu or select the siren from the context menu ² - we go to the action menu.



In the next step, we choose the type of alarm **3**

Main alarms defined:

Alarm announcement – defined main alarm

Alarm cancellation – defined alarm cancellation

Continuous alarm 1 minute - "occasional" alarm - 1-minute continuous alarm most often used to celebrate state anniversaries or during national trainings etc.

Other types of alarms are configured in the system, which can be used, for example, for a loud siren test (alarm 5 seconds).

After selecting the type of alarm, we must enter the PIN code **4**

It is possible to set the volume **5** the alarm being played back and selecting the **6** transmission channel with siren.

It is recommended to select the AUTO channel - the system will take care of choosing the best available "route" to the devices. In the case of, for example, the test of individual access channels, we select the channel we want to conduct the given action. INTERNET will perform the connection over the IP or RADIO link in order to use the radio connection.



After completing the configuration fields, click RUN..

In the status window we receive information about the order carried out:

- time of order execution
- type of action

- selected channel

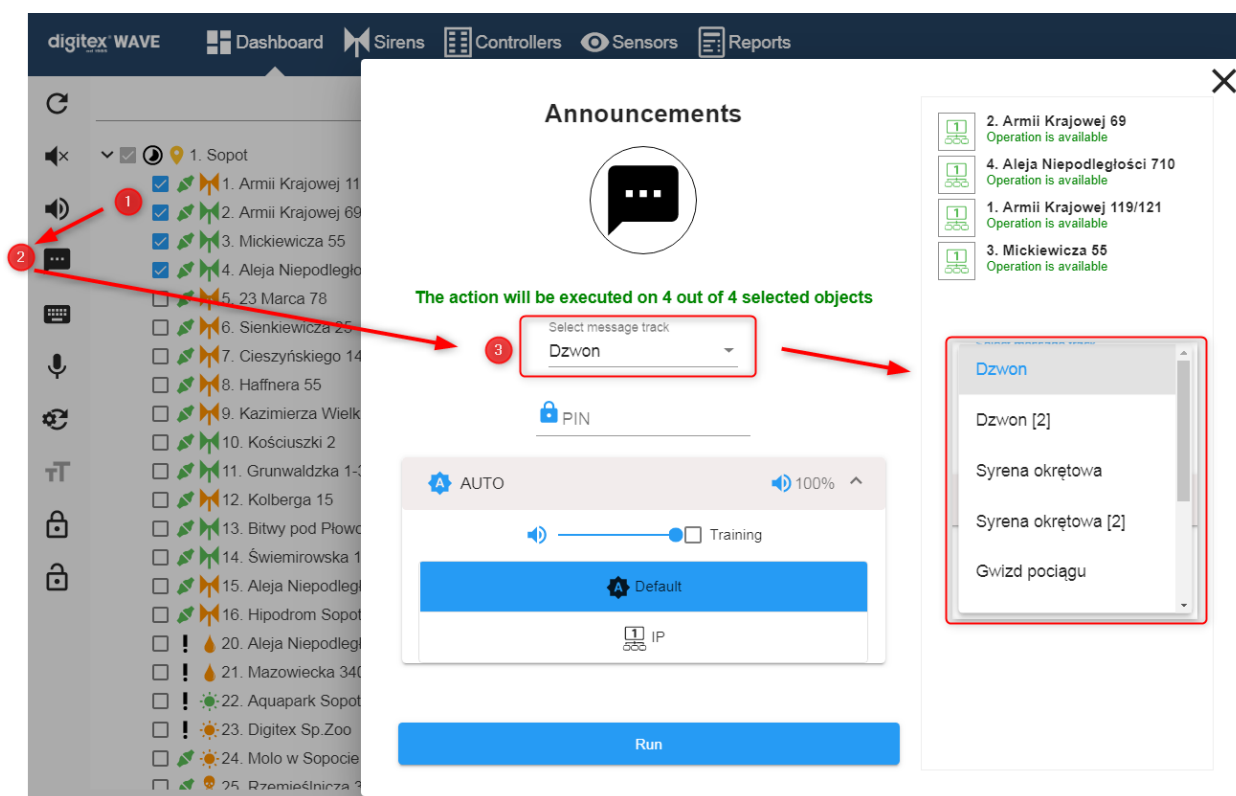
- order execution status - in the case of success, the window has a green background, in the case of red failure.

After completing the activities, we close the window with the button



Recorded voice messages.

After selecting objects ¹, which we want to run to play a defined message, click the MESSAGE button in the menu or select the siren from the context menu ² - we go to the action menu.



In the next step, select the message ³

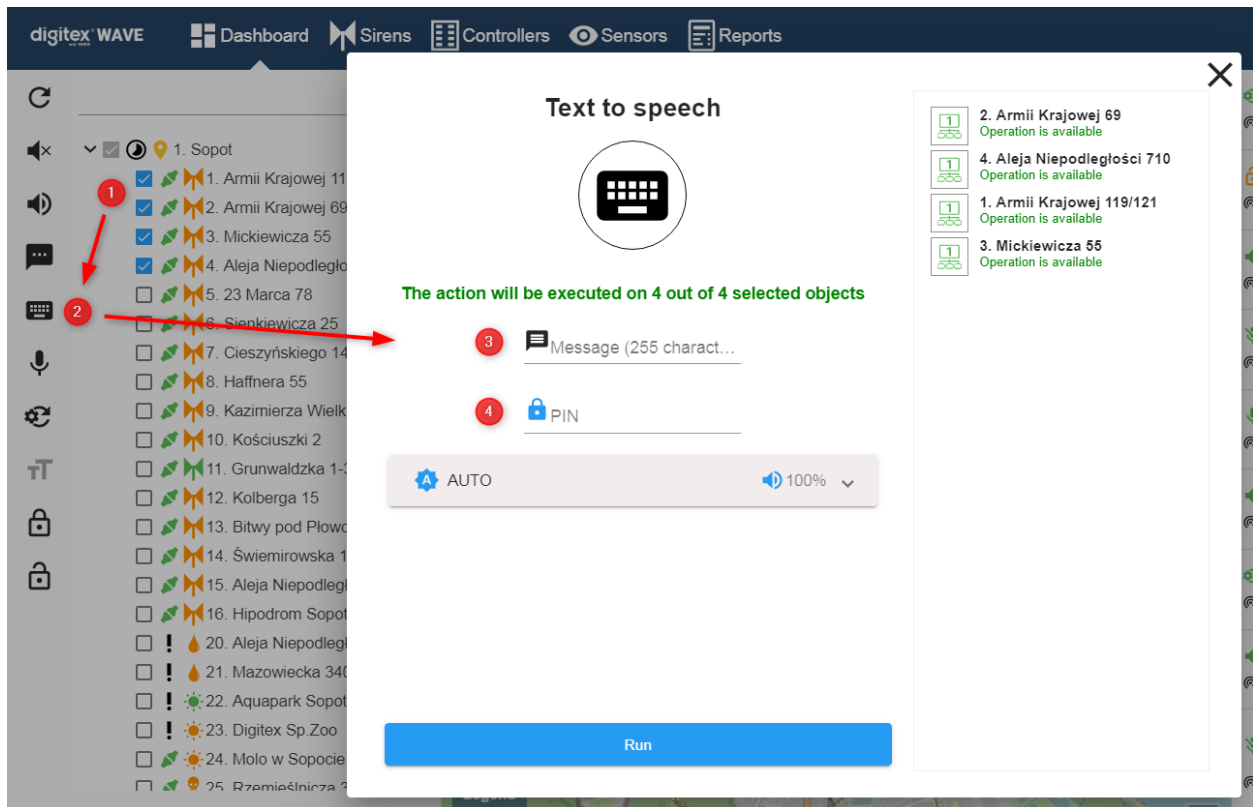
There are several recordings on the system in the siren. They can be used to test the system without sounding typical alarms. It is also possible to run alarms recorded by the system administrator.

The procedure is the same as for alarm operation (point 8.2.3).

Performing the action of starting a voice message using a speech synthesizer (option).

After selecting objects ¹, which we want to start to play the synthesized message, click on the button.

Speech SYNTHESIZER in the menu or select the siren from the context menu ² - we go to action menu.



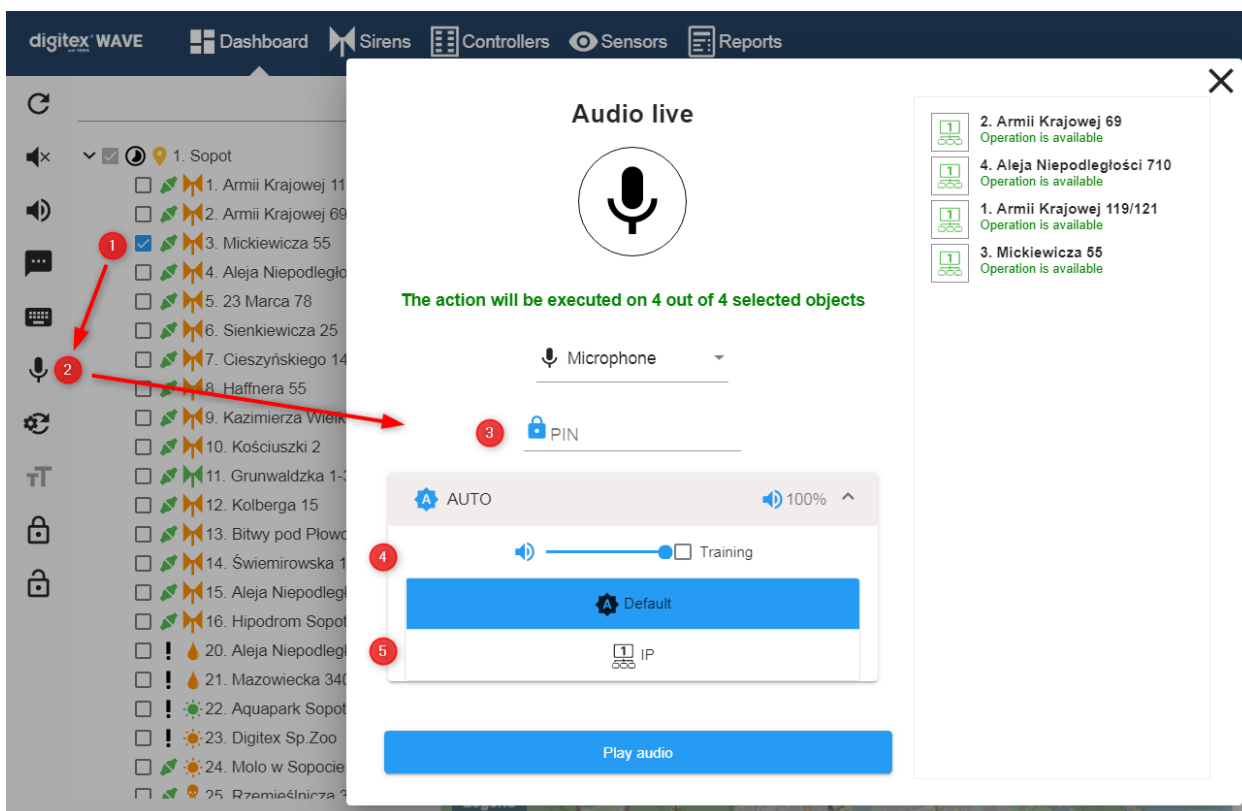
In the next step, enter the message to be synthesized to the voice message ³. The maximum length of a message is 255 characters.

The procedure is the same as for alarm operation (point 7.2.2).

Live voice message

In dispatcher positions equipped with a microphone it is possible to deliver a voice message in "live" mode via this microphone.

After selecting objects ¹, which we want to start to play in "live" mode, click the MICROPHONE button in the menu or select the siren from the context menu ² -we go to the action menu.



To call an action, we must enter the PIN code assigned to the logged in user. ³

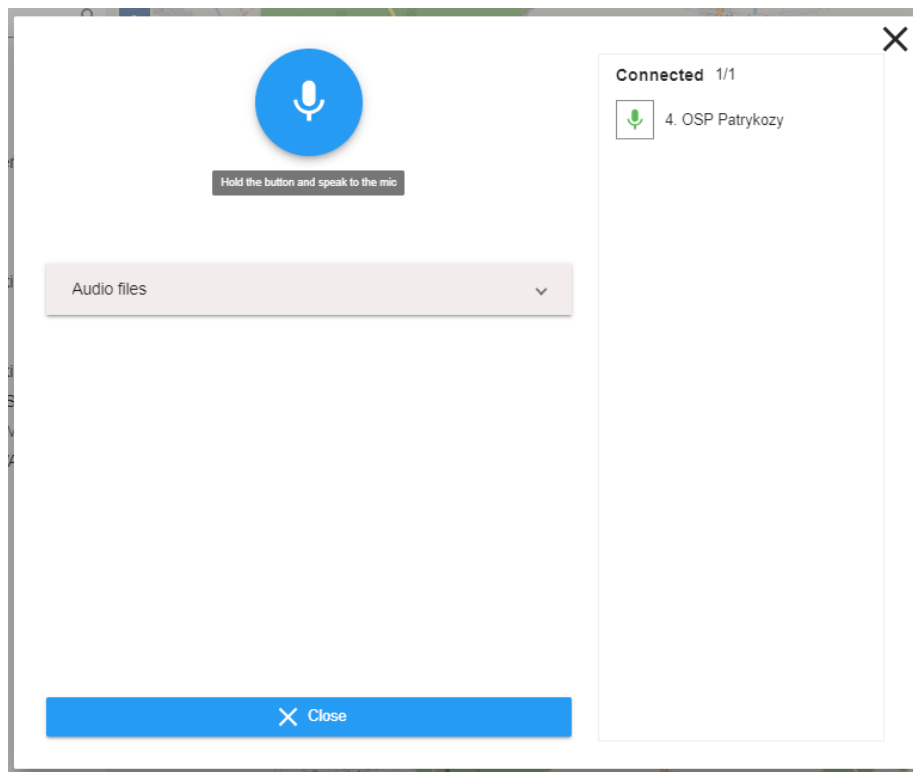
It is possible to set the volume played and select the transmission channel with an alarm point. ⁴

It is recommended to choose the **default** channel - the system will take care of choosing the best available "route" to the devices. In the case of, for example, test of individual access channels, we select the channel we want to conduct the given action. INTERNET will perform the connection over the IP or RADIO connection in order to use the radio connection. ⁵

After completing the configuration fields, click SET THE AUDIO CONNECTION ⁶

After a properly prepared connection, a window with a PTT button will be activated to activate the "live" connection to the siren.

The announcement is made by holding down the microphone icon.

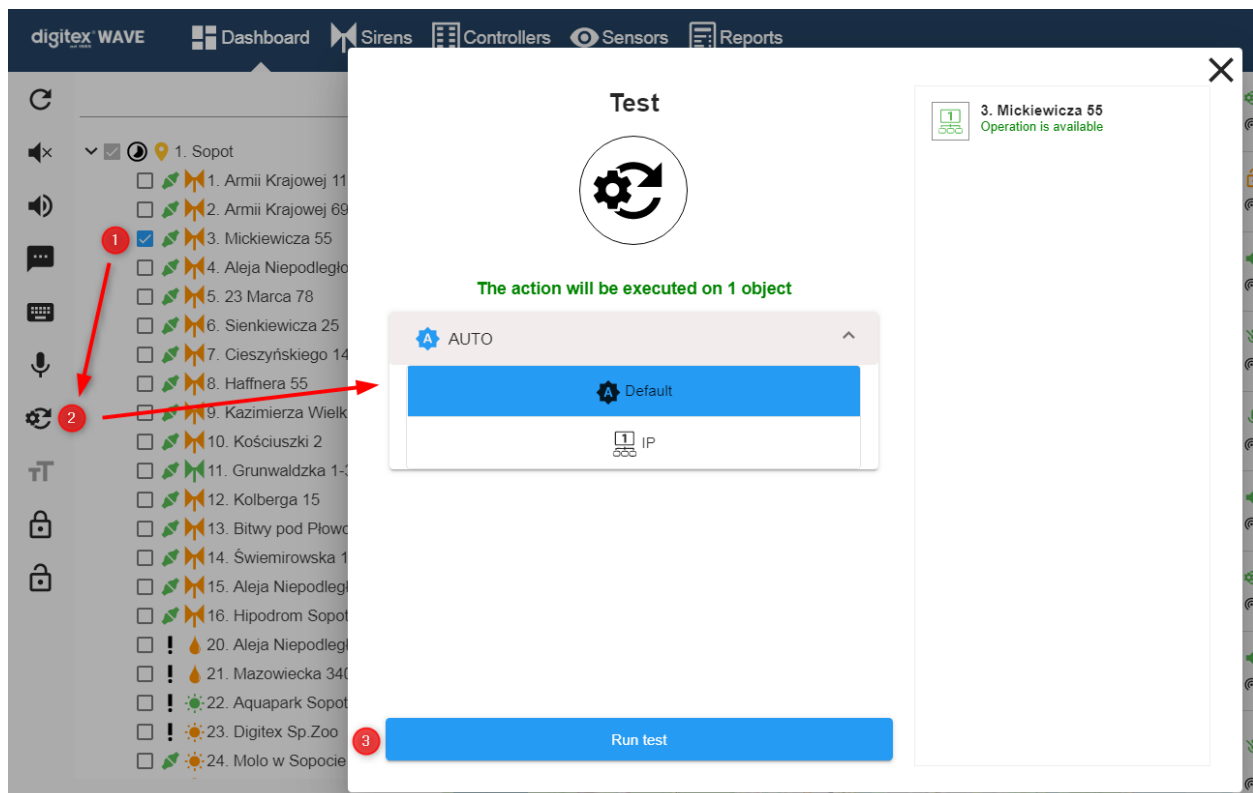


To end the transmission, click the CLOSE button

Test of the siren.

In addition to automated tests according to the schedule, we can trigger the test manually. The siren test is designed to test the parameters. The number of parameters checked depends on the type of siren.

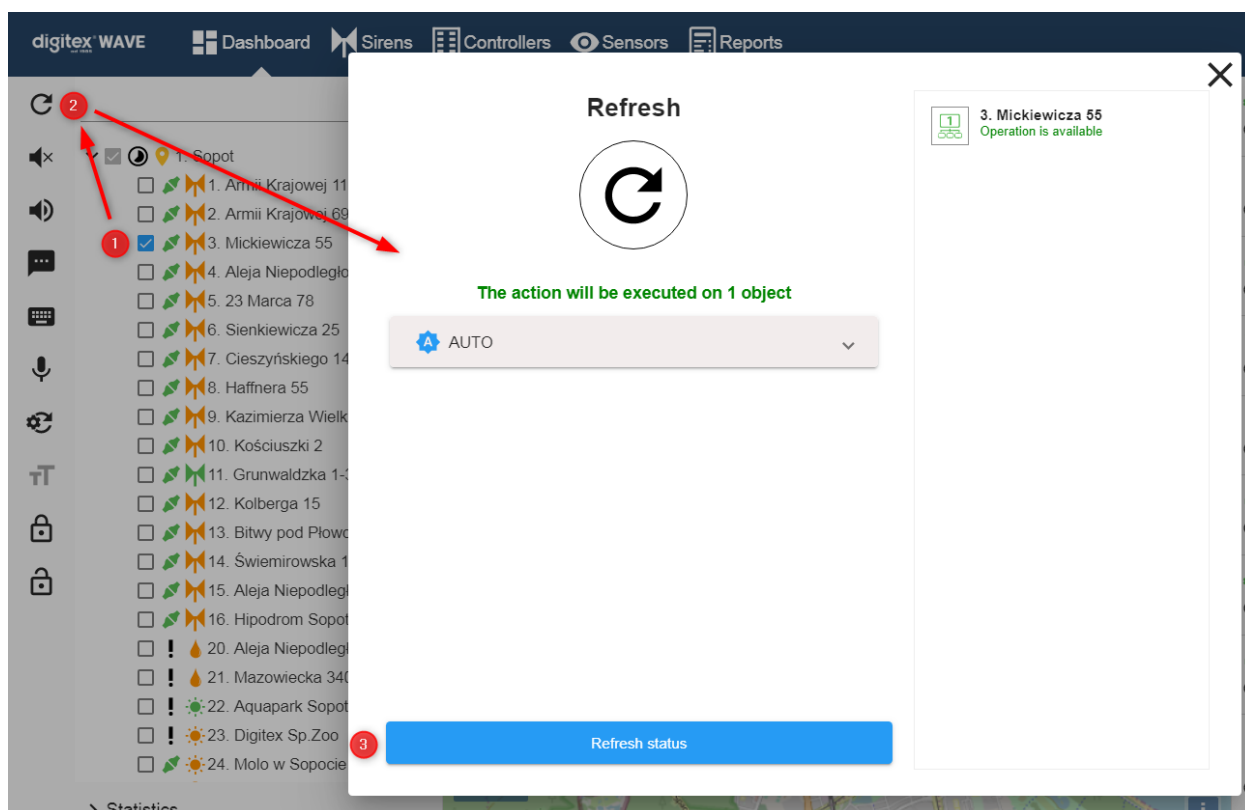
After selecting objects ¹, which we want to test, click on the TEST button in the menu or select the siren from the context menu ² - we go to the action menu.



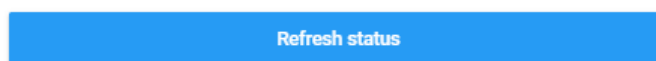
Sirens status updating.

In order to refresh the information about the object in the system, we can perform manual refresh without waiting for the automatic status. This action is usually used for sirens with a radio interface where statuses are sent less frequently or only during the night test. In the case of sirens controlled by IP, statuses are sent on a regular basis.

After selecting objects ¹, whose status we want to refresh, click the REFRESH STATUS button in the menu or select the siren from the context menu ² - we go to the action menu.



After entering the optional message and selecting the transmission channel, click on



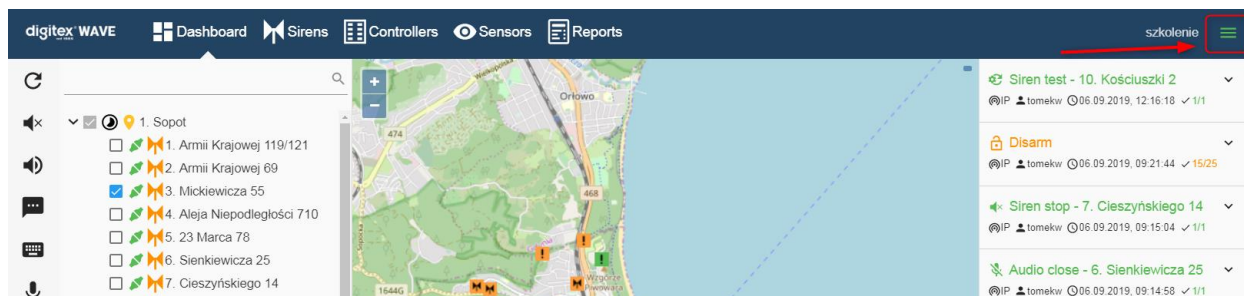
in the STARTUP menu. After downloading the status, we close the window.

Properties / status of the siren can be checked in the menu details described later in the manual.

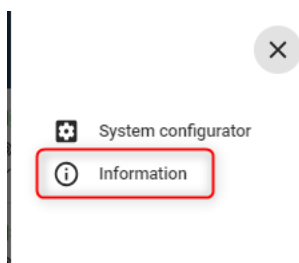
TRAINING mode

The application can work in "Training" mode. It is a mode in which all actions performed on system objects do not cause loud activation of alarm sirens.

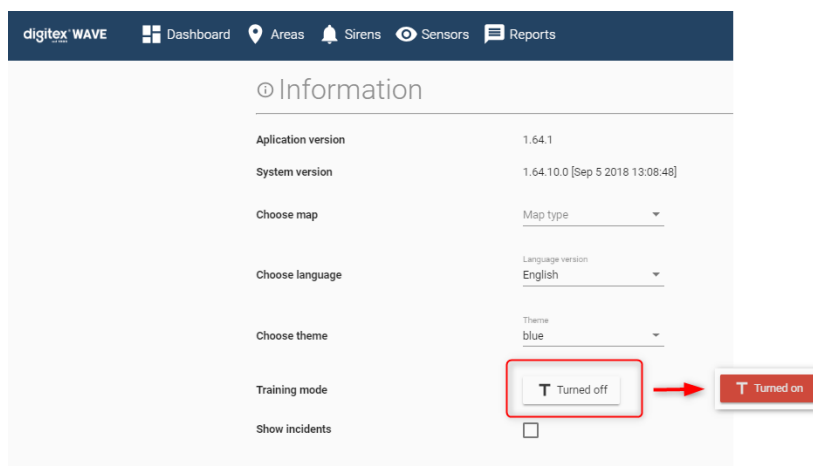
This mode is mainly intended for training and test purposes. To enter the application into the "Training" mode, you should "expand" the side menu by clicking the connection status icon on the right side of the main menu



and choose the INFORMATION option.

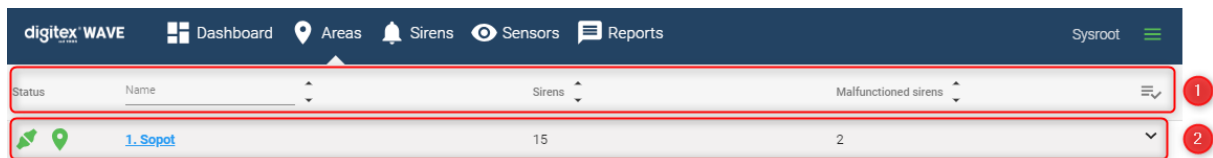


After the information window appears, start the workout mode by clicking the button.



Returning to the normal operation mode of the application is done in the same way. If you enter the application into the "Training" mode, the color of the application bar turns red in the upper part.

Areas



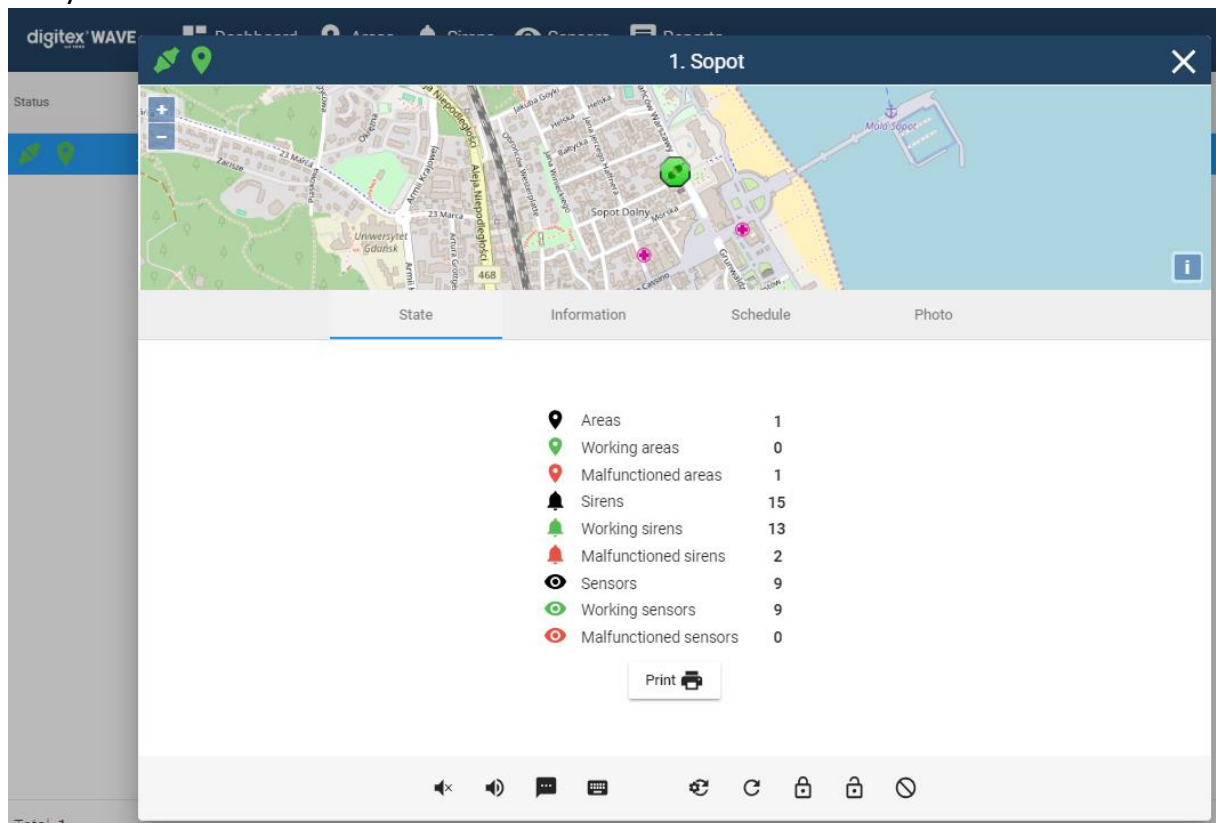
The area is a collection of alarm points, grouped according to defined assumptions, for example:

- sirens in one city,
- sirens in a specific area,
- specific type of sirens.

- 1 Field for filtering and sorting the list of areas configured in the system.
- 2 List of areas configured in the system and the state of the area.
Area - name of the defined area,
No. - presentation number of the area,
Address of the area - name of the area in the CZK/IP system,
Connection - current status of connecting the area to the system,
Status - current state of efficiency of the area, and more precisely of the manipulator that supports it,
Mode - current work mode of the area resulting from the system configuration.

In order to check detailed information about the area, click on the name of the area and go to the area description window.

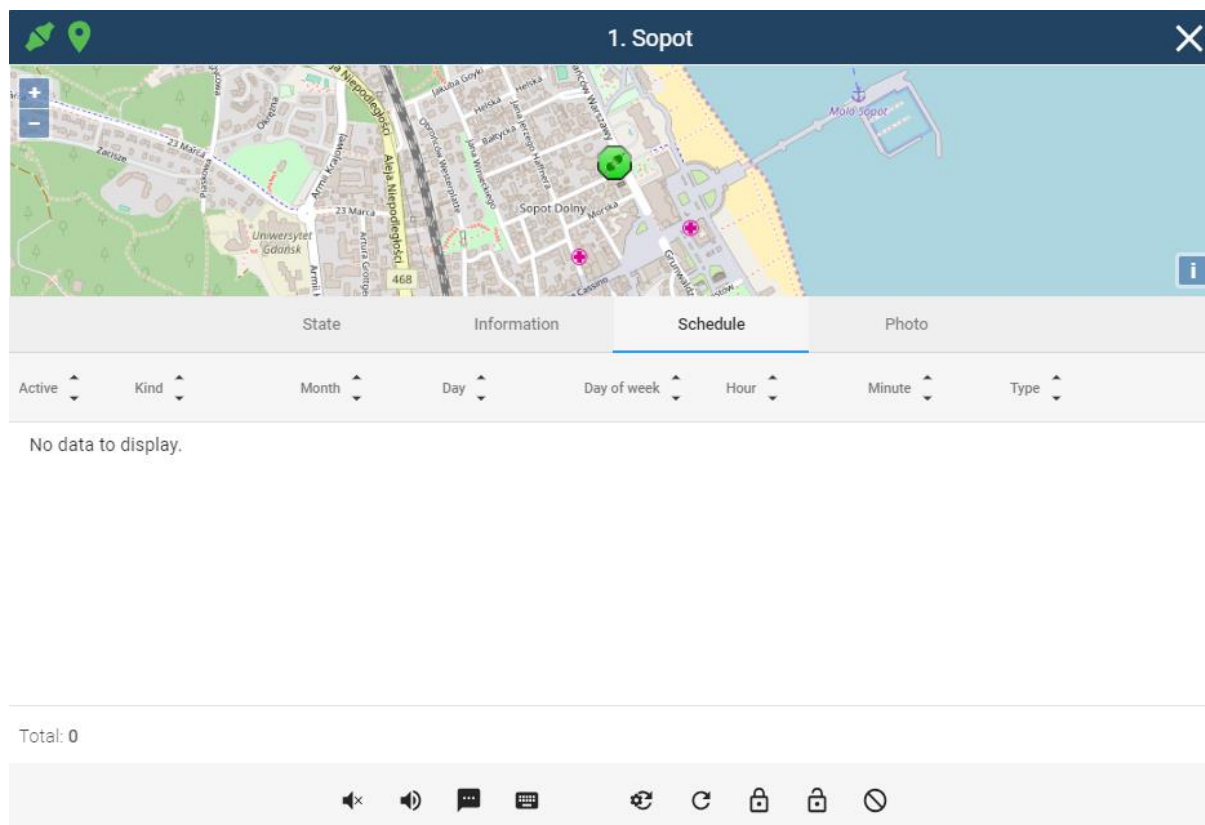
Areas/status



The statistics tab presents the current area statistics regarding the devices assigned to a given area.

Areas/schedule

In the Schedule area tab, we review the programmed action that will be performed in the area.



Active - status or action will be performed,

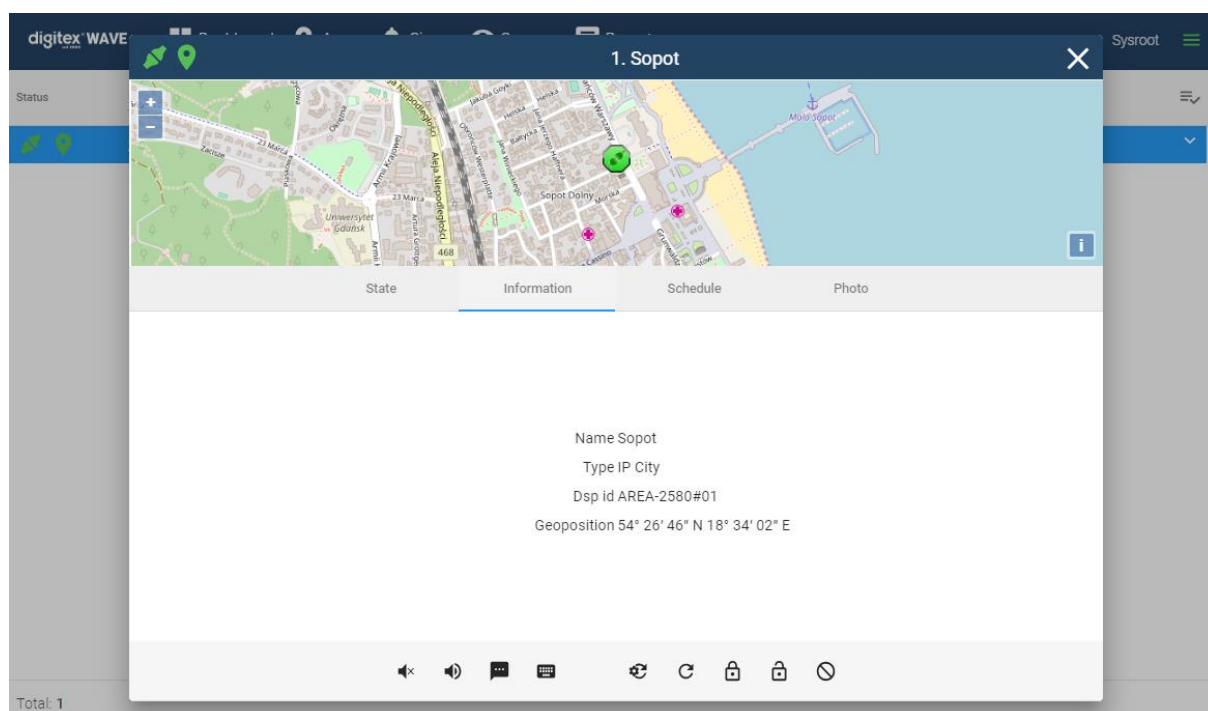
Identifier - area identifier in the CZK / IP system,

Date of the action - when the action will be launched,

Type - type of action - Test / Loud alarm sound / Silent alarm sound / City synchronization

Areas/Information

The information tab presents the system area type, its DSPIP address and geographical coordinates.



Sirens

In the sirens tab you will find information about currently programmed sirens in the system of their current status, configured location and recording of historical events registered in the system.

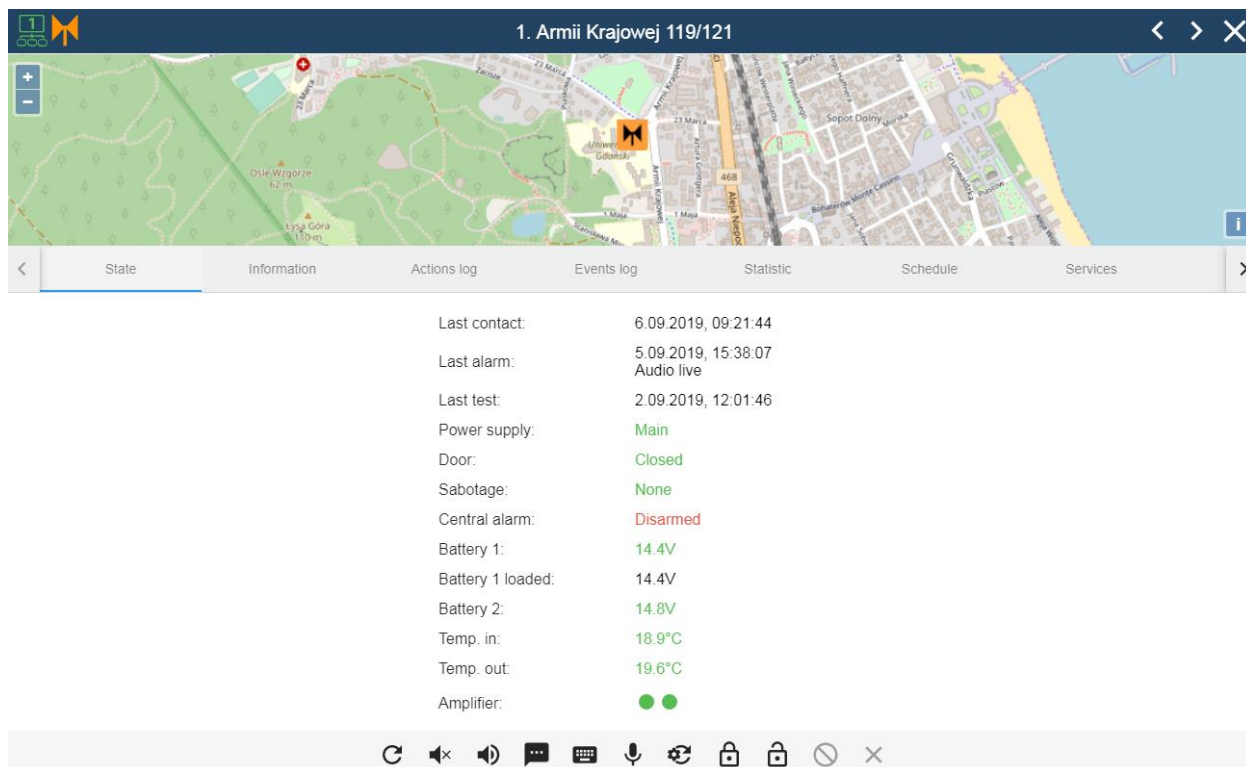
Status	Name	Last contact	Test date	Last alarm
1	1. Armii Krajowej 119/121	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	2. Armii Krajowej 69	6.09.2018, 12:25:58	6.09.2018, 12:25:58	6.09.2018, 12:25:53; Alarm 5 sekund - 5s
1	3. Mickiewicza 55	6.09.2018, 12:25:58	6.09.2018, 12:25:58	6.09.2018, 12:25:53; Alarm 5 sekund - 5s
1	4. Aleja Niepodległości 710	6.09.2018, 12:25:58	6.09.2018, 12:25:58	6.09.2018, 12:25:53; Alarm 5 sekund - 5s
1	5. 23 Marca 78	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	6. Sienkiewicza 25	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	7. Cieszyńskiego 14	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	8. Haffnera 55	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	9. Kazimierza Wielkiego 7	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s
1	10. Kościelna 1	6.09.2018, 10:29:38	6.09.2018, 10:29:38	6.09.2018, 10:26:38; Ogłoszenie alarmu - 180s

Total: 15

- 1 The filtering and sorting field of the siren list configured in the system. The filtering windows also allow you to search for the object you are interested in after entering the data in the AREA / SIREN / SIREN ADDRESS field. The program will search for matching objects.
- 2 List of sirens configured in the system and siren status. On the list, apart from the siren name, you will find basic information on the status of the connection and the status of the siren
- 3 Menu scrolling list.

in order to go to the details of a given siren, click on the description in the SYRENA table (blue font). It is also possible to go directly to the siren's details from the siren context menu.

State



The Status tab contains all information about the current state of the siren related to its efficiency.

Communication:

Last alarm - a registered report on the last start of alarm play sent from the siren

Last contact - information from the system when the last attempt to contact the siren was made,

Last test - information about receiving the status from the siren about the proper execution of the test.

Power supply - information on the main / emergency siren supply source, in case of Emergency power supply, additional operation time will be given in the emergency power supply mode,

Door – siren's cabinet door status,

Central alarm - the state of arming the control panel in the siren controller,

Battery 1 loaded – voltage value on batteries installed in the control panel at rest, the system will return siren damage after exceeding the limit values and after detecting the difference between the voltages of individual batteries,

Battery 2 loaded – voltage value on batteries installed in the control panel in the full load state (during full power play, measurement performed during the siren test procedure - where the siren is tested at the start of all full power amplifiers), the system will return siren damage after exceeding the limit values and after detecting the difference between the voltages of individual batteries,

Temp in – temperature recorded inside the siren's cabinet, the alarm range is set when the siren model is configured.

Temp out (option) - temperature recorded outside the siren's cabinet, the alarm range is set when the siren model is configured

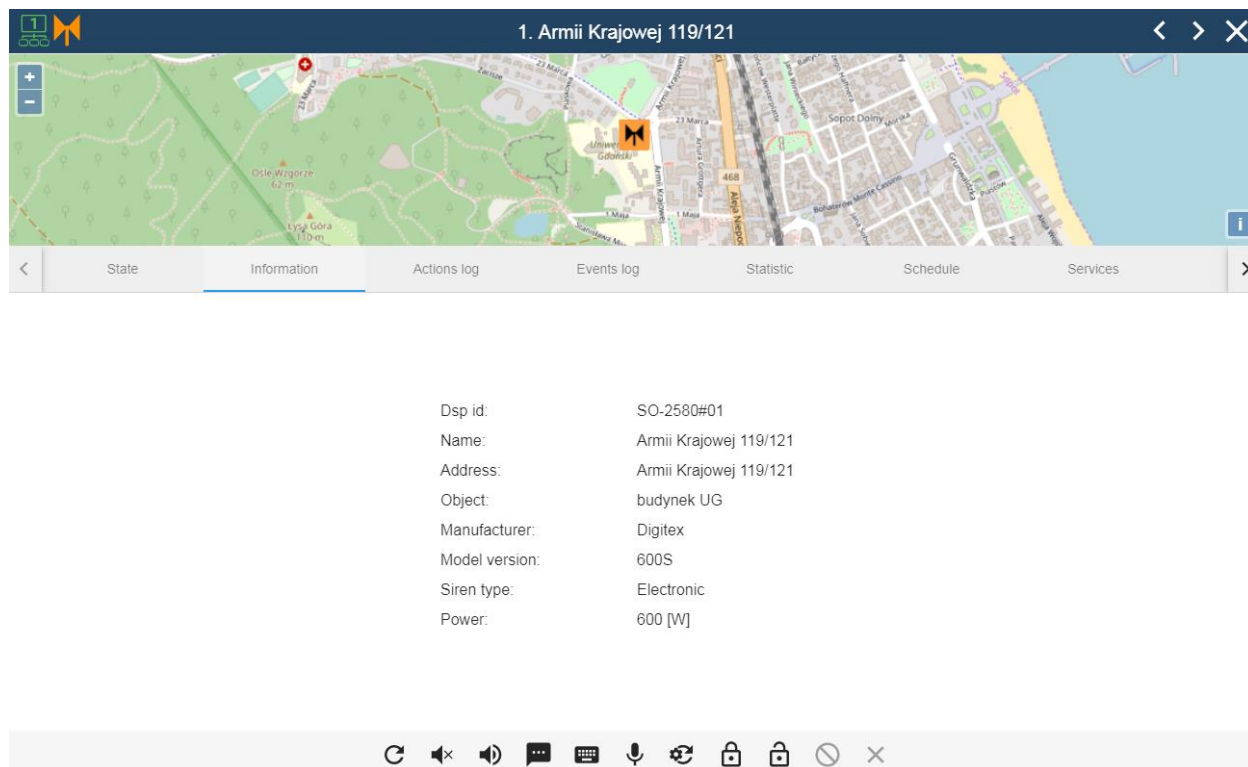
Amplifiers:

In the section for amplifiers for electronic sirens, the state of the audio track of the amplifier is presented. The green color means proper operation of both the amplifier and the efficiency of the wiring and coil in the loudspeaker - the whole audio track is tested.

In the case of sirens from the DSE series, the number of amplifiers is sent directly from the siren controller.

This is not the parameter specified in the configuration of the siren model.

Information



Dsp id:	SO-2580#01
Name:	Armii Krajowej 119/121
Address:	Armii Krajowej 119/121
Object:	budynek UG
Manufacturer:	Digitex
Model version:	600S
Siren type:	Electronic
Power:	600 [W]

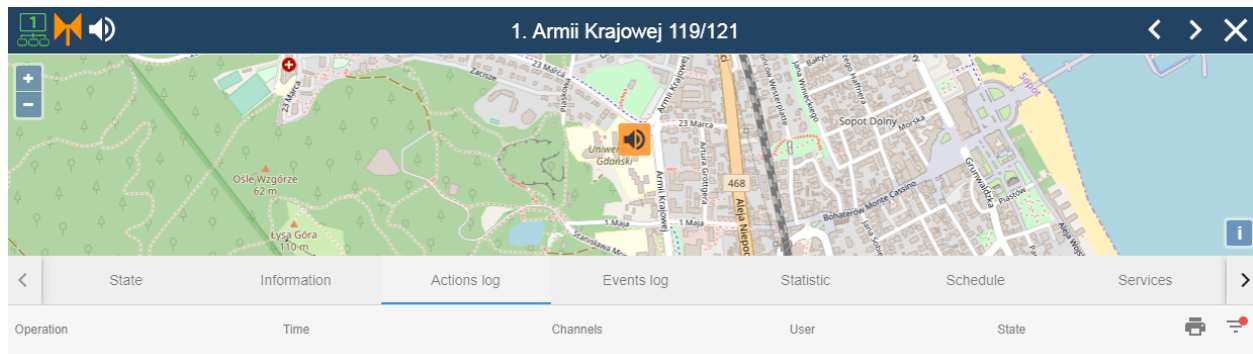
The Information tab contains basic information about the siren and a summary of its work status. Basic information (information is retrieved from the database configured in the system implementation process, it is possible to edit these elements by the system administrator):- **Dsp Id** – system address of the object

- **Name** – the siren presentation name displayed in the application,
- **Address** – siren installation address,
- **Object**– name of the object - most often it is a description of the building of the siren installation place,
- **Manufacturer** – siren's manufacturer,
- **Model version**– model of installed siren (with the model are related to other parameters, such as power, type, theoretical range and a list of parameters for presentation in the siren status),
- **Siren type** – type resulting from the siren model (we distinguish two types of sirens E - electronic sirens and M - mechanical sirens),
- **Power** – siren power expressed in Watts - results from the siren model,

The status summary shows the current status of the siren, i.e. the state of the connection:

🟢 - correct connection, 🔴 - lack of connection. Whereas the work mode describes the currently performed action on the siren (like playing, testing or missing actions).

Actions log



Total: 0

The action log presents operations related to the selected siren and activities on this siren. Any activity such as triggering alarming, testing, status refresh or live audio will be presented here along with its details. Operation - type of operation on the siren

Operation - type of operation on the siren

Time - date and time of the event

Object - list of objects for which an event was called

Channel - a channel or communication channels that the order went through

User - the user who ordered the action

Status - status of the task

Event log

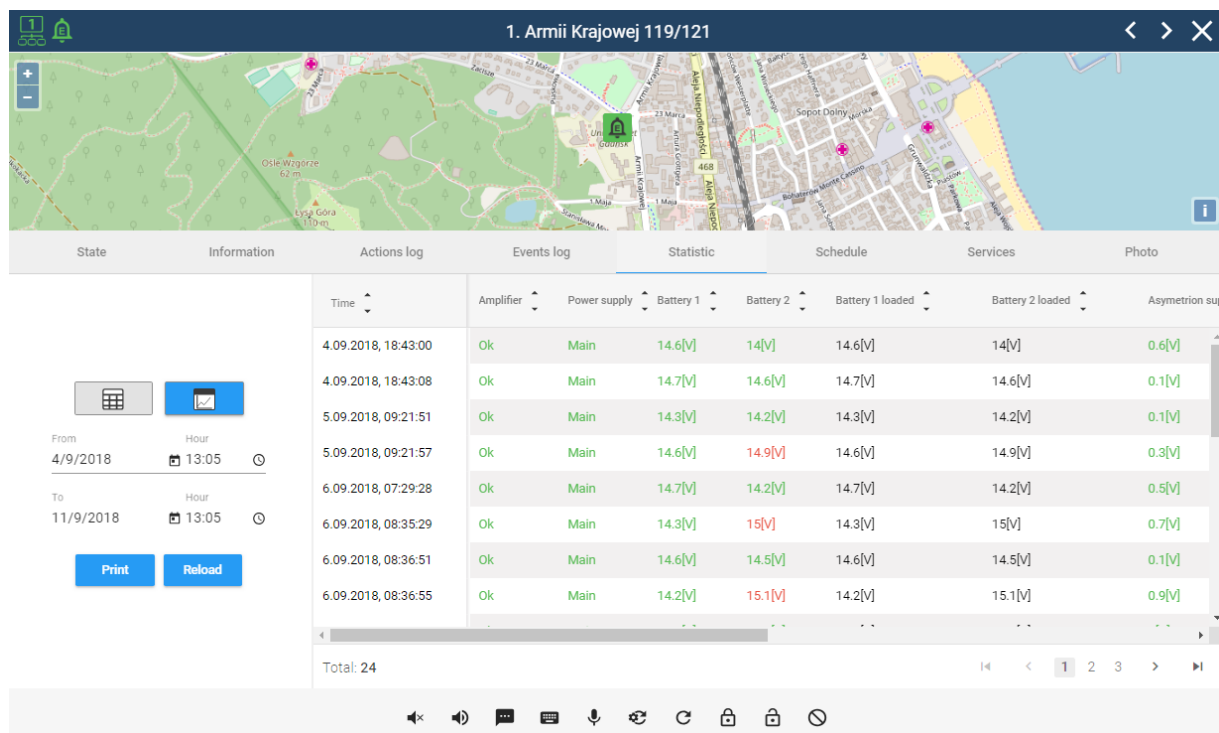
Log events show all events that took place within the siren. We will find system actions in response to user orders, as well as events resulting from autonomous system operation.

Time - date and time of the event

Event - type of event

Details - the ordering user and the number of objects

Statistics



In the statistics tab we can view the siren's work history.

List of registered siren operation parameters:

Amplifier - information about whether an amplifier failed at a given time,

Power supply - information whether there was a main power failure at a given time,

Battery 1 - voltage on the battery no. 1,

Battery 2 - voltage on the battery no. 2,

Battery 1 loaded - voltage on the battery no. 1 under load,

Battery 2 loaded - voltage on battery no. 2 under load,

Asymmetry supply- the occurrence of the difference and its value between the state of charge of the batteries,

Solar current - power supply status in case of photovoltaic panels power supply,

Temp in/Temp out - temperature value in/outside the sirens cabinet,

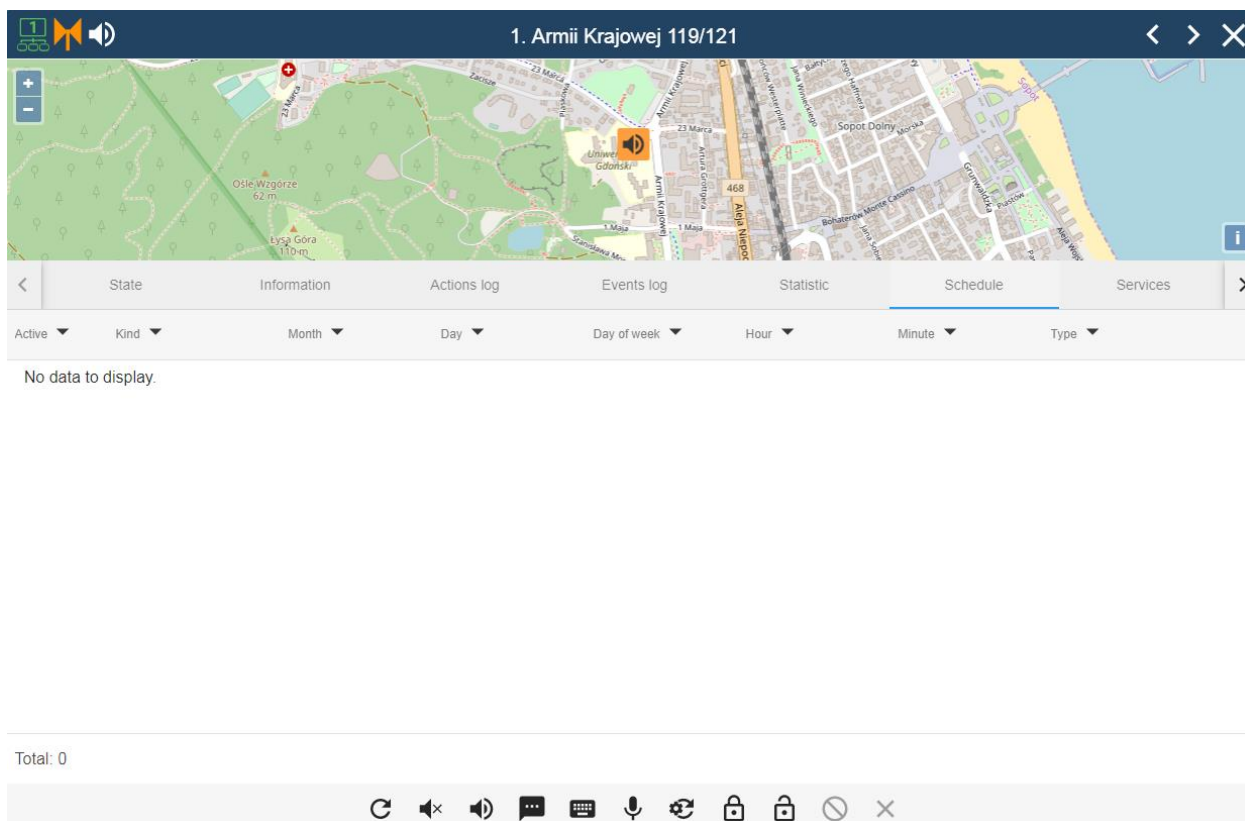
Connected - connection status with the siren,

Door - the state of the alarm siren door,

Sabotage - registered unauthorized "zones" - means opening the door with the siren controller armed with alarm control panel,

Last alarm – last alarm played.

Schedule



In the schedule tab we can check what action is performed automatically on the siren being checked. Active - status or action will be performed,

Active - status or action will be performed,

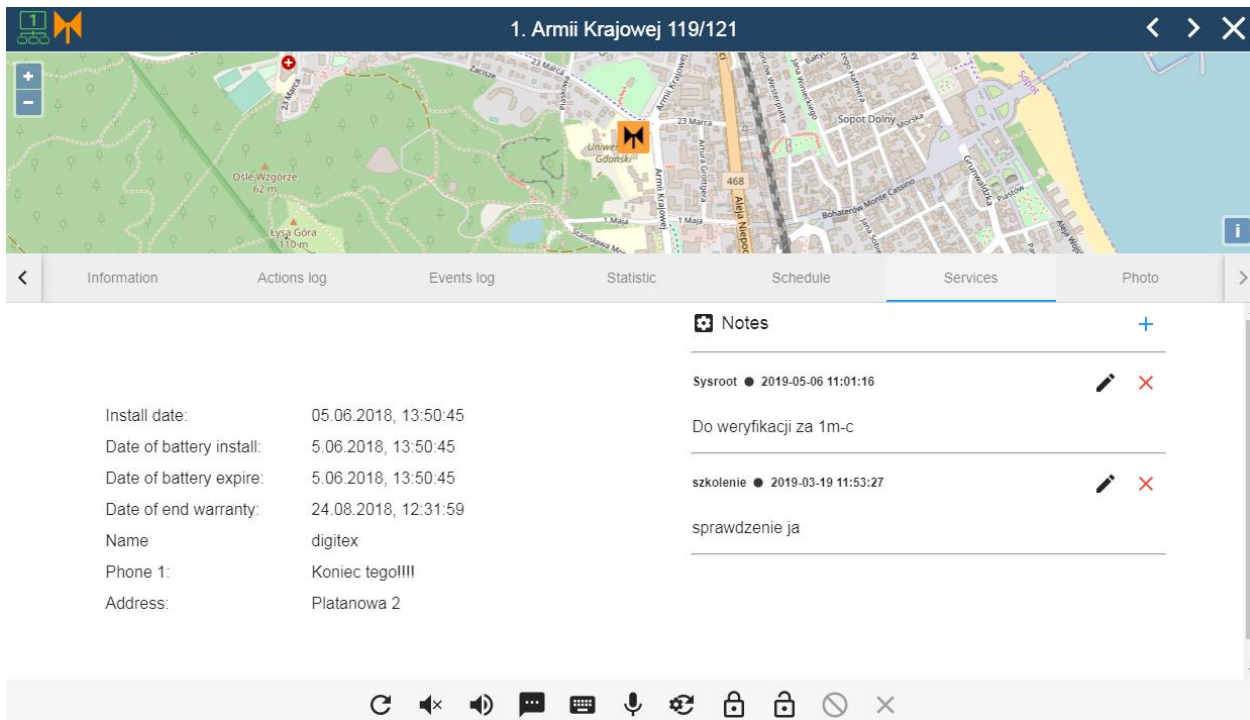
Kind - siren identifier in the CZK / IP system,

Type - determines where the order for the action will come from (Individual - for activating the action corresponds to the siren driver and the action will be performed without the participation of the CZK / IP server, the second type System - the action will be sent from the CZK / IP server)

Date of the action - when the action will be launched,

Type - type of action - Test / loud alarm / Silent alarm

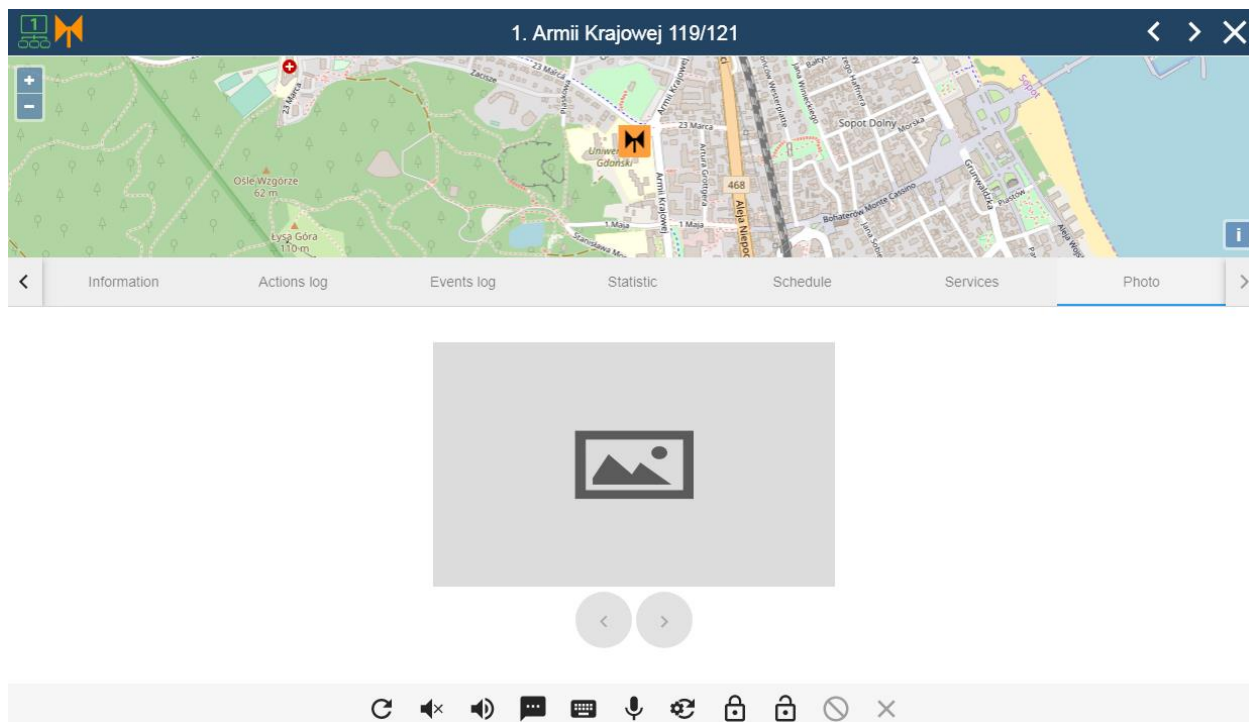
Service



In the Service tab, you will find service and installation data. - Date of installation - date of alarm siren installation- Install date - date of installing the batteries in the alarm siren

- Install date - date of installing the batteries in the alarm siren
- Date of battery expire - approximate date when you should plan the replacement of batteries
- date of the end of warranty - date of expiry of the manufacturer's warranty
- Serial no - serial number of the control box
- Company name - data of the company providing the service
- Phone 1 - telephone number of the company providing the service
- Phone 2 - telephone number of the company providing the service
- Address - the address of the company providing the service
- Notes - the place to add a note

Photo



The Photo tab contains a photograph of the object. Photography is not obligatory, so it often happens that the field is empty.

Sensors

1

digitex WAVE

Dashboard

Sirens

Controllers

Sensors

Reports

szkolenie

Status	Name	Kind	Read time	Read value	
	! 20. Aleja Niepodległości Most	Limnimeter	22.08.2019, 14:42:40	330.7 cm	
	! 21. Mazowiecka 340	Limnimeter	22.08.2019, 14:42:40	291.4 cm	
	! 22. Aquapark Sopot	Meteo station Vaisala	2.09.2019, 11:02:28	15.4 °C 0.0 m/s 968.2 hPa	
	! 23. Digitex Sp.Zoo	Meteo station Vaisala	22.08.2019, 14:42:40	-20.5 °C 0.0 m/s 970.3 hPa	
	! 24. Moło w Sopocie	Meteo station Davis	22.08.2019, 14:42:40	-30.0 °C 15.1 m/s 1044.0 hPa	
	! 25. Rzemieślnicza 3	Chlorine sensor	22.08.2019, 14:42:40	4.1 Particle number	
	! 26. Rzemieślnicza 3	Amonia sensor	22.08.2019, 14:42:40	3.4 Particle number	
	! 27. Aleja Niepodległości 664	Bio hazard sensor	22.08.2019, 14:42:40	---	
	! 28. Urząd Miasta Sopot	Radiation sensor	11.09.2019, 12:41:21	1.403 uSv/m	
	! 29. Urząd Miasta Sopot	Dust sensor	22.08.2019, 14:42:40	0.0 µg/m³	

1

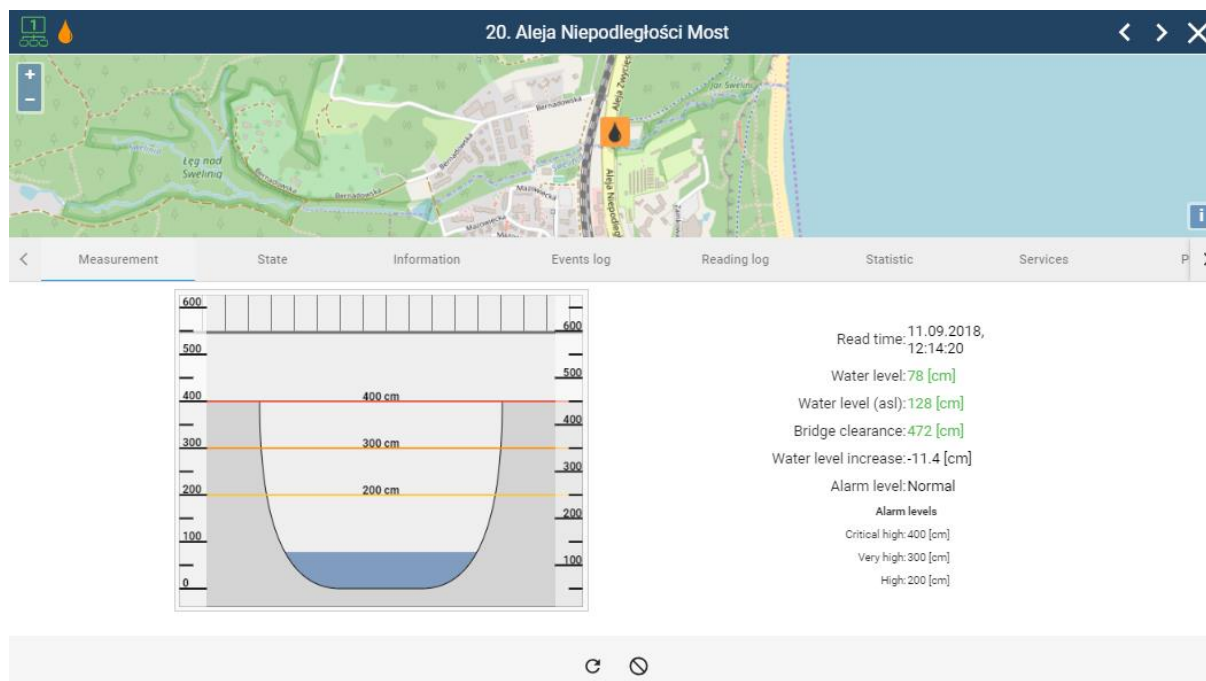
2

Sensors

- 1
- 1 Filtering and sorting field of the list of sensors configured in the system. The filtering windows also allow you to search for the object you are interested in after entering the data in the field: Area / No. / Sensor / Sensor type / Address of the sensor. The program will search for matching objects.
- 2 List of sensors configured in the system and connection status. In the list, apart from the sensor name, you will find basic information about the sensor.

In order to get to the details stored in the system concerning a given sensor, please click in the row for the description from the Sensor column (blue font)

Sensors/Measurement



The Measure tab presents current data transmitted from the sensor and results of operations on this data.

Read time - time of receiving the last information from the sensor

Water level - data from the sensor in [cm]

Water level (asl) - data from the sensor in [cm]

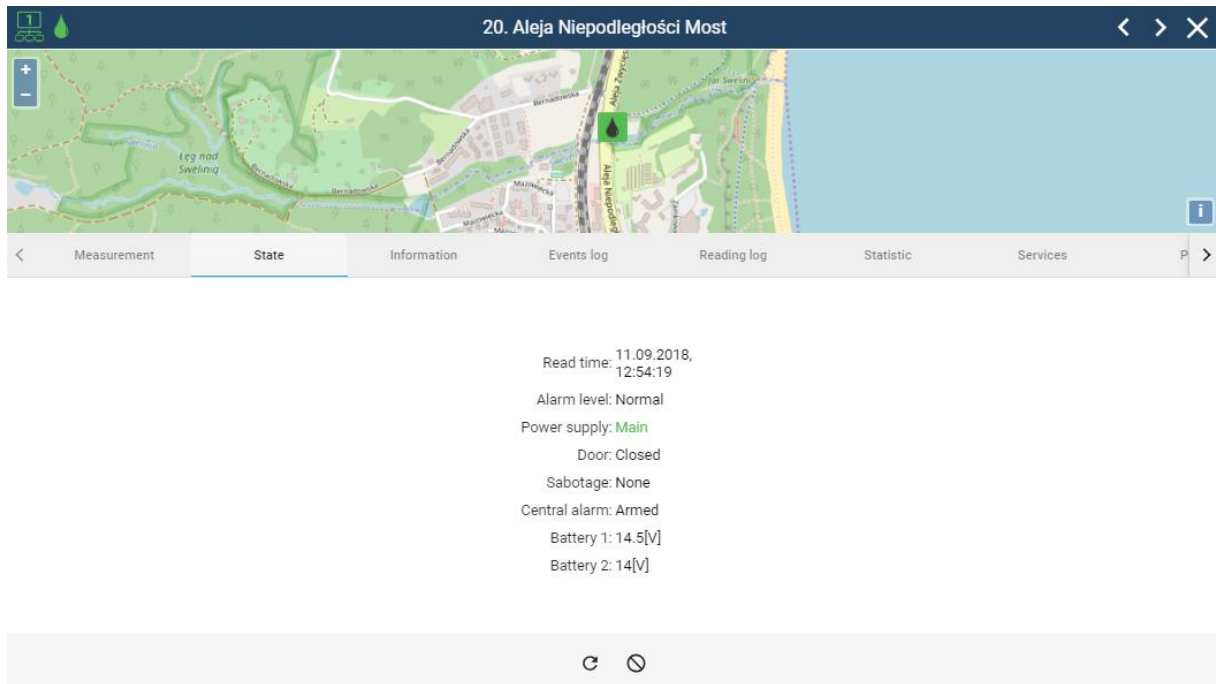
Bridge clearance - data in [cm]

Water level increase - data calculated in [cm]

Alarm level - the water level range in relation to the defined alarm levels

Please note that the data presented depends on sensor type has been used.

Stensor/state



The Status tab provides information about the hardware backend of the sensor and the current alarm level.

Read time - time of receiving the latest data

Alarm level - current alarm level

Power supply - power supply status

Door - the state of opening the door

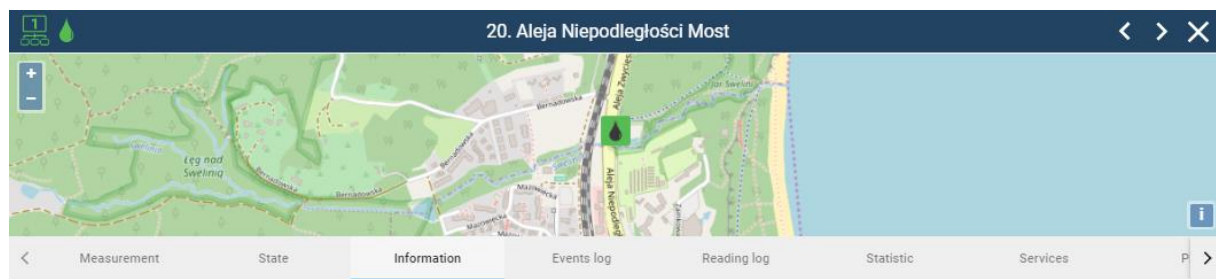
Sabotage - information about unauthorized opening of the door

Central alarm - the state of the control panel

Battery 1 - current battery voltage 1

Battery 2 - current battery voltage 2

Sensors/Information



Aleja
Name: Niepodległości
Most:
Dsp id: SENSORDEV-
2580#200
Sensor type: Limnimeter
Geoposition: 54° 27' 44" N 18°
33' 15" E



Name – name of sensor

Dsp Id – system number

Sensor type – type of sensor

Geoposition – geographical coordinates of the location

Sensors/Events log

1

20. Aleja Niepodległości Most

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i

< Measurement State Information Events log Reading log Statistic Services P >

Time	Event	Details
06.09.2018, 10:20:21	Connected	---
06.09.2018, 10:19:19	Device connection error	---
05.09.2018, 09:21:57	Connected	---
04.09.2018, 18:43:08	Connected	---
03.09.2018, 12:42:17	Connected	---
03.09.2018, 12:40:18	Connected	---
31.08.2018, 00:13:09	Connected	---

Total: 55

1 2 3 4 5

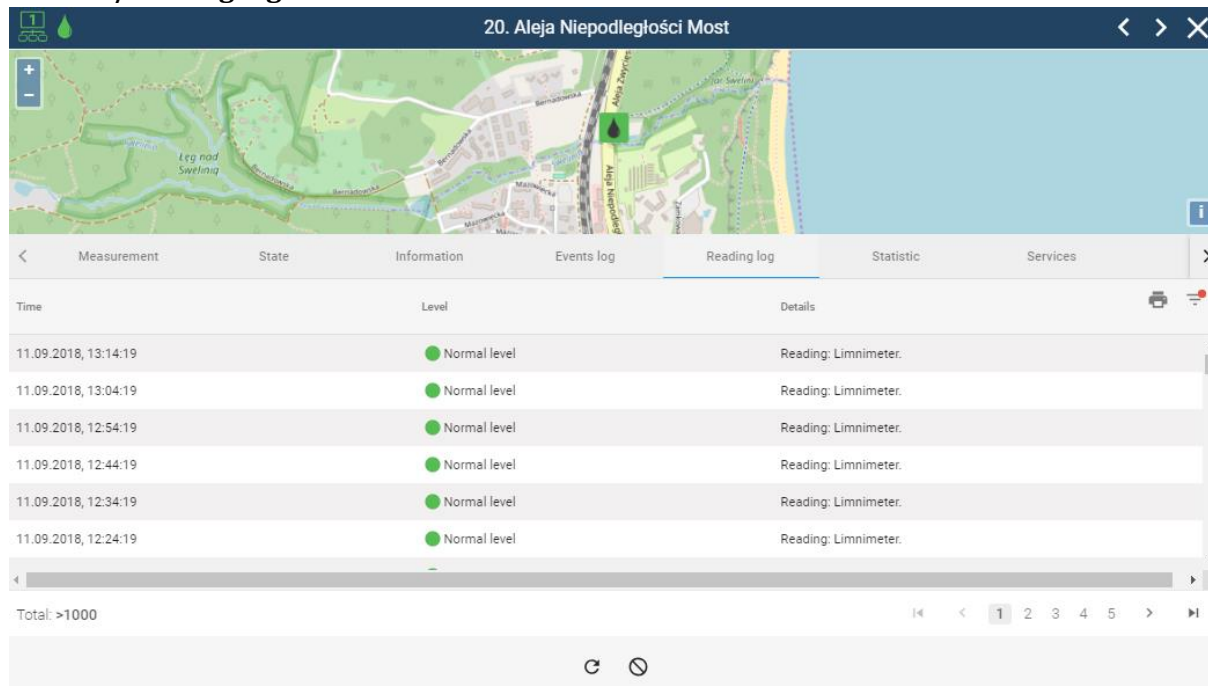
< >

↺

⊘

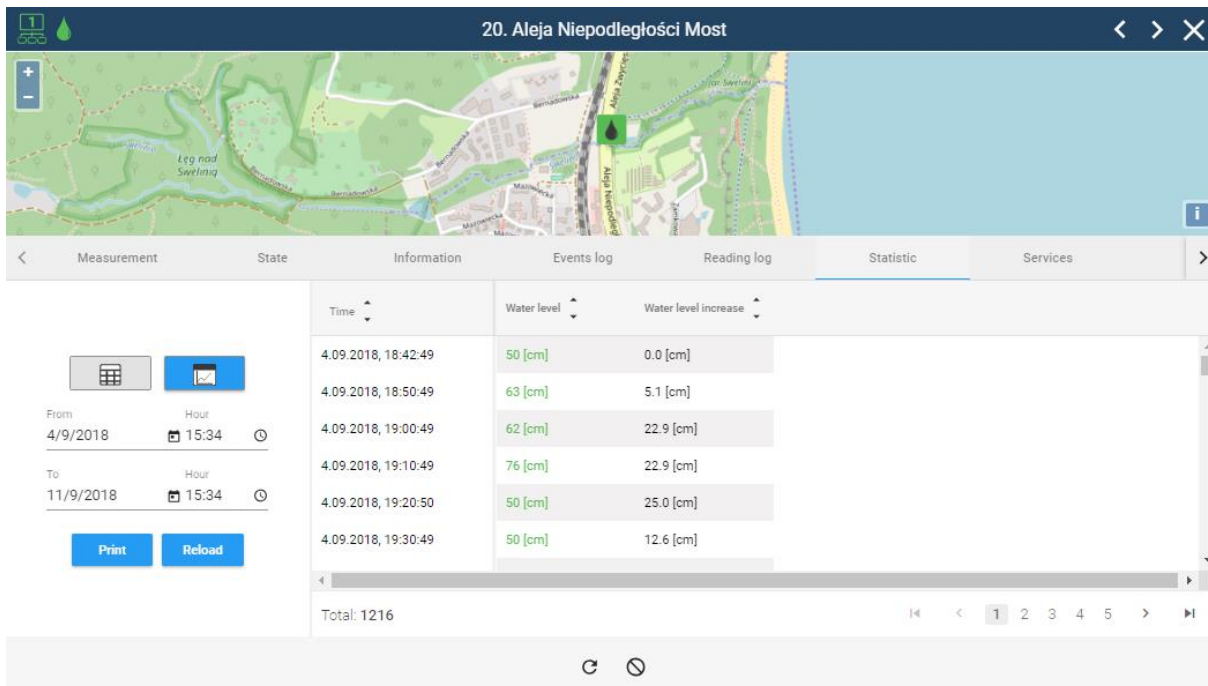
The Event log tab contains information about system events related to the sensor. If the connection to the sensor is lost, the system will notify you via the entry here.

Sensors/reading log



In the Reading log tab, the measurement data that the sensor has sent to the system are recorded. Each measurement has a time stamp and the level of possible alarm.

Sensor/statistic



The Statistics tab contains exact data about each sensor measurement with detailing for each parameter that a given sensor measures. In the case of weather stations, there will be many parameters and each of them will be presented. Each parameter can be displayed graphically.



Sensors/Services

The screenshot displays a web application interface for a sensor service. At the top, a dark blue header bar contains a sensor icon, the title "20. Aleja Niepodległości Most", and navigation arrows. Below the header is a map showing the sensor's location on a street. A bottom navigation bar includes tabs for "Measurement", "State", "Information", "Events log", "Reading log", "Statistic", and "Services", with "Services" currently selected. The main content area lists the following details:

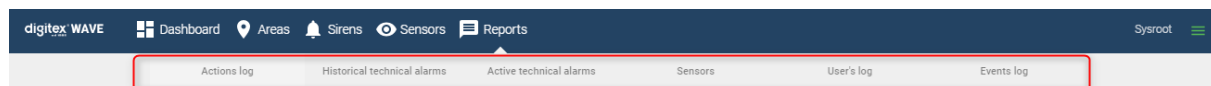
- Install date: 24.08.2018, 14:20:22
- Date of battery install: 24.08.2018, 14:20:22
- Date of battery expire: 24.08.2018, 14:20:22
- Date of end warranty: No data
- Serial no.:
- Nazwa firmy: digitex
- Phone 1:
- Phone 2:
- E-mail:
- Address: Platanowa 2

At the bottom of the content area, there are two icons: a circular arrow and a crossed-out circle.

The Service tab is analogous to the Service tab in alarm sirens and has been described there.

Reports

Reports enable an overview of events in the system and peripheral devices. Reports are divided into several types.



- Action log
- Historical technical alarms
- Active technical alarms
- Sensors
- User's log
- Event log

After selecting the report, the data is displayed divided into columns appropriate for a given report.

The screenshot shows the 'Reports' interface with the 'Actions log' report selected. The data is displayed in a table with the following columns: Operation, Time, Objects, Channels, User, and State. The table is filtered and sorted by the 'State' column, showing a list of events. The table is highlighted with a red box, and the filtering and sorting field is indicated by a red circle with the number 1. The list of events is indicated by a red circle with the number 2.

Operation	Time	Objects	Channels	User	State
Audio open	11.09.2018, 18:26:35	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
Audio close	07.09.2018, 12:26:21	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1
Audio open	07.09.2018, 12:26:18	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1
Audio close	07.09.2018, 12:04:10	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1
Audio open	07.09.2018, 12:04:00	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1
Audio close	07.09.2018, 12:03:39	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
Audio open	07.09.2018, 12:02:44	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
Siren play - Alarm 5 sekund	06.09.2018, 12:25:53	Objects list	IP	Sysroot	Successful 3/3
Siren stop	06.09.2018, 11:17:14	Objects list	IP	Sysroot	Successful 3/3
Siren stop	06.09.2018, 11:16:41	Objects list	IP	Sysroot	Successful 3/3
Refresh siren status	06.09.2018, 10:45:39	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1
Siren play - Ogłoszenie alarmu	06.09.2018, 10:26:38	Objects list	IP	Sysroot	Successful 16/16
Siren stop	06.09.2018, 10:26:15	Objects list	IP	Sysroot	Successful 16/16
Refresh siren status	06.09.2018, 08:39:24	Objects list	IP	Sysroot	Successful 2/2

1 The filtering and sorting field of the list of events registered in the system.

2 List of events registered in the system.

Each report can be filtered. After clicking on the filter icon you can choose the range, objects and type of the event.

Reports Sysroot

Active technical alarms Sensors User's log Events log

Channels User State

Log filter

Type: All

Objects: Select object

Date: From 5/9/2018 10:37 To 12/9/2018 10:37

FILTER NOW

Channels	User	State
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 3/3
Sysroot	Sysroot	Successful 3/3
Sysroot	Sysroot	Successful 3/3
Sysroot	Sysroot	Successful 1/1
Sysroot	Sysroot	Successful 16/16

Once we have obtained the data we are interested in, we can print it or export it to XLS or DOC format. To perform, click the printer icon.

digitex® 12.09.2018, 11:08:30

Actions log

#	Operation	Time	Objects	Channel	User	State
1.	Audio open	11.09.2018, 18:26:35	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
2.	Audio close	07.09.2018, 12:26:21	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1
3.	Audio open	07.09.2018, 12:26:18	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1
4.	Audio close	07.09.2018, 12:04:10	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1
5.	Audio open	07.09.2018, 12:04:00	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1
6.	Audio close	07.09.2018, 12:03:39	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
7.	Audio open	07.09.2018, 12:02:44	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1
8.	Siren play - Alarm 5 sekund	06.09.2018, 12:25:53	Objects list	IP	Sysroot	Successful 3/3
9.	Siren stop	06.09.2018, 11:17:14	Objects list	IP	Sysroot	Successful 3/3
10.	Siren stop	06.09.2018, 11:16:41	Objects list	IP	Sysroot	Successful 3/3
11.	Refresh siren status	06.09.2018, 10:45:39	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1

[XLS](#)
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Reports/Actions log

The action log contains actions taken by the dispatcher on alarm sirens, sensors and areas. Each activity is logged in the system and is available in this report.

	Actions log	Historical technical alarms	Active technical alarms	Sensors	User's log	Events log	
Operation	Time	Objects	Channels	User	State		
Audio open	11.09.2018, 18:26:35	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1		
Audio close	07.09.2018, 12:26:21	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1		
Audio open	07.09.2018, 12:26:18	4. Aleja Niepodległości 710	IP	Sysroot	Successful 1/1		
Audio close	07.09.2018, 12:04:10	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1		
Audio open	07.09.2018, 12:04:00	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1		
Audio close	07.09.2018, 12:03:39	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1		
Audio open	07.09.2018, 12:02:44	1. Armii Krajowej 119/121	IP	Sysroot	Successful 1/1		
Siren play - Alarm 5 sekund	06.09.2018, 12:25:53	Objects list	IP	Sysroot	Successful 3/3		
Siren stop	06.09.2018, 11:17:14	Objects list	IP	Sysroot	Successful 3/3		
Siren stop	06.09.2018, 11:16:41	Objects list	IP	Sysroot	Successful 3/3		
Refresh siren status	06.09.2018, 10:45:39	2. Armii Krajowej 69	IP	Sysroot	Successful 1/1		
Siren play - Ogłoszenie alarmu	06.09.2018, 10:26:38	Objects list	IP	Sysroot	Successful 16/16		
Siren stop	06.09.2018, 10:26:15	Objects list	IP	Sysroot	Successful 16/16		
Refresh siren status	06.09.2018, 08:39:24	Objects list	IP	Sysroot	Successful 2/2		
Refresh siren status	06.09.2018, 08:30:00	Objects list	IP	Sysroot	Successful 15/15		
Total: 40							14 < 1 2 3 > ▶

Reports/Historical technical alarms

	Actions log	Historical technical alarms	Active technical alarms	Sensors	User's log	Events log	
Time	Failure	Object	State				
11.09.2018, 13:21:54	WPD disconnected	Wyniesiony punkt dostępowy nr 00	Inactive				
11.09.2018, 13:21:52	No connection with the device	14. Świebrowska 13	Inactive				
11.09.2018, 13:21:52	No connection with the device	15. Aleja Niepodległości 930	Inactive				
11.09.2018, 13:21:52	No connection with the device	13. Bitwy pod Płowcami 67C	Inactive				
11.09.2018, 13:21:52	No connection with the device	12. Kolberga 15	Inactive				
11.09.2018, 13:21:52	No connection with the device	11. Grunwaldzka 1-3	Inactive				
11.09.2018, 13:21:52	No connection with the device	10. Kościuszki 2	Inactive				
11.09.2018, 13:21:52	No connection with the device	9. Kazimierza Wielkiego 7	Inactive				
11.09.2018, 13:21:52	No connection with the device	8. Haffnera 55	Inactive				
11.09.2018, 13:21:52	No connection with the device	7. Cieszyńskiego 14	Inactive				
11.09.2018, 13:21:52	No connection with the device	6. Sienkiewicza 25	Inactive				
11.09.2018, 13:21:52	No connection with the device	5. 23 Marca 78	Inactive				
11.09.2018, 13:21:52	No connection with the device	4. Aleja Niepodległości 710	Inactive				
11.09.2018, 13:21:52	No connection with the device	3. Mickiewicza 55	Inactive				
11.09.2018, 13:21:52	No connection with the device	2. Armii Krajowej 69	Inactive				
Total: >1000							14 < 1 2 3 4 5 > ▶

A technical alarm is an alarm that results from incorrect operation within the system's technical back-up. The AT History report will contain all technical alarms that are no longer valid. It means that the state of failure has disappeared and the entry should be treated as informative.

Technical alarms include:

- no connection
- lack of basic power supply
- device sabotage
- radiotelephone blocked
- no connection to the COM port
- incorrect reading from the sensor
- alarm siren's amplifier failure
- no backup power supply
- no connection to the radiotelephone

Reports/Active technical alarms

Actions log		Historical technical alarms	Active technical alarms	Sensors	User's log	Events log
Time	Failure	Object		State	Confirmed	 
06.09.2018, 10:19:19	No connection with the device	28. Urząd Miasta Sopot		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	27. Aleja Niepodległości 664		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	26. Rzemieślnicza 3		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	25. Rzemieślnicza 3		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	24. Molo w Sopocie		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	23. Digitek Sp.Zoo		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	22. Aquapark Sopot		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	21. Mazowiecka 340		Inactive	Confirm	
06.09.2018, 10:19:19	No connection with the device	20. Aleja Niepodległości Most		Inactive	Confirm	
24.08.2018, 12:21:32	COM port error	Punkt dostępowy nr 01		Active	Confirm	
06.09.2018, 10:19:20	No connection with the device	12. Kolberga 15		Inactive	Confirm	
06.09.2018, 10:19:20	No connection with the device	11. Grunwaldzka 1-3		Inactive	Confirm	
06.09.2018, 10:19:20	No connection with the device	10. Kościuszki 2		Inactive	Confirm	
06.09.2018, 10:19:20	No connection with the device	9. Kazimierza Wielkiego 7		Inactive	Confirm	
06.09.2018, 10:19:20	No connection with the device	8. Młocznicy 55		Inactive	Confirm	

Total: 26

14 < 1 2 > 11

Active Technical Alarms are the same group of alarms referred to in the previous point, with the difference that current alarms are still valid. This means that the factor that caused the alarm situation is still present and the unwanted situation continues. If the operator is aware of the problem, he can use the Confirm button to indicate in the system the fact of getting to know the alarm.

Reports/Sensors

digitex WAVE

Dashboard

Areas

Sirens

Sensors

Reports

Sysroot

Actions log

Historical technical alarms

Active technical alarms

Sensors

User's log

Events log

Time	Level	Object	Details
12.09.2018, 10:26:20	↑ Alarming level	20. Aleja Niepodległości Most	Reading: Limnimeter.
12.09.2018, 10:26:20	↑ Threat is increasing	20. Aleja Niepodległości Most	Threshold alarm: Water level: 221.0
12.09.2018, 10:26:20	↑ Alarming level	21. Mazowiecka 340	Reading: Limnimeter.
12.09.2018, 10:26:20	↑ Threat is increasing	21. Mazowiecka 340	Threshold alarm: Water level: 240.4
12.09.2018, 10:21:20	↑ Alarming level	20. Aleja Niepodległości Most	Reading: Limnimeter.
12.09.2018, 10:21:20	↑ Threat is increasing	20. Aleja Niepodległości Most	Threshold alarm: Water level: 221.0
12.09.2018, 10:20:19	↑ Alarming level	21. Mazowiecka 340	Reading: Limnimeter.
12.09.2018, 10:20:19	↑ Threat is increasing	21. Mazowiecka 340	Threshold alarm: Water level: 213.4
12.09.2018, 10:21:20	● Normal level	28. Urząd Miasta Sopot	Reading: Radiation sensor.
12.09.2018, 10:21:20	● Normal level	22. Aquapark Sopot	Reading: Meteo station Vaisala.
12.09.2018, 10:21:20	● Normal level	23. Digitex Sp. Zoo	Reading: Meteo station Vaisala.
12.09.2018, 10:21:20	● Normal level	24. Molo w Sopocie	Reading: Meteo station Davis.
12.09.2018, 10:21:20	● Normal level	25. Rzemieślnicza 3	Reading: Chlorine sensor.
12.09.2018, 10:21:20	● Normal level	26. Rzemieślnicza 3	Reading: Amonia sensor.
12.09.2018, 10:21:20	● Normal level	27. Aleja Niepodległości 664	Reading: Radiation sensor.

Total: >1000

1

2

3

4

5

The sensors report contains information on the details of reading data from the sensor. Depending on the type of sensor, data can have different levels and types. The report presents information:

- reading of sensor data
- comparison of data from the sensor and assigning it to the appropriate level
- information on exceeding the alarm level
- increase in risk
- error reading from the sensor (out of range)

Reports/users log

Actions log		Historical technical alarms	Active technical alarms	Sensors	User's log	Events log
Time	Operation			User		
12.09.2018, 09:55:04	User's log out			Wojtek		
12.09.2018, 09:10:01	User's log in			Wojtek		
12.09.2018, 09:09:57	User's log in error			Sysroot		
12.09.2018, 09:09:54	User's log out			Sysroot		
12.09.2018, 09:09:37	System configuration - Changing the user's password			Sysroot		
12.09.2018, 09:08:25	User's log in			Sysroot		
12.09.2018, 09:08:24	User's log out			Sysroot		
12.09.2018, 09:08:11	User's log in error			Wojtek		
12.09.2018, 09:08:07	User's log in error			Wojtek		
12.09.2018, 09:08:04	User's log in error			Wojtek		
12.09.2018, 09:07:52	User's log in error			Sysroot		
12.09.2018, 09:07:43	User's log in error			Sysroot		
12.09.2018, 09:07:42	User's log in error			Sysroot		
12.09.2018, 09:07:34	User's log in error			Wojtek		
12.09.2018, 09:07:34	User's log in error			Wojtek		
Total: >1000						

The User Logs report presents traffic within configuration changes and user logins to the system. The system records and presents when occurs:

- user login to the system (with username)
- unsuccessful attempt to log into the system (along with the username)
- user logout (including username)
- changing the system configuration (along with the type of change and username)

Reports/Events log

Actions log	Historical technical alarms	Active technical alarms	Sensors	User's log	Events log
Time	Event	Object	Details		
11.09.2018, 18:26:35	Live audio play	1. Armii Krajowej 119/121	completed operation on 0 of 1 objects .		
11.09.2018, 18:26:35	Live audio play	1. Armii Krajowej 119/121	Sysroot completed operation on 1 of 1 objects .		
11.09.2018, 18:26:35	Live audio request	1. Armii Krajowej 119/121	Sysroot completed operation on 1 of 1 objects .		
11.09.2018, 13:21:54	No WPD connection	Serwer usług nr 00	---		
11.09.2018, 13:21:54	No WPD connection	Wyniesiony punkt dostępowy nr 00	---		
11.09.2018, 13:21:51	Connected	14. Świebów 13	---		
11.09.2018, 13:21:51	Connected	15. Aleja Niepodległości 930	---		
11.09.2018, 13:21:51	Connected	13. Bitwy pod Płowcami 67C	---		
11.09.2018, 13:21:51	Connected	12. Kolberga 15	---		
11.09.2018, 13:21:51	Connected	11. Grunwaldzka 1-3	---		
11.09.2018, 13:21:51	Connected	10. Kościuszki 2	---		
11.09.2018, 13:21:51	Connected	9. Kazimierza Wielkiego 7	---		
11.09.2018, 13:21:51	Connected	8. Haffnera 55	---		
11.09.2018, 13:21:51	Connected	7. Cieszyńskiego 14	---		
11.09.2018, 13:21:51	Connected	6. Cieszyńskiego 95	---		
Total: 524					

The event log is the most comprehensive of all reports in the system. It contains all events that took place within the system and all types of peripherals connected to it.