



Alarm Controller

Installation & Operation

Instructions Manual

Ver 1.2

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1 GENERAL

Alarm Controller is a Windows application that is intended for organizations having alarm systems, and they need to monitor these systems and execute various operations such as arming, disarming, zone bypassing and more.

The supported alarm systems are FORCE and VISION, and they connect by IP communication to the center where the Alarm Controller application is installed.

The protocol used is ForceCom – a PIMA propriety protocol based on standard Contact ID events format.

2 GENERAL SYSTEM DESCRIPTION

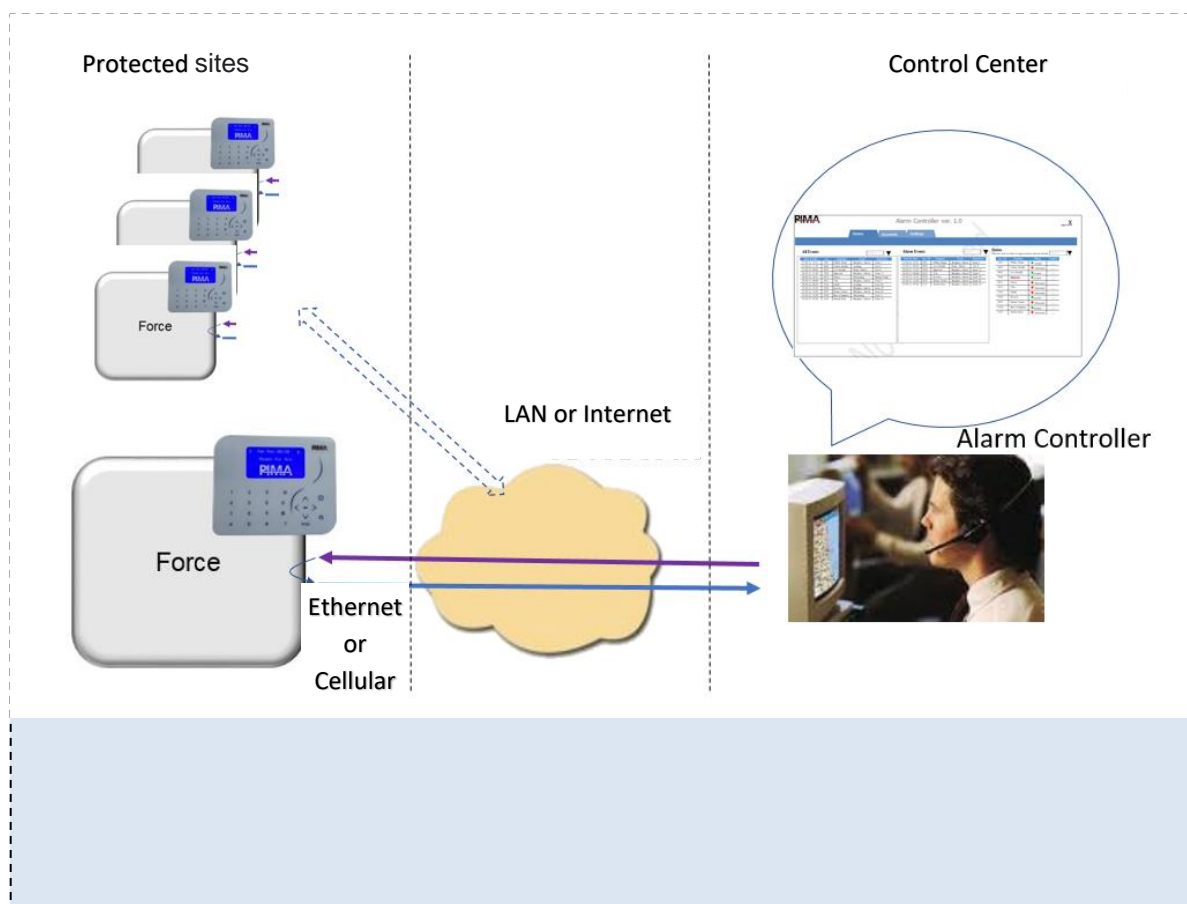


Figure 1 General System description

The alarm systems in the protected sites establish a connection with the PC running the application and report the various events in alarm over IP communication protocol. Each alarm system can communicate with its Ethernet, cellular modem, or both.

3 SPECIFICATION

1. Control of up to 400 alarm systems.
2. Communication:
 - IP – the systems connect using their Ethernet port or cellular transmitters.
 - AES 128 bit encryption.
3. Monitor:
 - Reports receiving:
 - Zone Alarm, arming/disarming, faults, panic and more.
 - Timestamp attached to each report.
 - Alarm sound for alarm report.
 - Systems' status display (Armed/Disarmed)
4. Control:
 - Arming/Disarming.
 - Outputs activation – e.g. door lock control.
 - Siren sounding stopping.
 - Zone bypassing.
5. Operating system supported – Window 7 and up.

4 INSTALLATION

The installation of the application should be done using ADMIN mode.

After receiving or downloading the installation file Alarm Controller Setup, execute it by two mouse pressing (left button).

Follow the installation instructions.

After installation completes, run the program by pressing twice on the icon that appears on the desktop screen:



Activation Required message is displayed. Press OK, and navigate to the *Settings* TAB.

If required, change the application language.

Select the *Verification Code* field, and copy the code by CNTRL+V.

8B9D14F2109216D6CBB1EF18EFC71116	קוד אימות
	קוד אקטיבציה

Send this code to PIMA sales/support, and get the activation code.

Copy the activation code using CNTRL+C.

Select the *Activation Code* field, press twice on the left button of the mouse, and paste the *Verification Code* using Cntrl+V.

Press *Enter*.

For a valid activation code, you start using the application.

5 HOME SCREEN

The Home screen is for the day-to-day usage of systems monitoring and control.

It composes of three windows: All events, Alarm events, and systems status.

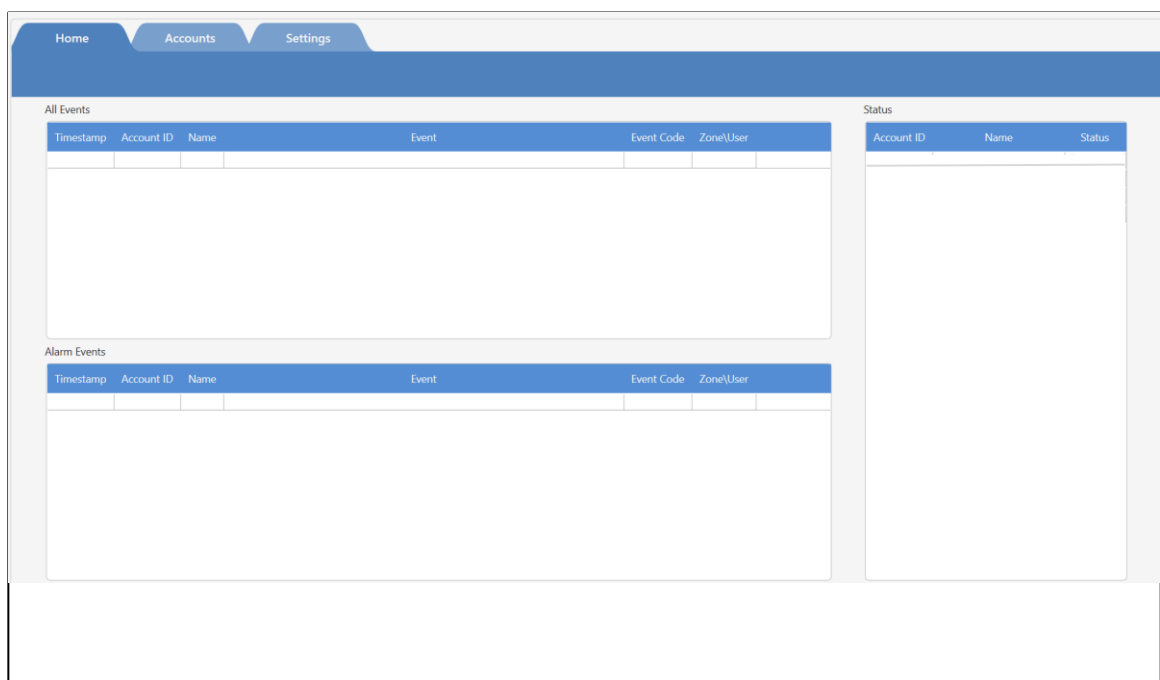


Figure 2 Home Screen

As long as no system is configured in the *Systems* tab, all three windows are empty. After entering systems in the *Systems* tab, the Home screen will look as follows:

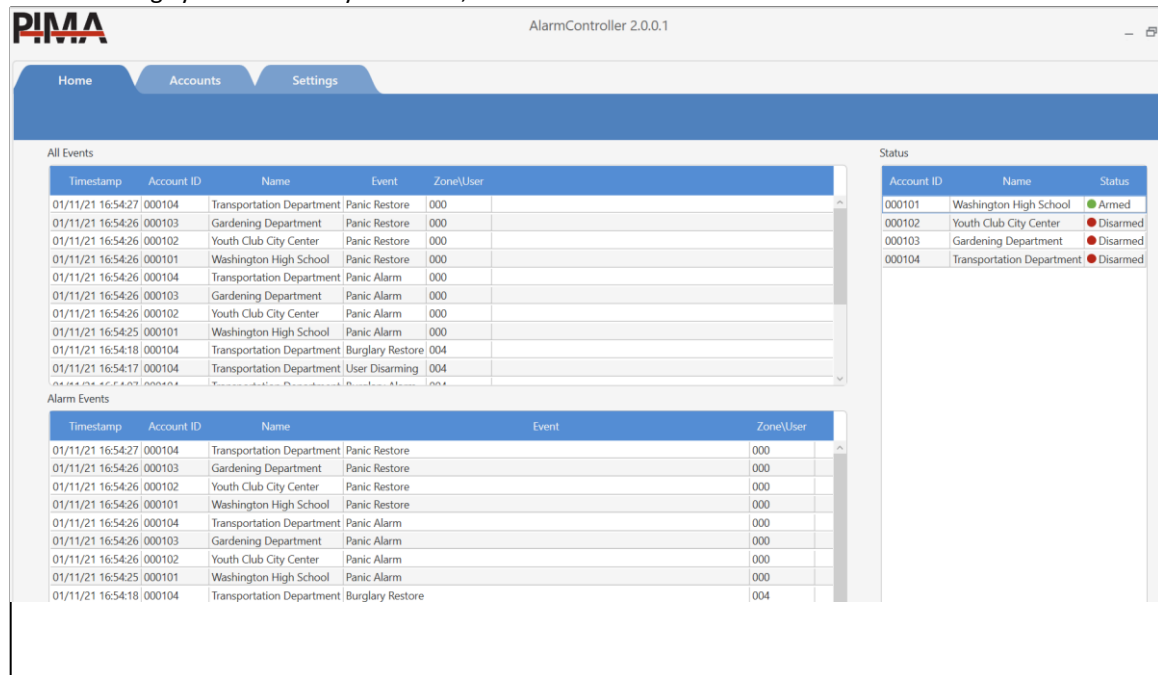


Figure 3 Home screen – systems are connected

5.1. All-Events window

In this window, all the incoming reported events are displayed.

All Events				
Timestamp	Account ID	Name	Event	Zone\User
01/11/21 16:54:27	000104	Transportation Department	Panic Restore	000
01/11/21 16:54:26	000103	Gardening Department	Panic Restore	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Restore	000
01/11/21 16:54:26	000101	Washington High School	Panic Restore	000
01/11/21 16:54:26	000104	Transportation Department	Panic Alarm	000
01/11/21 16:54:26	000103	Gardening Department	Panic Alarm	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Alarm	000
01/11/21 16:54:25	000101	Washington High School	Panic Alarm	000
01/11/21 16:54:18	000104	Transportation Department	Burglary Restore	004
01/11/21 16:54:17	000104	Transportation Department	User Disarming	004

Figure 4 All events window

Following is the description of the fields in this window:

TimeStamp – date and time at the event received in the application.

Account ID – account ID of the system (set in the alarm system)

Name – the name of the system as configured in the application for the received account ID.

Event – the event description such as arming, alarm, etc.

Zone/User – depends on the event type. For an alarm it will be the zone number that has generated the alarm; for arming/disarming event – the user number that has armed or disarmed the system.

The Contact ID code of the event (in addition to the verbal description). This option is activated in the *Settings* tab (see there). It is recommended to activate on for special tests. See Figure 5.

Timestamp	Account ID	Name	Event	Event Code	Zone\User
01/11/21 16:54:27	000104	Transportation Department	Panic Restore	120	000
01/11/21 16:54:26	000103	Gardening Department	Panic Restore	120	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Restore	120	000
01/11/21 16:54:26	000101	Washington High School	Panic Restore	120	000
01/11/21 16:54:26	000104	Transportation Department	Panic Alarm	120	000
01/11/21 16:54:26	000103	Gardening Department	Panic Alarm	120	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Alarm	120	000
01/11/21 16:54:25	000101	Washington High School	Panic Alarm	120	000
01/11/21 16:54:18	000104	Transportation Department	Burglary Restore	130	004
01/11/21 16:54:17	000104	Transportation Department	User Disarming	401	004
01/11/21 16:54:07	000104	Transportation Department	Burglary Alarm	130	004

Figure 5 All events window with CID code visible

5.2. Alarm events window

In this window, only Alarm events are displayed. By default, the zone alarm events are defined as Alarm events. You can set which zones are defined as Alarm events. In the *Settings* tab (see paragraph **Error! Reference source not found.**).

See paragraph 5.1 for the field descriptions.

Timestamp	Account ID	Name	Event	Zone\User
01/11/21 16:54:27	000104	Transportation Department	Panic Restore	000
01/11/21 16:54:26	000103	Gardening Department	Panic Restore	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Restore	000
01/11/21 16:54:26	000101	Washington High School	Panic Restore	000
01/11/21 16:54:26	000104	Transportation Department	Panic Alarm	000
01/11/21 16:54:26	000103	Gardening Department	Panic Alarm	000
01/11/21 16:54:26	000102	Youth Club City Center	Panic Alarm	000
01/11/21 16:54:25	000101	Washington High School	Panic Alarm	000
01/11/21 16:54:18	000104	Transportation Department	Burglary Restore	004
01/11/21 16:54:07	000104	Transportation Department	Burglary Alarm	004

Figure 6 Alarm events window

5.3. System status window

In this window, all the configured systems are displayed, along with their key status – armed or disarmed. In addition, this window enables systems controlling – arming, disarming, and more (see next).

Following is the description of the fields in this window:

Account ID – account ID of the system (set in the alarm system)

Name – the name of the system as configured in the application for the received account ID.

Status – the key status of the alarm system: armed or disarmed.

Account ID	Name	Status
000101	Washington High School	● Armed
000102	Youth Club City Center	● Disarmed
000103	Gardening Department	● Disarmed
000104	Transportation Department	● Disarmed

Figure 7 System status window

System status

The system status is updated according to its arming/disarming reports. After the first time that the system is connected, the status will be displayed as “unknown” until receiving an arming/disarming event.

When running the software, all the systems will be shown as *unknown* at the beginning.

System control

Arming/disarming

For system arming – press twice on the system line for changing its state: if the system is disarmed – it will be armed; if the system is armed – it will be disarmed. This operation is possible only if the status displayed for this system is not *unknown*.

The time that it will take for the command completion depends on the system configuration. If the operation mode is *always connected*, it will take a few seconds; if this option is not set – it might take up to 4 minutes (life signal interval time). During this time the status will be displayed as *Arming pending* or *Disarming pending*, depending on the command.

Zone bypassing and outputs activation

When the cursor is on the line of the required system, press the right button of the mouse. An additional window is opened, that enables zone bypassing and outputs activation. See figure Figure 8.

Note: It may take up to 20 seconds for the window to pop up, during which the application authenticates the alarm system and fetches the required data.

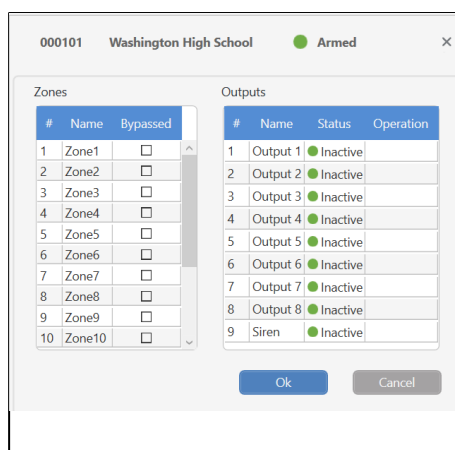


Figure 8 **Control window**

For zone bypassing – check the required zone checkbox. You can do this for several zones. After that press OK. For zone output activation – select the required operation in the *Operation* column. And then press OK.



Note: Alarm Controller supports only the *Operation Code x* ($x=1$ to 8) output types and *internal* or *external siren* types

The time that it will take for the command completion depends on the system configuration. If the operation mode is *always connected*, it will take a few seconds; if this option is not set – it might take up to 4 minutes (life signal interval time). During this time the status will be displayed as follows (example):

Armed – Control pending

6 ACCOUNTS SCREEN

In this screen, all the connected alarm systems are configured. See next figure:

#	Account ID	Name	Remote Code	Life Signal Interval (minutes)
		New Account		
1	000101	Washington High School	*****	4
2	000102	Youth Club City Center	*****	4
3	000103	Gardening Department	*****	4
4	000104	Transportation Department	*****	4

Figure 9 Accounts screen

Fields description

- the serial number of the system in the Alarm Controller application. It is set automatically by the application each time a new system is added.

Account ID – the account ID of the alarm system reporting to the Alarm Controller application. It is very important that the number set here must be identical to the account ID set in the system in its CMS configuration (CMS account ID)

Name – the name of the specific alarm system. It is advisable to choose the name of the site in which the alarm system is installed. If a name is not set – the application will automatically choose the name as its account ID.

Remote Code – User code of the alarm system. You have to choose one of the valid user codes of the alarm system. If it is required to arm/disarm only one of the system’s partitions by the application, you have to choose a user code assigned to the specific partition.

Life Signal Interval (minutes) – the interval between each life signal sent periodically by the alarm system. This parameter affects the time that the application will wait for executing the command in a not always-connected system mode.

Adding new system

Enter into the New Account field, and edit the system name, e.g. “New Hills high school”.

Edit the account ID of the alarm system as programmed in the CMS configuration parameters, e.g. 547.

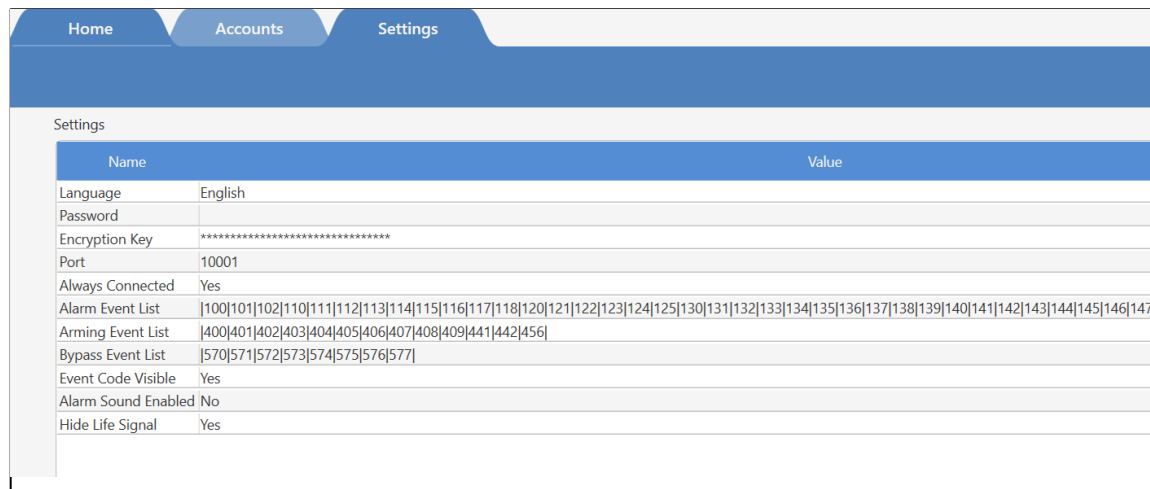
Edit the user code of the alarm system that will be used to control the system – arming, disarming, etc. set user code that is authorized by the alarm system for the various operations, taking into account partitioning if exists.

Set the Life Signal Interval time. The default value is 4 minutes. This parameter is important when working in none always- connected mode. This time will be used by the application to set the waiting time for command completion.

To delete a system – enter into the account ID field (by pressing twice on the left button of the mouse) and delete it by pressing the *Delete* key of the keyboard.

7 SETTINGS SCREEN

In this screen, you can set up the general features and preferences of the Alarm Controller application.



Name	Value
Language	English
Password	
Encryption Key	*****
Port	10001
Always Connected	Yes
Alarm Event List	[100 101 102 110 111 112 113 114 115 116 117 118 120 121 122 123 124 125 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147]
Arming Event List	[400 401 402 403 404 405 406 407 408 409 441 442 456]
Bypass Event List	[570 571 572 573 574 575 576 577]
Event Code Visible	Yes
Alarm Sound Enabled	No
Hide Life Signal	Yes

Figure 10 Settings screen

Language – the application GUI language. Select the desired language from the list.

Password – for opening the application. If you enter a password, you will need to enter it any time you are running the application.

Encryption key – the key in which the incoming reports are encrypted by the alarm system. The encryption key set in this field and in the alarm system must be identical. If the key in the alarm system has been left as the default key, do not change this field.

Port – the listening port of the application in the computer it is running. its default value is the same as the default port number in the alarm system. If the port number on the alarm system CMS parameter was not changed – leave it as is (10001).

Always-connected – the connection operation mode of the application with the alarm systems. In *always-connected* mode the systems are always connected in a TCP session with the computer, so the remote command execution time (arming, disarming...) is short – several seconds. if the parameter setting is not *always connected* then the execution time may take up to 4 minutes (life signal time interval).

Alarm Events List – CID event report codes that will appear in the *Alarm* window in the *Home* screen. If there no specific requirement – leave this field as-is.

Arming Events List - CID event report codes that will change the status of the system in the Status window in the *Home* screen. If there no specific requirement – leave this field as-is.

Event Code Visible – setting this parameter will cause the CID report code to appear in the *Events* windows. Set it only in special cases like debugging.

Alarm Sound Enabled – when set – a short alarm tone will be sound on each alarm event received.

Verification code – a code that is to be sent to PIMA sales/support for activation of the application during installation. This field appears as long as no activation has been made.

Activation Code – a code received from PIMA for activation of the application according to the purchased license. After entering a valid activation code the application will start functioning normally. This field appears as long as no activation has been made.

7.1. Partitions

The Alarm Controller application does not fully support a partitioned system, i.e. system with two partitions and up.

When a partitioned system is connected to the Alarm Controller application, the following points must be verified:

1. Each partition has its own account ID.
2. Each partition has its user code.
3. Each partition is configured as a separate alarm system in the Alarm Controller application.

4. For each alarm system, its specific user code should be configured.

System Status Display

When the system connects to the application the first time – the status of the account ID of the first partition will be displayed as follows:

- If at least one of the partitions is disarmed – the status will be shown as disarmed. In other states – it will be shown armed.
- The other partitions – 2 and up – will be shown as *Unknown*, until receiving an arming/disarming report from the specific partition (according to its account ID).

System Control

To arm or disarm a specific partition, choose the specific system in the *Status* window, i.e. the account ID of this partition.

Providing this system has been configured with user code assigned to this partition only, arming/disarming command will affect this partition only.

The same holds for zone bypassing – bypassing is possible only for zones that belong to this partition.

Same for outputs control.

8 TASKBAR ICON

Pressing on the X icon on the upper right of the application close it as other Windows application, but it continues running and receiving events.

To return to the application you should use its icon in the taskbar:

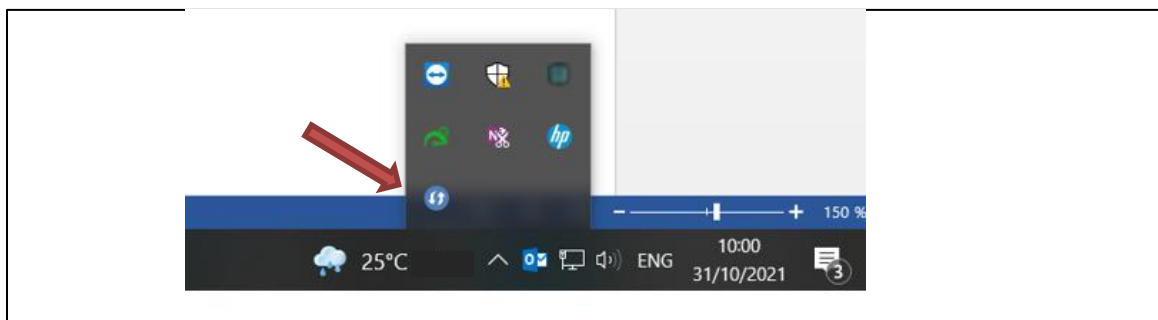
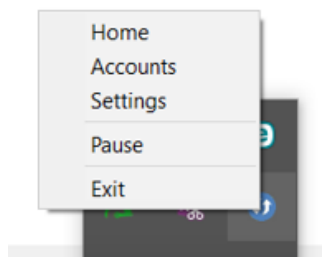


Figure 11 Application icon in the taskbar

Pressing on the right button of the mouse when pointing to the icon open the following pop-up menu:



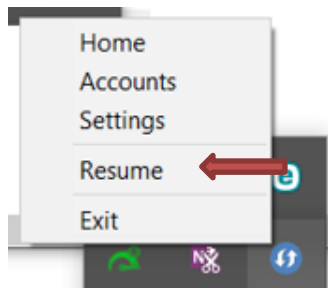
The options are:

Home – enter into the *Home* screen of the application

Account - enter into the *Account* screen of the application

Settings - enter into the *Settings* screen of the application

Pause – pausing the application running – events are not received. After choosing this option this line will be replaced by *Resume*:



Resume – Application starts receiving events, but the status of the systems will be shown “Unknown” until receiving the appropriate report.

Exit – closing the application