Monitoring station

STAM-2 / STAM-2 PRO

EN

Firmware version 2.3

CE

stam2_en 08/23

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STAM-2 BS

Program STAM-2
(licencja na 3 stanowiska),
sprzętowy klucz zabezpieczający

STAM-2 software
(3 workstations license),
protection dongle

STAM-2 BE

Zestaw: Karta STAM-1 PE,
Program STAM-2
(licencja na 3 stanowiska),
sprzętowy klucz zabezpieczający

Hardware bundle: STAM-1 PE
receiver card, STAM-2 software
(3 workstations license),
protection dongle

STAM-2 BT

Zestaw: Karta STAM-1 P,
Program STAM-2
(licencja na 3 stanowiska),
sprzętowy klucz zabezpieczający

Hardware bundle: STAM-1 P
receiver card, STAM-2 software
(3 workstations license),
protection dongle

The dongle number,
required to register this software with the Manufacturer:

Minimum hardware requirements for the monitoring station server:

- operating system: Microsoft Windows XP or higher
- free PCI slot (possibility to use the STAM-BOX case if no slots are available)
- free serial COM port (for connecting cards)
- free USB port (for protection dongle support)

Minimum hardware requirements for the monitoring station client:

- operating system: Microsoft Windows XP or higher

SATEL aims to continually improve the quality of its products, which may result in changes in their technical specifications and software. Current information about the changes being introduced is available on our website.
Please visit us at:
https://support.satel.pl

The following symbols may be used in this manual:

- note,
- caution.

CONTENTS

The STAM-2 is an advanced solution offered to the companies engaged in the business of monitoring signals derived from security alarm systems. It is available in two variants: basic – STAM-2 BASIC, and extended – STAM-2 PRO. This manual covers both variants of the program.

The STAM-2 monitoring station consists from cards installed in the computer, as well as software which enables management of the signals received by modules. It is possible to receive transmissions sent through telephone line, Ethernet (TCP/IP) or cellular (SMS and CLIP) networks. The STAM-2 Server and STAM-2 Client programs work in the WINDOWS environment as client-server applications. They enable incoming events to be handled by several operators on several workstations.

Depending on the program version, the STAM-2 Client program can be installed on 3 computers (STAM-2 BASIC version) or on 10 computers (STAM-2 PRO version).

Some features in the STAM-2 PRO program are only available, when the ETHM-1 Plus / ETHM-1 module is connected to the alarm control panel.

1. Monitoring station features

Monitoring

- Automatic recognition of one of the following transmission formats:
  - Silent Knight, Ademco slow (10 BPS),
  - Sescoa, Franklin, DCI, Vertex (20 BPS),
  - Silent Knight fast,
  - Radionics 1400 Hz,
  - Radionics 2300 Hz,
  - Radionics with parity 1400 Hz,
  - Radionics with parity 2300 Hz,
  - Ademco Express,
  - Silent Knight, Ademco slow – extended,
  - Sescoa, Franklin, DCI, Vertex – extended,
  - Silent Knight fast – extended,
  - Radionics 1400 Hz – extended,
  - Radionics 2300 Hz – extended,
  - Contact ID (CID),
  - SIA (telephone cards version 3.00 and higher; Ethernet cards version 3.01 and higher).
- Receiving data transmissions sent via telephone line, Ethernet network (TCP/IP) or cellular network (SMS, CLIP).

Messaging

- Notification of situations which require intervention:
  - alarms,
  - troubles (including lack of test transmission or transmission at wrong time),
  - verifications of the site status (armed, disarmed).
- Notification of the supervised sites status:
  - alarm reporting systems,
  - trouble reporting systems – possible verification of troubles occurring in the system,

  - armed systems – in case of bigger sites: a list of armed partitions,
  - status of communication with the systems.
- Any number of telephone numbers and e-mail addresses for notification.
- Forms of notifications:
  - icons in the main menu of the STAM-2 Client program,
  - status boards,
  - SMS messages,
  - e-mails.

Data receivers

- STAM-1 telephone and Ethernet receiver cards:
  - easy-to-install cards,
  - capability to add more cards.
- SATEL's GSM communication modules.
- VISONIC RC-4000, VIRGO, MESSER and Sur-Gard (MLR2) radio receivers.
- Modems.

Communication

- Encrypted communication between the STAM-2 Server and STAM-2 Client programs.

Configuration

- User-friendly STAM-2 software, working in WINDOWS environment.

Users

- 3 user types – according to status: Supervisor, Installer, Operator.
- Capability to define the program user authority levels.
- Simplified work of the monitoring station program operator:
  - selection of intervention requiring events
  - list of program user required actions
  - storing program user reactions in memory
  - reminder of unhandled events
- Saving major operations of the system users into event log.
- Internal communication between users based on a system of notes:
  - information exchange between users
  - defined validity period
  - automatic display option

Events handling

- Capability to handle incoming events by several operators on a number of workstations.
- Option of smart distribution of events between the workstations.
- Option to display event handling window at all workstations simultaneously.
- Capability to handle events repeatedly.
- Control of the number of events received from the sites.
- Extended event handling menu.
- Extended event filtering.

- Capability to manage event filters.
- Capability to define actions that the operator can perform while handling events.
- Capability to add comments to the actions.
- Capability of fast event handling.
- Capability to archive events, also to an external file, with the option to permanently delete events from database.

Control

- Remote control of the site status using the virtual keypad [only STAM-2 PRO].
- Capability to specify the telephone numbers for SMS control.

Subscribers

- Capability to handle any number of subscribers:
  - in the simple mode (no control of communication with the subscriber),
  - in the extended mode (with control of communication with the subscriber).
- Detailed subscribers' data:
  - up to a dozen or so identifiers of different types,
  - any number of plans (JPG, JPEG or PNG files),
  - decode tables (each code meaning and event description),
  - priority differentiation – order of reporting events which require intervention when events are incoming simultaneously from many subscribers,
  - patterns of action in case of events which require intervention in partition – up to 5 items.
- Capability to restore deleted subscribers.
- Capability to send SMS or e-mail notifications.
- Capability to assign shortcuts to camera footage, programs, applications, etc.
- Capability to assign subscriber accounts and their operator to regions defined in the system.

Work in conjunction with INTEGRA / INTEGRA Plus control panels

- Messaging via cellular network.
- Remote administration of the alarm system using the GUARDX program [only STAM-2 PRO].

Event log

- Events stored in the database.
- Number of events depends on the storage space of the disk where the STAM-2 Server program is installed.

Additional features

- Backup copy made automatically at a set time.
- Capability to create an auxiliary database.
- Monitoring station data stored in an encrypted database file.
- Capability to use the STAM-VIEW interface.
- State diagnostics of database, default partitions, regions, events and card usage.
- Capability to view the image sequences sent by the Viver module.

- Detecting telephone line defect (telephone receiver cards), no network cable or communication with Ethernet module (Ethernet receiver cards).
- Capability to create detailed site plans [only STAM-2 PRO].
- Capability to use a map for presentation of the site status [only STAM-2 PRO].
- Printing documentation regarding subscribers, reports for subscribers, reports on program users and station system in PDF format.
- Capability to archive reports.
- Selection of language version for STAM-2 Server and STAM-2 Client program.

Firmware update

- STAM-2 Server and STAM-2 Client programs updated locally.
- No need to remove the installed cards in order to update their firmware.

2. Data receivers

Examples of data receivers:

- STAM-1 cards:
  - telephone (STAM-1 P / STAM-1 R / STAM-1 K),
  - Ethernet (STAM-1 PE / STAM-1 RE),
- SATEL's GSM modules (GSM-X / GSM-X LTE / GSM-5 / GSM-4 / GSM LT-2 / GSM LT-1),
- radio receivers (VISONIC RC-4000 / VIRGO / MESSER / Sur-Gard (MLR2)),
- modems.

You can install a total of 19 receivers in the monitoring station. The base STAM-1 card must be one of them. 16 addresses are intended for receivers of any type (addresses from 0 to 15). The addresses labelled as Ex1, Ex2 and Ex3 are intended only for the GSM modules, radio receivers and modems.

The data receivers are used to organize a supervision center that monitors the status of alarm systems.

2.1 STAM-1 cards

The card is a complete receiver of data sent by the control panels.

SATEL offers the following cards:

STAM-1 P – base telephone receiver card (available also in STAM-2 BT bundle),

STAM-1 R – expansion telephone receiver card,

STAM-1 K – expansion telephone termination receiver card for connecting mimic boards,

STAM-1 PE – base Ethernet receiver card (available also in STAM-2 BE bundle),

STAM-1 RE – expansion Ethernet receiver card.

The card selection depends on what method of data transmission is used. The cards can be connected with each other, which enables the monitoring station to support different transmission methods and increase the number of supported telephone lines / IP addresses. The STAM-2 monitoring station may comprise up to 16 interconnected cards (base receiver card and 15 expansion receiver cards of various types) with addresses from 0 to 15.

2.1.1 Telephone receiver cards

To each telephone receiver card you can connect one telephone line. By doing so, you assign one telephone number to the monitoring station.

To the STAM-1 K card you can connect the STAM-1 PTSA mimic boards. They visualize the status of the monitored sites by means of LED indicators. One mimic board indicates the status of 64 sites. If you want to increase the number of indicated sites, you must connect additional mimic boards. You can use a total of 63 mimic boards. This means you can receive status information of 4032 sites.

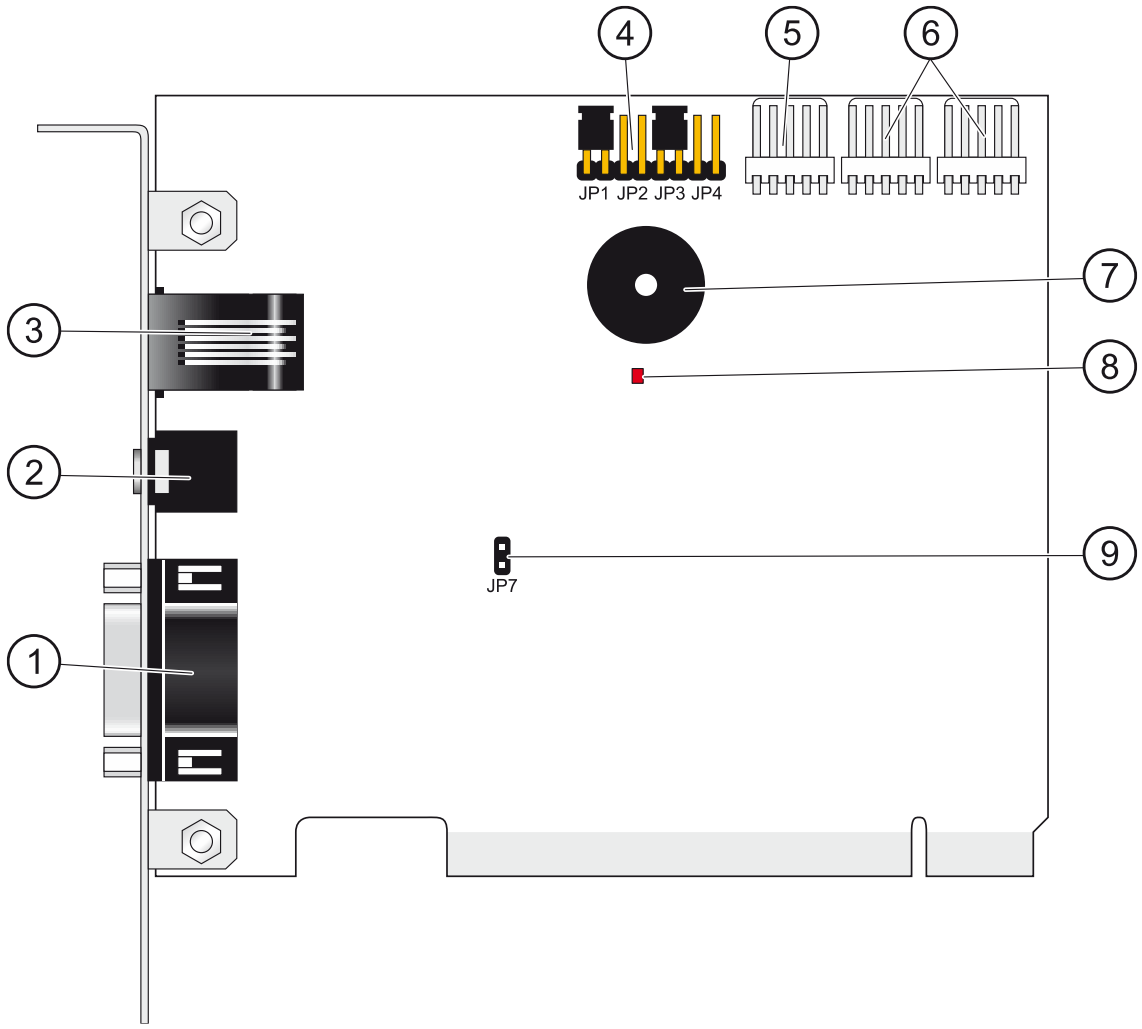

Fig. 1. View of STAM-1 P card. STAM-1 R card has no DB-9 connector. STAM-1 K card includes a DB-9 connector used to connect the mimic board.

Explanations for Fig. 1:

(1) DB-9 socket (RS-232 port) to connect the card to the computer COM port.

(2) mini-jack socket to connect a high-resistance loudspeaker or headset in order to listen in on the telephone line / make it possible to listen in on the telephone line.

(3) RJ-11 socket to connect telephone line.

(4) card address setting pins (see: “Addressing cards”).

(5) connector to connect additional control signaling.

(6) connectors to connect expansion receiver cards (RS-232 port and sound for telephone receiver cards).

(7) JP5 pins to restore the factory settings (see: “Resetting the telephone receiver card to factory settings”).

(8) LED indicator:

flashing – card working properly,
ON – phone is off-hook.

(9) buzzer.

(10) JP7 pins to enable / disable listening-in on the telephone line.

Set a jumper across the JP7 pins only if the card is to be used to listen in on the telephone line. Only one jumper can be set on one card in the whole set of cards. The headset socket will be active on this card only.

(11) lithium battery (CR2032 3 V) to provide backup to the clock.

2.1.1.1 Resetting the telephone receiver card to factory settings

1. Power off the card.
2. Set a jumper across the JP5 pins.
3. Power on the card. The card’s factory settings will be restored and the event log will be cleared.
4. Power off the card.
5. Remove the jumper.
6. Power on the card.

2.1.2 Ethernet receiver cards

With each Ethernet card you can assign one IP address to the monitoring station.

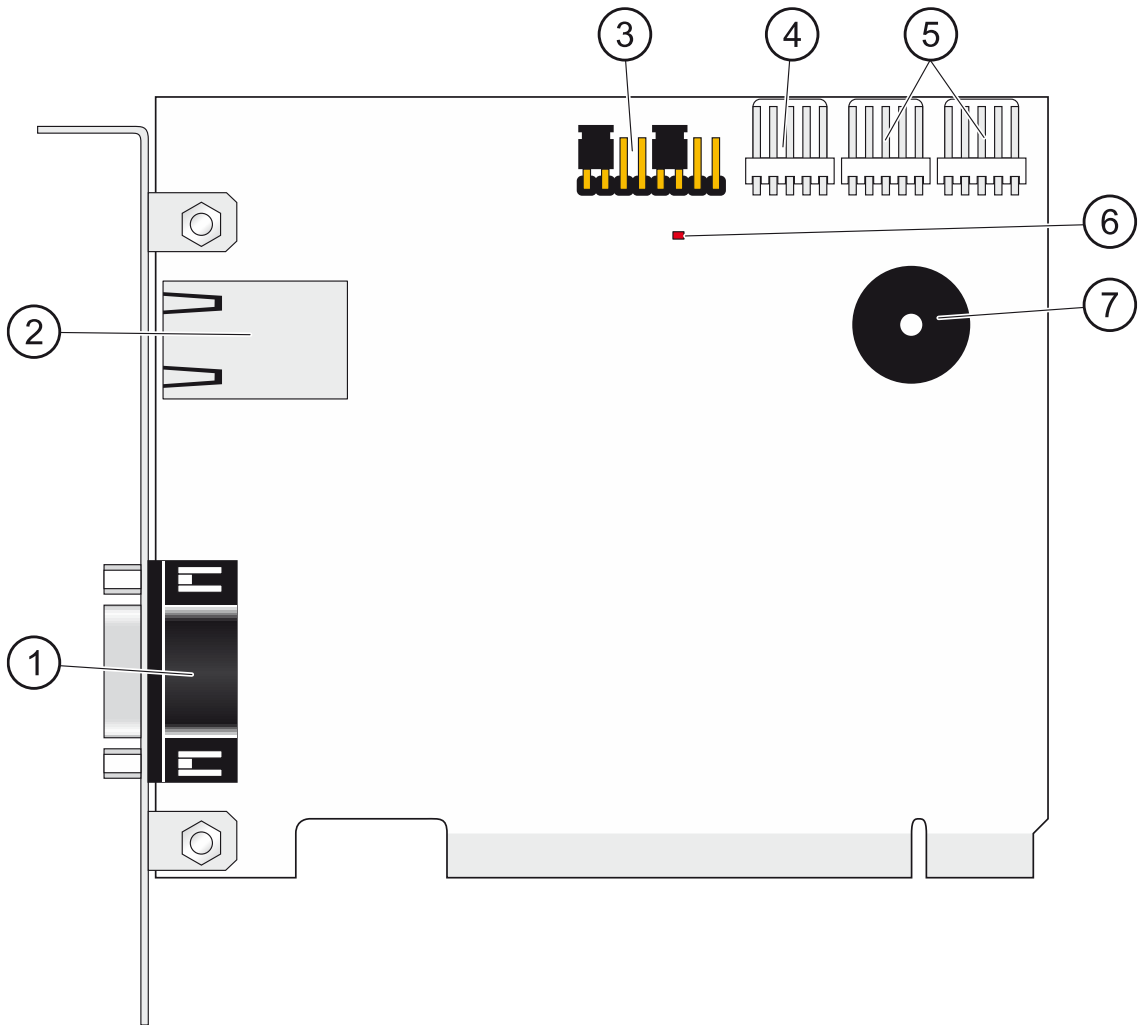

Fig. 2. View of STAM-1 PE card. STAM-1 RE card has no DB-9 connector to connect to the computer COM port.

Explanations for Fig. 2:

1. DB-9 socket (RS-232 port) to connect the card to the computer COM port.
2. RJ-45 socket to connect the Ethernet network.
3. JP5 pins to restore the factory settings (see: “Resetting the Ethernet receiver card to factory settings”).
4. card address setting pins (see: “Addressing cards”).
5. connector to connect additional control signaling.
6. connectors to connect expansion receiver cards (RS-232 port and sound for telephone receiver cards).
7. LED indicator:

   ON – card working properly,

   flashing – restoring the factory settings has started.
8. buzzer.

2.1.2.1 Resetting the Ethernet receiver card to factory settings

1. Power off the card.
2. Set a jumper across the JP5 pins.
3. Power on the card.
4. When the LED starts flashing every 2.5 seconds, remove the jumper. The card's factory setting will be restored and the event log will be cleared.

2.2 GSM modules

The STAM-2 program, version 2.3 or newer, can handle events received by the GSM module only when:

- GSM module firmware is up to date (check for updates at www.satel.pl),
- in the GSM LT-1, GSM LT-2, GSM-4 and GSM-5 modules, the "Fax/modem" option is enabled and the data transfer rate of the RS-232 port is set to 19 200 bps,
- in the GSM-X / GSM-X LTE module, the „INTEGRA / STAM-2 / Data Forwarding" option is enabled and the "AT commands" option is disabled.

Each GSM module provides 1 telephone number to which events can be sent (SMS / CLIP).

2.3 Other receivers

For details on how to set the receivers and modems, refer to the manuals included with the devices.

3. Addressing receivers

An address must be set for or assigned to each receiver. Each address must be different. The addresses from 0 to 15 are intended for receivers of any type. The Ex1, Ex2 and Ex3 addresses are intended only for the GSM modules, radio receivers and modems.

3.1 Addressing cards

To set an address, set jumpers across the JP1 – JP4 pins on the card's board (see: Fig. 1 and 2). The pins have numbers assigned to them. When the jumper is removed, the number is 0. The numbers assigned to the pins when the jumper is on are presented in table 1. The sum of these numbers is the address set.

Each card address must be different.

Pins	JP1	JP2	JP3	JP4
Numerical value (after setting the jumper)	**1**	**2**	**4**	**8**

Table 1.

3.2 Addressing other receivers

The GSM modules, radio receivers and modems must have addresses assigned to them.

1. Open the "Configuration" window.
2. In the "Cards" tab, set the device address by selecting any available address.
3. Select the COM port to which the device is connected.
4. Select the device type.
5. Click the "Apply" button.

4. Installing receivers

4.1 Installing STAM-1 receiver cards

Prior to installation of a card in the computer, disconnect the computer from the source of power supply.

The STAM-1 PE (Ethernet receiver base card) and STAM-1 RE (Ethernet receiver expansion card) are dedicated devices designed for work in the local computer networks (LAN). They cannot be connected directly to the public computer networks (MAN, WAN). Connection to the public networks should be effected via a router or xDSL modem.

You can install the telephone / Ethernet receiver card on board of any PC computer in the PCI slot. The card is only supplied from the computer with +12 V and the RESET signal.

The card works also when it is disconnected from the computer. In this case, a +12…15 V power must be provided to the card. The RESET signal is not required then.

4.1.1 Installing a base card

1. Set the card address (see: “Addressing cards”).
2. Open the computer case.
3. Install the card in PCI slot.
4. Close the computer case.
5. Using the cable included in the bundle, connect the card DB-9 connector to the computer serial COM port.
6. Connect the telephone line (STAM-1 P card) or network cable (STAM-1 PE card) to the card socket.

4.1.2 Installing an expansion card

1. Set the card address (see: “Addressing cards”).
2. Open the computer case.
3. Install the card in PCI slot.
4. Using the cable delivered with the expansion card, connect the card to the base receiver card or another expansion card.
5. Close the computer case.
6. Connect the telephone line (STAM-1 R and STAM-1 K cards) or network cable (STAM-1 RE card), or, optionally, the mimic board (STAM-1 K card) to the extension card.

If you want to install the card outside the computer, proceed in the same way as described above, but skip the steps for installing the card in the computer PCI slot.

4.2 Installing other receivers

For details on how to install the GSM modules, radio receivers and modems, refer to the manuals included with the devices.

5. STAM-2 program installation

To install the program that supports the STAM-2 monitoring station, you will need the installation files for the STAM-2 Server and STAM-2 Client programs and the protection dongle.

5.1 Installation of STAM-2 Server program

Download the STAM-2 Server program from www.satel.pl

Required program version: 2.3.

Install the program on a computer with the STAM-1 P or STAM-1 PE card connected.

Run the installation file as administrator.

Before you start the installation, prepare the protection dongle. You will need it to install the program correctly.

1. Run the STAM-2 Server installation file and follow the instructions.
2. Insert the dongle into the computer USB port when appropriate instructions are displayed.
3. Read and accept the terms of the license agreement.
4. Click “Next” or indicate the folder in which the program is to be installed.
5. You will be asked if you want to import the STAM-1 database:
   – if you want to import the STAM-1 database, check the “I have STAM-1 installed and want to import data from it” option (Fig. 3) and click “Next”,
   – if you do not want to import the STAM-1 database, click “Next”.

Remember that the STAM-1 monitoring station database can only be imported during the STAM-2 Server program installation.

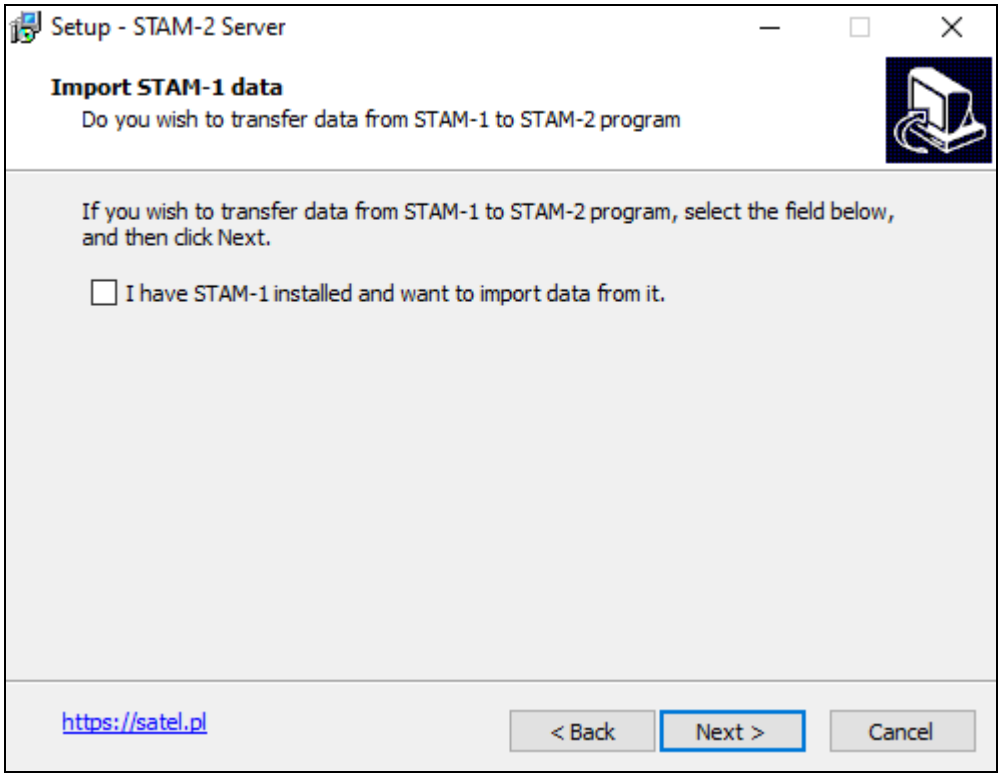

Fig. 3. Importing STAM-1 program data.

6. Follow the instructions.
7. You will be asked if you want to register the program:
   – if you select “I wish to register now through the webpage”, you will be redirected to a webpage (see: “Registration of the STAM-2 monitoring station”),

– if you select “I will register later”, register the program within the specified time limit (see: “Registration of the STAM-2 monitoring station”).

8. The program installation will be completed.

5.1.1 Protection dongle

To install the STAM-2 Server program you will need the protection dongle. Remember that it must remain in the USB port after the program is installed. If the dongle is removed for more than 30 minutes, it will be unregistered. The program’s functionality will also be limited. You will not be able to edit the subscribers and user accounts, make reports and configure the settings of the computer on which the STAM-2 Server program is installed. The program will stop working 2 weeks after the dongle is unregistered.

Contact the SATEL technical team if the protection dongle is damaged, lost or stolen. You may be charged for the cost of the new dongle.

5.2 Installation of STAM-2 Client program

Download the STAM-2 Client program from www.satel.pl

Required program version: 2.3.

You can install the program on the same computer as the STAM-2 Server program.

Run the installation file as administrator.

Depending on the license you have, you can install the STAM-2 Client program on 3 or 10 workstations.

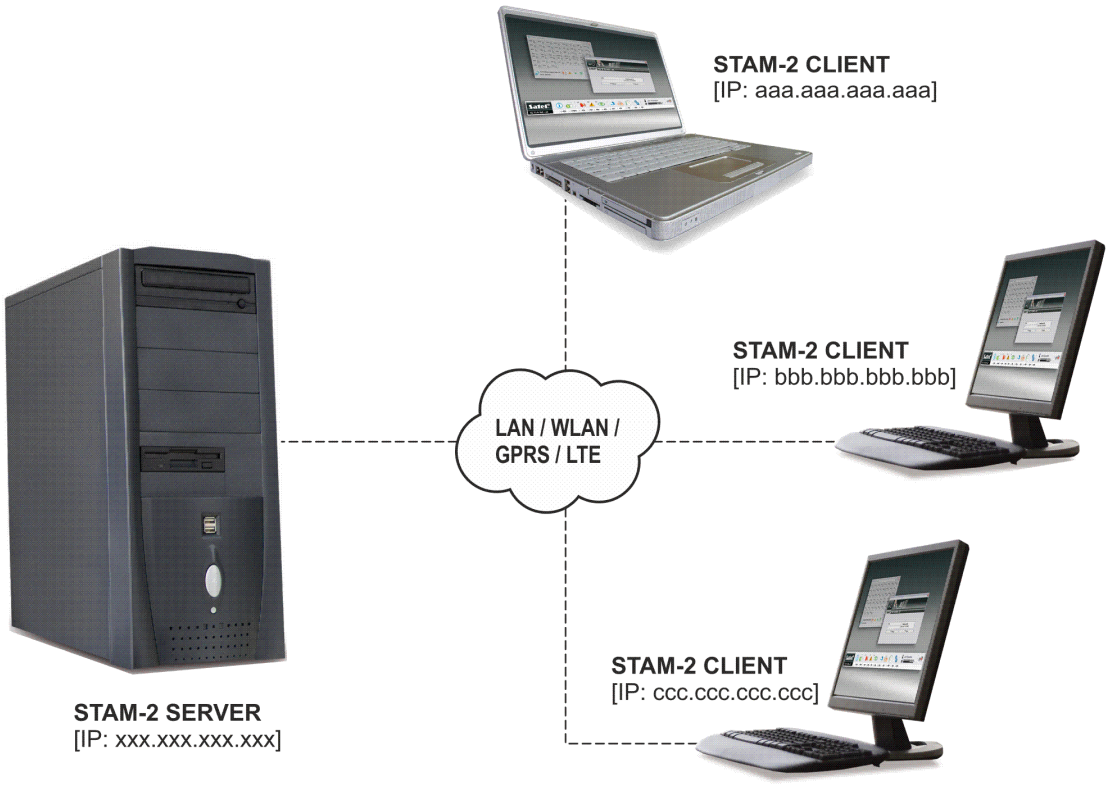

Fig.4. Example of configuration of the STAM-2 monitoring station.

1. Run the STAM-2 Client installation program and follow the instructions.
2. Read and accept the terms of the license agreement.
3. Click „Next” or indicate the folder in which the program is to be installed.
4. Follow the instructions until the installation is completed.

Version 8 of the Java environment is required to run the STAM-2 Client program. Download the correct version of the Java Virtual Machine from the web and install it on the computer.

6. Registration of the STAM-2 monitoring station

Register the STAM-2 monitoring station within 31 days since the installation of the STAM-2 Server program. After this time, the program will stop working. Register the monitoring station in the SATEL license management service.

You can do it during the STAM-2 Server program installation. You will then be automatically redirected to the registration page. If you prefer to register at a later date, save the following address in your web browser: **www.stam2.satel.pl**

1. Fill in the required fields in the registration form and click “Register”.
2. The confirmation of registration and the summary of data entered in the form will be displayed.
3. You will receive an additional confirmation and a link to the license file via e-mail. The message will be sent to the address you entered in the form.
4. Open the message and click “Download the license file”.
5. Unpack and run the file on the computer with the STAM-2 Server program installed.
6. Follow the instructions.

7. Using the STAM-2 program

The STAM-2 Server program is started automatically after logging in to the operating system.

If the STAM-2 Server program fails to find the STAM-1 P or STAM-1 PE card within several minutes since startup, the program will shut down.

The STAM-2 Client program is used to operate and configure the STAM-2 monitoring station.

7.1 Login window

The login window will be displayed after the STAM-2 Client is started (Fig. 5).

User – username.

Password – user password.

Log in – click to log in.

[server] – name and address of the server (i.e. the computer on which the STAM-2 Server program is installed).

Edit – click to open the “Servers” window.

Close – click to close the login window.

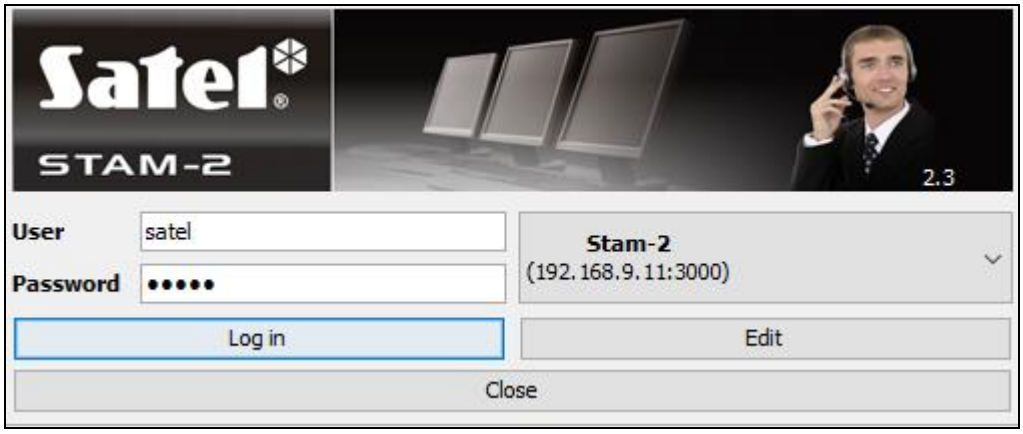

Fig. 5. The login window after the start of STAM-2 Client.

7.1.1 First-time start of the STAM-2 Client program

When the program is started for the first time, use the default settings to log in:

- user: satel
- password: satel

Change the default password as soon as possible.

If the STAM-2 Client program is installed on the same computer as the STAM-2 Server program, enter the password and click “Log in”.

If the STAM-2 Client program is installed on a different computer than the STAM-2 Server program, do the following:

1. Click “Edit” and configure the server settings (see: “Editing the server settings”).
2. Click on the drop-down menu symbol and select the server which the STAM-2 Client program is to connect to.
3. Enter the password and click “Log in”.

7.1.2 “Servers” window

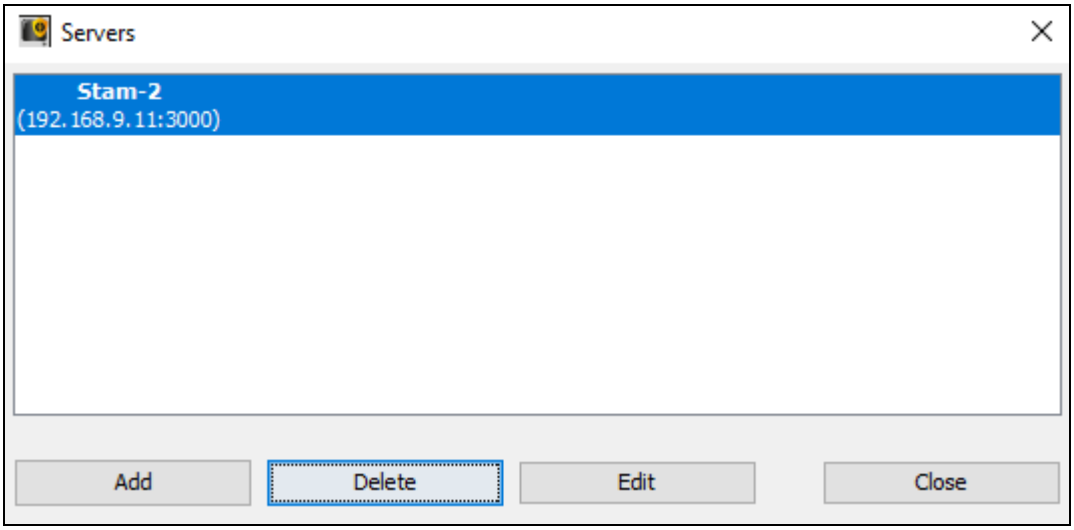

Fig. 6. The “Servers” window after the first-time start of the program.

[Servers list] – list of computers on which the STAM-2 Server program is installed. You can define any number of servers. By default: “Stam-2” server.

Add – click to add a server (see: “Adding a new server”).

Delete – click to delete the selected server.

Edit – click to edit the settings of the selected server (see: “Editing the server settings”).

Close – click to close the window.

7.1.2.1 “Server” window

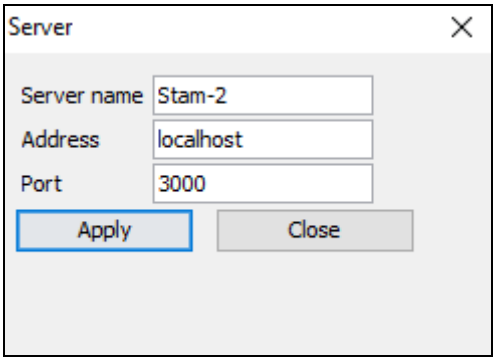

Fig. 7. The “Server” window with “Stam-2” server default settings.

Server name – name of the computer with the STAM-2 Server program installed.

Address – network address of the computer on which the STAM-2 Server program is installed. You can enter the IP address or domain name.

Port – port used for communication.

Apply – click to save the changes made.

Close – click to close the window.

7.1.3 Editing the server settings

1. In the login window, click “Edit”. The “Servers” window will be displayed.
2. Click on the server name, then click “Edit”. The “Server” window will be displayed.
3. If you want to change the server name, enter the new name.
4. If you want to change the address of the computer on which the STAM-2 Server is installed, enter the new address.
5. If you want to change the port used for communication with the server, enter the new port.
6. Click “Apply”. The “Server” window will close.
7. Click “Close”. The “Servers” window will close.

7.1.4 Adding a new server

1. In the login window, click “Edit”. The “Servers” window will be displayed.
2. Click “Add”. The “Server” window will be displayed.
3. Enter the server name.
4. Enter the address of the computer on which the STAM-2 Server is installed.
5. Enter the number of the port to be used for communication with the server.
6. Click “Apply”. The “Server” window will close.
7. Click “Close”. The “Servers” window will close.

7.2 Main window of the STAM-2 Client program

After login procedure, the main window of the program will open.

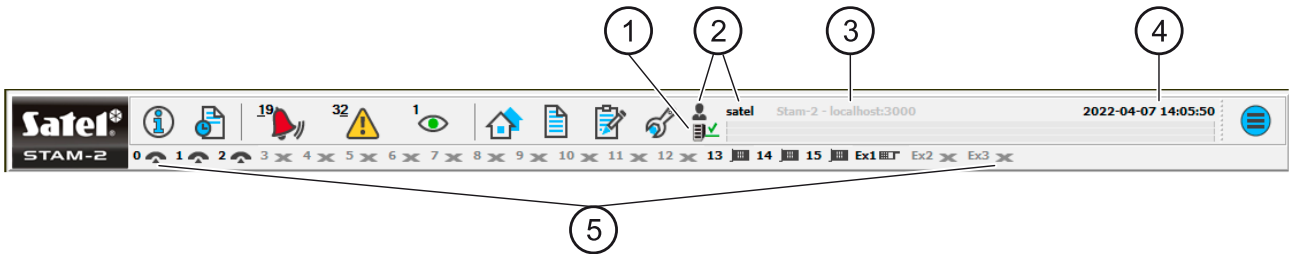

Fig. 8. Main window of the STAM-2 Client program.

1. Icons to indicate the connection status between the STAM-2 Client and STAM-2 Server programs:
   - – communication OK,
   - – communication interrupted.
2. – Name of the user currently logged in.
3. Information about the computer with the STAM-2 Server program installed.
4. Current date and time.
5. Icons to illustrate the devices supported by the monitoring station: telephone / Ethernet receiver cards, radio stations, modems and GSM modules supported by the STAM-2 Server program. They can be designated with numbers from 0 to 15 and symbols Ex1, Ex2 and Ex3 (the symbols are only used to designate radio stations, modems and GSM modules). These characters correspond to the address of the card or device supported by the STAM-2 Server program. The icons have the following meaning:
   - – telephone card is working properly,
   - – telephone card is receiving ring signal or is being configured,
   - – telephone card has established connection with control panel,
   - – telephone card is receiving data,
   - – no telephone card, or trouble (to check the trouble details, refer to the “Event log” window),
   - – GSM module is working properly,
   - – GSM module is receiving data (SMS or CLIP type message),
   - – no GSM module, or trouble (to check the trouble details, refer to the “Event log” window),
   - – Ethernet card is working properly,
   - – Ethernet card is being configured,
   - – no Ethernet card, or trouble (to check the trouble details, refer to the “Event log” window),
   - – radio station is working properly,
   - – no radio station or trouble (for details of the trouble, check the "Event log" window),
   - – no card / device has been defined for the given address.

   Click on the icon of card / station / module to open a window with information on the particular device, the port to which it is connected and its current status (see: “Telephone receiver card” and “Ethernet receiver card”). If the GSM module is connected, the level of signal received by GSM antenna is also displayed.

Buttons

	Click to display the following information: – dongle number, – license number, – owner name, – license expiration date, – STAM-2 Server and STAM-2 Client program versions, – database version, – number of workstations, – license type, – program developer.
	**Status board** (Alt+T) – click / press Alt+T to open a window where the status of supervised sites can be checked (alarms, troubles, arm statuses, test transmissions). The window is available to all users.
	**Event log** (Alt+H) – click / press Alt+H to open the event log window. The window is available to users with the “viewing” authority level.
	**Handle alarms** (Alt+1) – the icon is active when there are unhandled alarms. The number at the icon shows how many alarms are still unhandled by the user. Click / press Alt+1 to open the "Alarm" tab in the "Event log" window. Available to users with the “handling” authority level.
	**Handle troubles** (Alt+2) – the icon is active when there are unhandled troubles. The number at the icon shows how many troubles are still unhandled by the user. Click / press Alt+2 to open the "Troubles" tab in the "Event log" window. Available to users with the “handling” authority level.
	**Handle arm status events** (Alt+3) – the icon is active when there are unhandled arm status events. The number at the icon shows how many arm status events are still unhandled by the user. Click / press Alt+3 to open the "Wrong arm status" tab in the "Event log" window. Available to users with the “handling” authority level.
	**Subscribers** (Alt+A) – click / press Alt+A to open the window where you can, depending on your authority level, view the list of current subscribers, edit the current subscribers, add new subscribers or remove the existing ones. The window is available to all users.
	**Reports and documentation** (Alt+R) – click / press Alt+R to open the window where the print function is available for printing documentation regarding subscribers, subscriber's reports, reports on program users and station system in PDF format. The window is available to all users, but the scope of possible operations depends on the granted authority level.
	**Notes** (Alt+N) – click / press Alt+N to open the window where you can view notes created by other users or prepare notes for other user. Available to all users.
	**Configuration** (Alt+K) – click / press Alt+K to open the menu with the following functions: **Configure server** (Alt+K) – the function intended to define the cards and

other devices (GSM modules, VISONIC RC-4000 radio stations) supported by the STAM-2 Server program. Available to users with the “server configuration ” authority level.

User accounts (Alt+E) – the function makes it possible to view the list of program users, add new users, edit and/or remove the existing ones. Available to users with the “user accounts” authority level.

Change password (Alt+P) – the function allows the currently logged in user to change the code of access to the STAM-2 program. Available to all users. It is recommended that each new user change his/her password so that the supervisor may not know the user password.

Mimic boards (Alt+S) – the function makes it possible to define the lighting mode of LEDs in the mimic boards interfacing with the monitoring station. Available to users with the “mimic boards” authority level.

Regions – the function allows you to view the list of defined regions, edit or delete them or add new regions. Available to users with the “areas management” authority level.

Notifications – the function allows you to define: the way to send messages – text, control and e-mail, the template messages – text and control, and the global phone book. Available to all users.

Click / press Alt+X to open the menu with the following commands:

Help – click to open the “Stam-2 Help” window.

Log out user (Alt+L) – click to log out the current user to log in another user.

Minimize (Alt+M) – click to minimize the main window of the STAM-2 Client program.

Close (Alt+X) – click to close the STAM-2 Client program.

7.2.1 Telephone receiver card

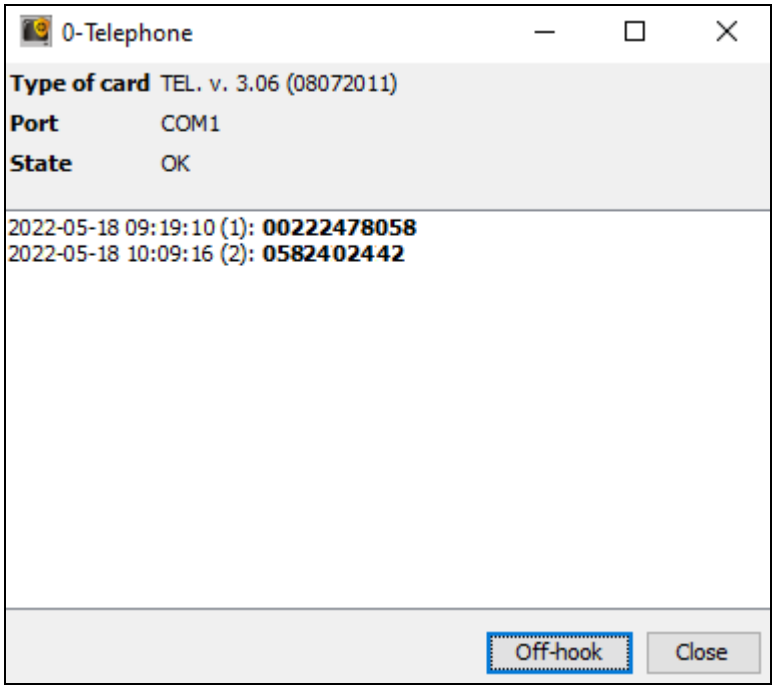

Fig. 9. Window of telephone receiver card with address 0.

Type of card – firmware version of the telephone card assigned to the given address.

Port – computer COM port to which the card is connected.

State – current card state.

[List of numbers] – last 10 telephone numbers from which the calls were received. The list contains: date and time of the call, the number of consecutive calls made from the same number on that day and the telephone number.

Off-hook – click if you want to answer the call or test the telephone line for correctness. The button is available when no connection is being made by the card.

On-hook – click if you want to disconnect the call or end the connection test. The button is available when connection is being made by the card.

Close – click to close the window.

7.2.2 Ethernet receiver card

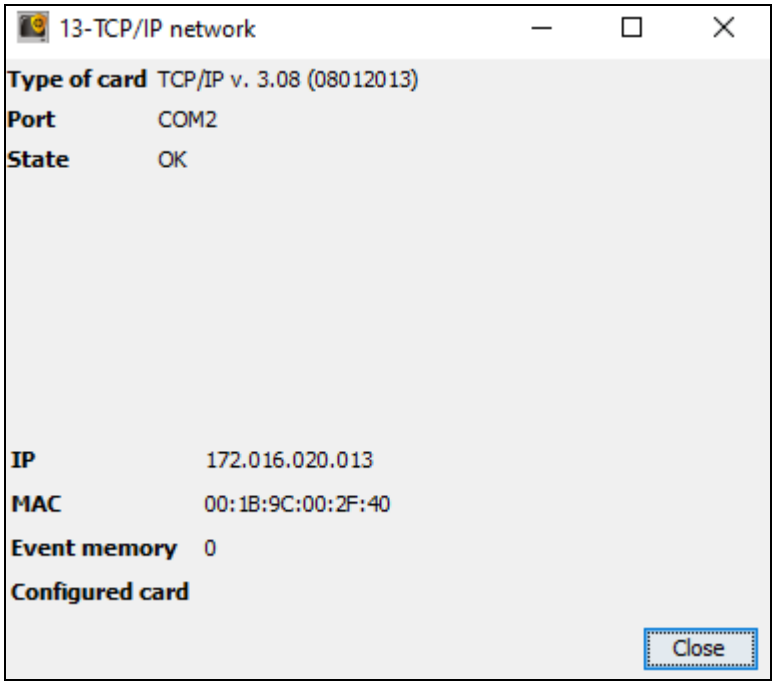

Fig. 10. Window of Ethernet card, address 14.

Type of card – firmware version of the Ethernet card assigned to the given address.

Port – computer COM port to which the card is connected.

State – current card state.

IP – Ethernet card IP address.

MAC – unique identification number of the Ethernet card.

Event memory – number of events received by the card but not yet sent to the monitoring station.

Configured card – Ethernet card configuration status. If the card is currently being configured, it displays a progress indicator for settings, including configuration, subscribers and MAC, as well as information about memory, additional card troubles or error during configuration.

Close – click to close the window.

8. Restart of the STAM-2 Server program

You can restart the STAM-2 Server program manually.

1. Right-click on the STAM-2 Server icon to open the menu.
2. Click “Exit”.
3. A window will open. Enter your login and password, then click “Close”.

9. Updating the STAM-2 monitoring station

9.1 Updating the STAM-2 program

Run the STAM-2 Server and STAM-2 Client program updates with administrator rights.

1. Start the STAM-2 Server and STAM-2 Client programs and check their versions. Close the programs.
2. Go to www.satel.pl and check the latest versions of the programs. If newer versions are available, download and save the files on you disk.
3. In case of any trouble, prepare a backup copy to guarantee data recovery. Copy the “Client” and “Server” folders (including their content) and move them to a safe location. The default access path is C:\Program Files\Satel\STAM-2 for 32-bit operating systems and C:\Program Files (x86)\Satel\STAM-2 for 64-bit operating systems.
4. Install the latest versions of the programs.
5. Start the programs.

9.2 Updating the STAM-1 cards software

1. Go to www.satel.pl and check the latest versions of the STAM-1 cards software. If newer versions are available, download and save the files on you disk.
2. Close the STAM-2 Server and STAM-2 Client programs.
3. Disconnect the telephone lines (STAM-1 P, STAM-1 R and STAM-1 K cards) and the network cables (STAM-1 PE and STAM-1 RE cards) so that the monitoring station does not receive any events during the software update.
4. Update the cards software.
5. Reconnect the telephone lines and the network cables to the appropriate card slots.

10. Moving the STAM-2 monitoring station software

1. On the new computer, depending on its operating system:
   – 32-bit operating system: in the “Program Files” directory on the C drive, create the “Satel” folder. Inside it, create the “SATEL-2” folder (C:\Program Files\Satel\STAM-2),
   – 64-bit operating system: in the “Program Files (x86)” directory on the C drive, create the “Satel” folder. Inside it, create the “SATEL-2” folder (C:\Program Files (x86)\Satel\STAM-2).
2. On the old computer, copy the “Client” and “Server” folders (including their content) and paste them to the newly created folder on the new computer (the default access path for 32-bit operating systems: C:\Program Files\Satel\STAM-2, for 64-bit operating systems: C:\Program Files (x86)\Satel\STAM-2).
3. Install both programs on the new computer.

When moving the data, be sure to create appropriate folders for the database backup copy and the auxiliary database on the new computer.

11. License agreement

1. SATEL Sp. z o.o., a limited liability company, having its registered office at ul. Budowalnych 66, 80-298 Gdansk, Poland, entered in the Register of Entrepreneurs kept by the District Court Gdansk-North in Gdansk, 7th Economic Department of the National Court Register (KRS), under KRS number 0000178400, NIP taxpayer number 584-015-40-38, share capital PLN 1,830,000 (hereinafter the "Licensor") hereby grants a non-exclusive, non-free and perpetual license to use the STAM program (and, in the event indicated in para 2, also to use the STAM-View additional software component), hereinafter called the "Program", supporting operation of the computer installed base receiver card of STAM-1 P or STAM-1 PE monitoring station, hereinafter called the Device, in the following fields of use:
   1.1. loading the Program into the computer memory and replicating the Program in the computer memory;
   1.2. adapting the Program, without changing its source codes, for the Licensee's hardware platform and configuration;
   1.3. using the Program according to its intended purpose for the needs of the Licensee's undertaking;
   1.4. using the Materials for the Licensee, referred to in para 12

   – however, exclusively for the use of the Device according to its intended purpose. The Program can only be used in conjunction with the Device.
2. The Licensee may, for a fee according to the Licensor's current price list, extend functionality of the STAM Program by adding the STAM-View software component to enable remote access to the STAM-2 monitoring station. The STAM-View component does not constitute a separate program and is only supported by the STAM Program in the BASIC or higher version. In case the Licensee intends to extend functionality of the STAM Program with the STAM-View software component after having purchased a license for the STAM Program without the STAM-View software component, the Licensee shall submit to the Licensor the proof of purchase of the license for the STAM-View software component together with the number of the already owned STAM-2 hardware key, and on this basis the Licensor will generate and send to the Licensee a new license code, which also includes the right to use the STAM-View software component.
3. The License shall be granted to each Owner of the Device. The granted License may not be transferred, including sub-license, lease or rental to third parties in any way, but only with transfer of the title of ownership to the Device.
4. The License is granted against payment by the Licensee of the one-time license fee, fixed on the basis of the current price-list of the Licensor.
5. The “STAM-2 Server” program may only be installed on one computer, while the “STAM-2 Client” program - on several computers, however the “STAM-2 Client” may only be simultaneously used on the number of workstations specified in the invoice received from the Licensor.
6. The right to use the Program is defined by the hardware key and the unique license code which are assigned to the Licensee. The license code 1) shall determine the Licensee's authority level, as well as some options of the Program, and 2) shall be made available to third parties in no other way than together with the Device, in accordance with Item 2 above. The license code makes it possible to use the Program on the computer intended for installation of the Program. Such a code will be assigned only once. In justified cases,

for example, hardware failure or replacement, or as specified below, the code may be assigned once more.

7. Having installed the Program, the Licensee shall register the Program, by means of the Licensor's website, by sending to the Licensor the individual serial number of the hardware key assigned to the Licensee, based on which the Licensor will create a unique license code for each installation. The code will be sent to the Licensee by e-mail after successful completion by the Licensee of the registration process on the stam2.satel.pl website. To enable the Program (subject, however, to the provisions of the next paragraph), the Licensee must load the received license code into the Program.
8. For 30 days after installation, the Program will work without the license code. Afterwards the Program will run for some time in a limited mode and then, unless you enter the license code, the Program will be blocked. In such a case, the Licensee which intends to use the Program, must re-install the Program, creating a new (empty) database (which will result in the loss of data of supervised premises and the event log) and install in the Program a valid license code purchased from the Licensor for the price indicated in the Licensor's current price list.
9. The Licensor shall make sure that the hardware key is permanently plugged into the computer on which the "STAM-2 Server" program is running. Otherwise, the hardware key will be deregistered. If this is the case, to make further operation of the Program possible, provided that less than two weeks have elapsed since deregistration of the key, the Licensee may use the deregistered key restore function, which is included in the Program and operates on the principle of generating a string of characters that must be sent by the Licensee to the Licensor. In response, the Licensee which holds a valid license will receive from the Licensor a string of characters that Licensee should load into the Program. However, if two weeks or more have elapsed since deregistration of the key, the Program will be disabled irreversibly, the database of the Program will be lost and its recovery by the Licensee will be impossible. In special cases, the Licensor, on behalf of the Licensee, may make an effort to restore the database of the Program for an extra charge according to the current price list of the Licensor (item STAM HELP).
10. If any Program updates are created, the Licensor may make them available to the Licensee, at the request of the Licensee, against an extra fee according to the current price list of the Licensor. The Licensee may not demand that the Licensor should create any updates or upgrades for the Program. Updates and upgrades will be made available to the Licensee on the terms described above, according to the course of work and trade policy of the Licensor. This also applies to adding new functions to the Program.
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    15.2. incorrect configuration of the Program (or other programs);
    15.3. operation of programs other than the Program;
    15.4. performance of the database (collection of data necessary for the operation of the Program);

15.5. any alterations to the Program or Device, unless made by the Licensor;

15.6. use of the Program version from before the latest update.

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