



Pagrindinis langas

Funkcijos... Duomenys Konfigūracija Ataskaitos Pagalba

Demo 16:51:26 2010 m. birželis 16 d.

| Data | Laikas | Objekto Nr. | Objektai | Ivykio kodas | Ivykiai |
|------------|----------|-------------------|--------------------|--------------|--------------------|
| 2010.06.16 | 16:48:00 | 2 - 1 - 1234 - 1 | TEST | E 133 001 | 24 val. sabotažo |
| 2010.06.16 | 16:48:57 | 2 - 1 - 1770 - 30 | Nežinomas objektas | 0 E13 100 | Neaprašytas įvykis |
| 2010.06.16 | 16:50:06 | 2 - 1 - 1115 - 1 | Nežinomas objektas | E 130 002 | Neaprašytas įvykis |

Objektas: 2 - 1 - 1234 - 1 TEST

Objekto statusas: **atidarytas** Serijiniai įvykiai: 1 Nauji įvykiai: 1

Adresas:

Miestas:

Telefonas:

Sutartis:

Ivykio aprašas: E 132 002 Interior 002 zone

Ivykio komentaras:

Pastaba:

Priminimas

Priminti

po val. min. Laiku

2010.06.16 00:00:00

Objektas: O E D

Kartoti Baigti

Duomenų bazė (jungta) Serveris: prijungtas Vartotojas: 1 Įvykių atmintis: 0

Centralised Monitoring Software



(version v2.35)

Software Package Description

Purpose of the document

This document introduces the contents of the software package *Monas MS*, its main properties and operation features, defines its purpose and application and operation options.

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Purpose of *Monas MS*

Monas MS is an application software package for displaying, processing and storing messages received in centralised security and monitoring stations.

Software allows to react efficiently to received danger or burglary alarm messages, ensures that detailed information is presented to the personnel in a convenient and easily comprehensible manner, makes the search for information necessary to reaction easier, automatically stores received messages and enables the preparation of various reports.

Main properties of *Monas MS*

Centralised monitoring software *Monas MS* forms a sound signal when a message is received, displays the received message on the monitor screen alongside the data in the protected objects database. Software allows to form a comprehensive object database, add new data and store all received messages and reaction data.

Centralised monitoring software *Monas MS*:

- displays received messages on the monitor screen alongside the data in the database;
- forms a custom sound signal when a message is received;
- automatically records the time when a message is received;
- automatically carries out the control test of connection messages;
- carries out the alarm state control of selected objects;
- sets a reminder on selected messages at the custom time or period;
- records the time at which the personnel reacts to the received message;
- stores notes on received messages and reaction into an archive;

Software *Monas MS* allows to:

- receive information from various receiver devices operating in different connection protocols and connection channels;
- select fields to be displayed on the screen in a manner convenient to the personnel;
- enter the reaction notes for the station personnel;
- form and control a versatile database of protected objects;
- give different functions and software operation options to the personnel;
- carry out an effective data search in the protected objects database;
- save the database on a separate datalogger in a set time period;
- change summer/winter time of the software;
- prepare and print a comprehensive events or messages report;
- print object cards;
- inform the alarm user about the event in the protected object by a SMS message;
- send the event data to the mobile crew, GPS coordinates of the object (to Garmin navigation equipment) and receive its report on the reaction progress;
- display the location and movement of protected objects and mobile crews on the map;
- enter and use links for accessing more detailed information;
- divert the received information flow to a different software;
- connect to the program remotely and follow received messages during object set up or maintenance for the installer;
- select the working language (Lithuanian, English, Russian and others);

Composition of *Monas MS*

Software *Monas MS* is an application software package ensuring solution to problems arising in the monitoring station. Software package consists of:

1. *Monas MS server* receives information from external reception devices, controls data exchange between the database and *Monas MS client* programs.
2. *Monas MS client* displays received messages on the monitor screen alongside the object information stored in the database. The number of *Monas MS client* programs running in the monitoring station can be the same as the number of workplaces in the network.
3. *Monas MS Database* – a database control program running in *MS SQL 2008* environment, which stores all received information from protected objects and about reaction progress.
4. *Monas MS Station* ensures remote connection to rapid response crew equipment.
5. *Monas MS Web* allows the installer to connect to the software remotely and follow received messages in the monitoring station during object set up or maintenance.

Software *Monas MS* may be installed either on one or several computers connected to the same network. All computers must run in OS Windows environment.

Separate software modules are provided allowing to select the software package configuration with regard to the variety of tasks performed in the station, and defining the software operation options.

Software operation options are indicated in the security access USB key.

Monas MS software modules

Separate software modules define the software package configuration and options:

1. DEMO module ensures the display of received messages in two workplaces and from 30 protected objects alongside the object information in the database. Works without the security access key;
2. BASE module ensures the display of received messages in two workplaces alongside the object information in the database (object number limit may be defined in the access key);
3. ADDITIONAL WORKPLACES module allows to set up additional workplaces. The number may only be limited by the computer network configuration;
4. SMS module transmits SMS messages from the monitoring station software to the mobile phone of the protected object alarm system user;
5. MAPS module displays the location of protected objects on an electronic map;
6. NAV module ensures the transmission of GPS coordinates to the rapid response groups, ensures the connection and displays their movement on an electronic map;
7. WEB module ensures the remote connection to the software during the object set up or maintenance for the installer;

Description of *Monas MS* features

Access levels and options

Software users are given different functions and software operation options indicated by different access levels of the personnel: by entering different login passwords or assigning them with certain functions, forming object or operator groups.

- software administrator – is an access level allowing to control the operation of the internal computer network of the security station and to ensure the proper operation of the software;
- station manager – is an access level allowing to form and edit the object database, prepare required reports and organise the personnel work;
- station operator – is an access level allowing to follow and efficiently react to received messages, effectively communicate with the rapid response groups (mobile security crews);
- station technician – is an access level allowing to connect to the software during the alarm system set up or maintenance;

Other access levels may be provided depending on the organisational needs of the security station operation. It is possible to determine the employee who used the software according to the assigned passwords.

Message priorities and unresponsiveness time to the same message

All received messages are assigned priority according to which the display on the screen is ordered (danger - first, technical – last).

Software allows to set the necessary unresponsiveness time period to the same message. It allows to receive messages in the order they were sent from the object (repetitive, via different connection channels), but display only the first one received. It also decreases the workload of the operator since repetitive messages do not have to be processed. Repetitive messages can be seen by selecting the option when viewing the history or presenting a report.

Control of connection test messages

Control of connection test messages is performed automatically. Control procedure is indicated in the specific object card. Possible test control methods:

- synchronous – when test messages must be received at the set time including the pre-set deviation;
- asynchronous – when test messages must be received at certain pre-set time intervals;
- control of connection test messages may be disabled if necessary.

Connection control message is automatically stored in the message window if it is received at the set time. Software inform the operator if the connection control message is not received at the set time. Operator is also informed if test message is not received at the set time and asked if test time should be changed.

Control of the alarm system activation/deactivation time

Alarm system state and activation/deactivation time control is performed automatically to objects with set control procedure on their object card. Control may be disabled, while still following alarm system state, displaying it on the screen and following activation/deactivation according to the set schedule. Station manager may set the control procedure for every day of the week and/or holidays.

Software displays the activation/deactivation message on the screen if it is received on time. Software will display a comment that message was not received on time if activation/deactivation message is not received on time.

Object alarm system state (activated/deactivated/unknown) is displayed in the received messages window. Other objects alarm system statuses may be seen by opening the object state tab.

Entering reaction notes

Station personnel may enter reaction notes on messages in the reaction notes window. Notes may be selected from the list or entered from scratch. The time when note is entered is recorded automatically and will be presented in the report. Messages that require a repeated reference are temporarily stored in the processed messages window where messages can be edited to enter additional notes.

Reminders

Operator may enter the processed message reminder in the message window. In that case, the message will be repeated at the set time or after the set time interval.

Saving the database

Station administrator sets the frequency of uploading, datalogger to which database information about received messages and protected objects is saved. Database saving schedule is formed in *Monas MS server* and the following is selected: upload time, saving period and the datalogger.

Hotkeys

Personnel can freely select the hotkeys (functional keys and key combinations) and speed up the transition from one program window to another.

Special monitoring mode

Special monitoring mode may be set for a specific object for a certain time period. In this mode any received message is treated as dangerous to attract the attention of the operator. Station manager may create an object monitoring schedule and set when and in what mode objects are monitored or not.

In the disabled monitoring mode all messages are automatically directed to the top window and do not attract the attention of the operator.

Entering other messages

Examples of formed events are prepared in advanced and potential situations that may arise are foreseen. Station operation may enter the (verbal, phone or video) message into the software if it is received from an object that is not protected. In order to do so, an appropriate event is selected and message is formed in the object card. Message will appear in the program window in which operator enters the event description and reaction notes. All information is stored in the database and may be used for report preparation.

Reception of messages from receivers in TCP/IP protocol *

Messages in the monitoring software may be received from receivers in TCP/IP protocol. In order to do so, reception devices must work in one Ethernet network and be configured accordingly.

Sending text SMS messages to the client *

An option Send SMS must be selected and a required SMS message text be chosen in the object card. In such case, the alarm system client will be automatically sent a SMS message if a message is received or after the command of the operator. SMS message is sent via the connected SMS modem or via GSM network operator's SMS message centre.

Transmission of GPS coordinates and messages to the mobile crew *

Received message alongside the object GPS coordinates and other database information is sent to the navigation equipment Garmin of the mobile crew (through model Aplicom set up in the car). The crew and the station may communicate between each other. Communication is recorded, its data stored in the database and may be presented in the report.

Location of objects and mobile crews *

Location of protected objects and mobile crews (rapid response groups) is displayed on the map on the monitor screen. GPS coordinates must be entered in the object cards. Station personnel may choose to observe either the one object that the message is received from or all of them. Movement of the mobile crew and its movement parameters (speed, beacons, state, etc.) may also be observed. A message is formed once mobile crew leaves the selected territory. All movement messages are stored in the database and may be presented in the report.

Diverting messages to another program *

All received messages can be diverted from software *Monas MS* to another monitoring software via a serial port. It makes the transition from another monitoring software easier for the personnel.

Connection and message display in the remote technician workplace

Installer may connect to the software *Monas MS* remotely during the object set up or maintenance and follow messages received in the station. It decreases the workload of the station operator, does not

distract the attention. It also allows the installer to control his or her actions and enter main data in the object card. Access options for specified objects and time periods are set by the station manager.

Note:

** these additional program modules must be permitted in the access USB key!
These features are not available in DEMO and BASE versions!*

Received messages display

Received messages are displayed on the monitor screen alongside the information in the database and are accompanied by different sound signals. Sound signal type depends on the type of the received message and data in the database object card.

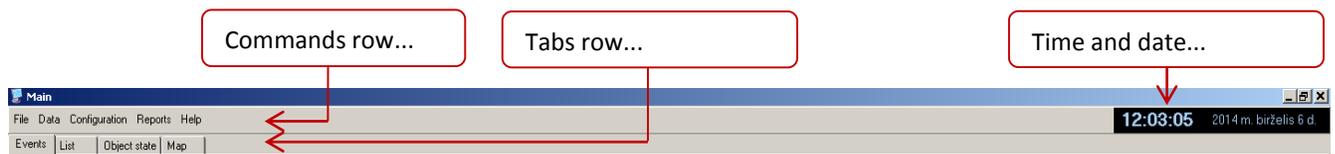
Data and time of reception, object number and name, event code and description and other information selected during the configuration of the window is displayed in the message line. Displayed contents of the received message, row arrangement and width may be freely customised and, if necessary, edited.

| Received | Time | Object Nr. | Object | Event Code | Event | Received level | Retranslator | Retranslator level | Receiver Name |
|------------|----------|------------------|---|------------|-------|----------------|--------------|--------------------|---------------|
| 2014.06.06 | 11:54:11 | 3 - 2 - 8052 - 0 | radio transmitter T10 (us RAS-3 device) | E 004 --- | Open | 4 | RR-1 | 4 | RF11_140428 |

Messages from objects are displayed on the screen with regard to their contents and meaning even if they are sent via different connection channels.

Subgroup (or device) number is seen in the message if the alarm system of the protected object is divided into subgroups. Every subgroup may be described independently or according to the general object description when creating the protected object card.

Time and date is displayed, and desired actions are chosen in the commands row in the top of the main window of *Monas MS client*. Software uses the computer time.



Monas MS client working part is comprised of windows that are opened after clicking on tabs. Number and names of tabs depend on the chosen software package composition and software operation options indicated in the access key.

Monas MS client tab **Events** is comprised of several parts.

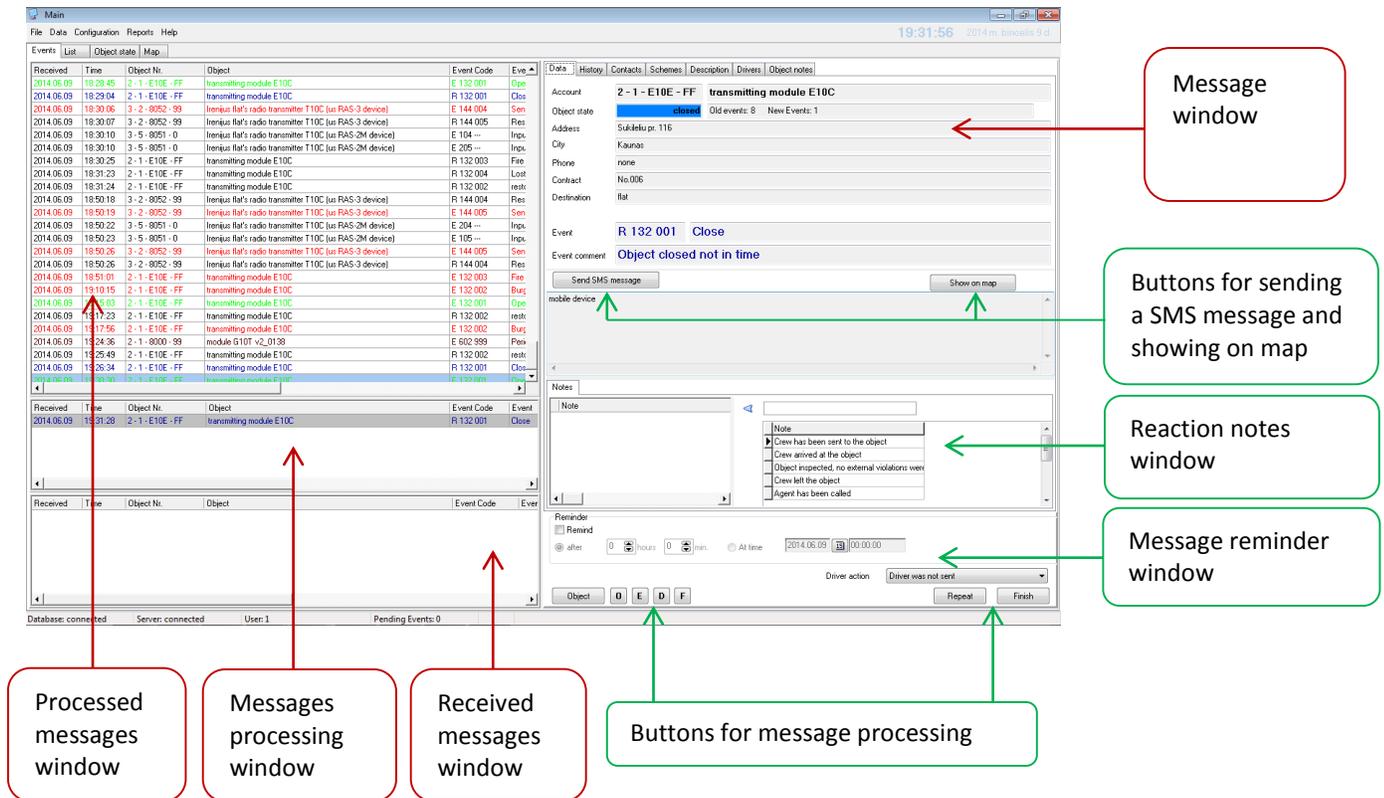
Fields on the left side are called received messages windows (bottom), messages processing window (middle) and processed message window (top).

All received messages go into the bottom received messages window. Messages are listed according to the set priorities (danger – top, test – bottom) and time of reception (older - top). Message is automatically moved to the processed messages window on the top if it does not require any processing (test message on

time, activation/deactivation message, etc.). Message window with information necessary for editing will open if message requires processing.

Messages requiring repeated processing are moved to the middle window. Messages listed there can be selected to continue their processing.

Processed messages are moved to the top window. These messages can be viewed, but can not be commented on or processed in any way.



Window on the right side is called message window. Received message alongside the object information is displayed there with the object state, reaction notes, reminder fields and control buttons. Reaction notes can be entered into the field, message reminder time or time period set, message moved to the messages processing window in the middle (for repeated processing or to enter a new reaction note) or to the processed messages window on the top using the control buttons.

Additional event comments (activation/deactivation, etc.) and other notes necessary for reaction are displayed in the field *Event comment*.

Buttons **History**, **Contacts**, **Schemes** or hotkeys may be used to access detailed information. **Object** will allow to access the whole processed object card. Button **O** will allow to move all selected object messages to the archive, **E** – to move all the same messages to the archive, **D** – to select the time period to ignore the selected message of the selected object, **F** – to send the message to another operator.

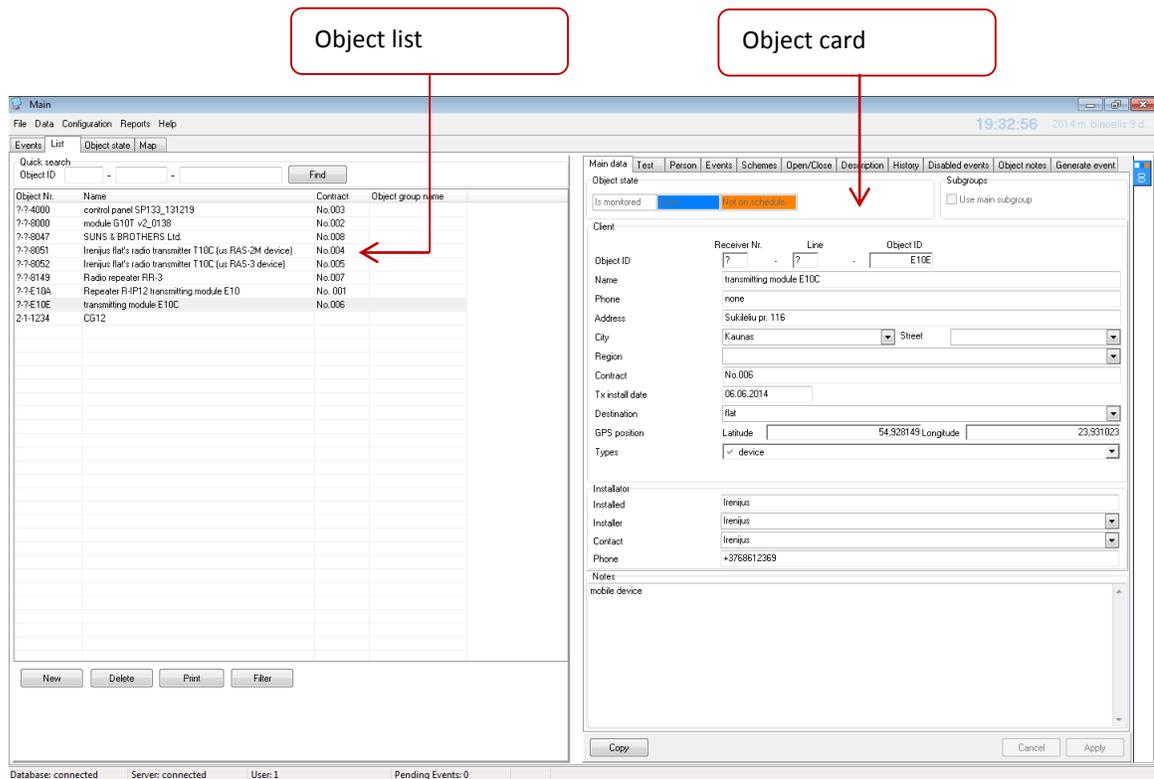
Field *Driver action* displays the state of the rapid response group.

Tab **Map** will display the location of the object on an electronic map.

Send SMS message will send a SMS message to the alarm system users if it was not done automatically.

Object list and object card

Software *Monas MS client* tab **List** is comprised of the object list and the chosen object card. Buttons at the bottom of the object list allow to create a new object card, print or delete the current, and use the information search filter.



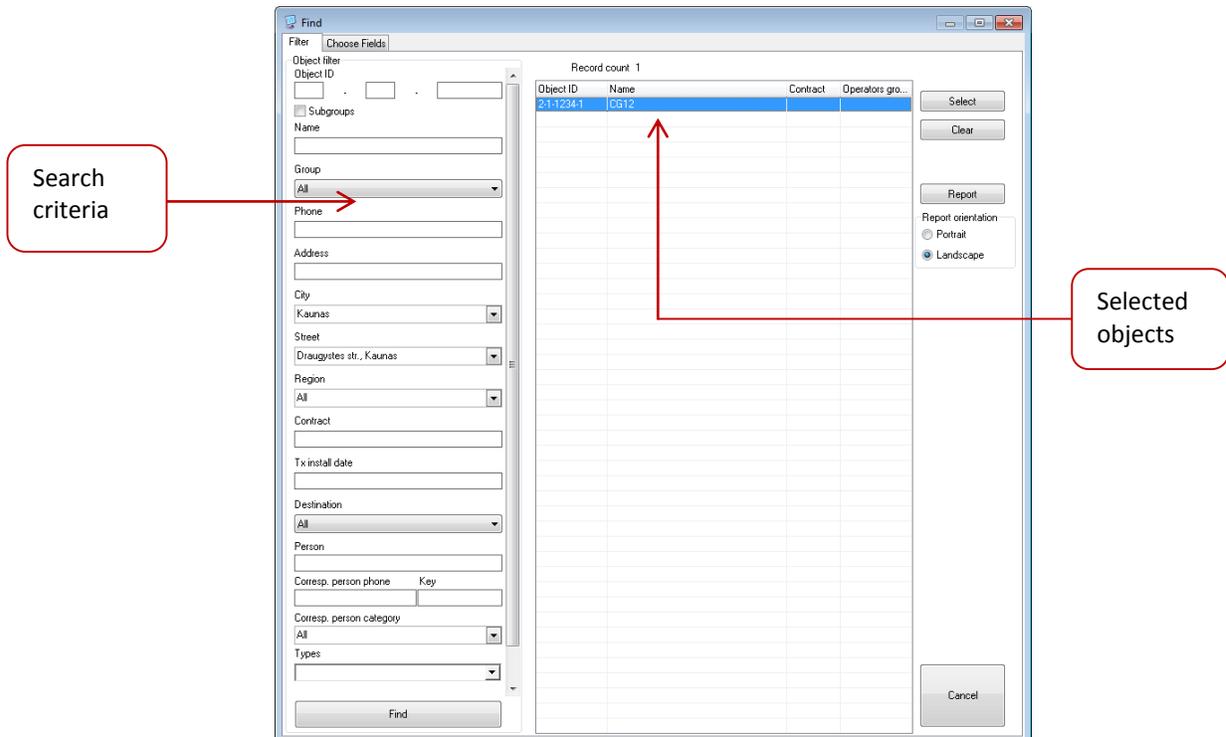
Various text and graphic information may be entered in the object card and used later. Main data (object name, address, etc.), event codes and reaction to them, agent list, access and premises schemes, automatic test mode and time, activation/deactivation schedule and other data necessary for reaction including links for additional information are listed in the card.

Current monitoring and alarm system state is displayed in the object card.

Database search

Button **Filter** at the bottom of the object list in the tab **List** is used to access the database search.

Entering a part of the known information allows to select those objects from the general object list that contain data fulfilling the search criteria. When search criteria are specified, only those object cards that contain the searched information are singled out. Selecting the desired object and pressing **Select** will open the required object card.



Object state display

Alarm system states (activated/deactivated), compliance to the set activation/deactivation schedule (operation control) and object monitoring state (monitored, not monitored, special monitoring) of all objects in the database are displayed in tab **Object state**.

| Object state | Object Nr. | Name | Work control | Object status |
|--------------|------------|---|--------------|---------------|
| On (1/1) | 7-7-10E | transmitting module E10C | | Is monitored |
| | 7-7-30427 | SUN'S & BROTHERS Ltd | | Is monitored |
| | 7-7-E10A | Repeater R-IP12 transmitting module E10 | | Is monitored |
| | 7-7-8149 | Radio repeater RR-3 | | Is monitored |
| | 7-7-8000 | module G10T v2_0138 | | Is monitored |
| | 7-7-8052 | Irenius Itat's radio transmitter T10C (as RAS-3 device) | | Is monitored |
| | 7-7-4000 | control panel SP132_131219 | | Is monitored |
| | 21-1234 | CG12 | | Is monitored |

States are displayed in different colours for a more convenient observation. The list may be sorted.

Report preparation

Software *Monas MS client* allows to prepare detailed reports, print them or save them electronically. It is possible to select the contents of displayed information and fields width.

Information may be selected according to the date and time, object or their group, subgroups, events or reactions. Only received messages or they alongside reaction notes and communication with the rapid response group records may be included in the report.

Reports Filter

Time
 From: 2014.06.09 00:00:00 To: 2014.06.09 23:59:59

Object
 All All subgroups Search by number

Object: [] - [] - []

| Object Nr. | Name | Partition | Name |
|------------|---|------------|----------------------|
| ?-?-4000 | control panel SP133_131219 | ?-?-8051-0 | Irenijus flat's r... |
| ?-?-8000 | module G10T v2_0138 | | |
| ?-?-8047 | SUNS & BROTHERS Ltd. | | |
| ?-?-8051 | Irenijus flat's radio transmitter T10C (us R... | | |
| ?-?-8052 | Irenijus flat's radio transmitter T10C (us R... | | |
| ?-?-8149 | Radio repeater RR-3 | | |
| ?-?-E10A | Repeater R-IP12 transmitting module E10 | | |
| ?-?-E10E | transmitting module E10C | | |

Show Repeated Show notes

Event Code
 All events
 Selected events
 By reaction
 Unknown
 Event descriptions

Notes Drivers
 Note filter
 Included [] Excluded []

Other
 Contract [] Object group: All
 Types []

Report orientation
 Portrait Landscape

Buttons: Choose Fields, Preview, Cancel

Print Preview

Report

Time: 2014.06.09 00:00:00 - 2014.06.09 23:59:59
 Object ID: ?-?-E10E;
 Object: transmitting module E10C;
 Subgroups: All
 Show Repeated: Yes
 Included events: All

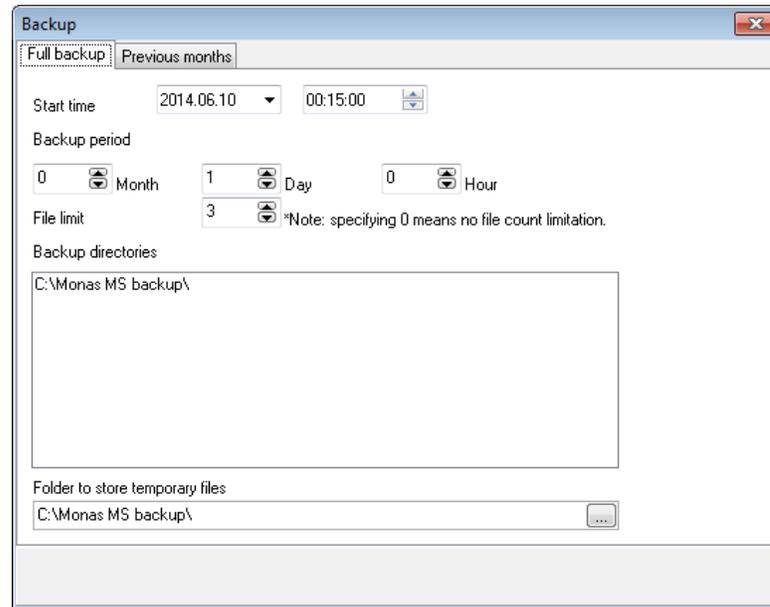
| Nr | Date | Time | Object ID | Object | Report Code | Event name | PI level | PR | Repeater |
|-----|------------|----------|-------------|------------------------------------|----------------------------|----------------------------|----------|----|----------|
| 1. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |
| 2. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |
| 3. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire | Fire | 0 | 0 | 0 |
| 4. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire | Fire | 0 | 0 | 0 |
| 5. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 132 004 | Low Power | Low Power | 0 | 0 | 0 |
| 6. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 308 000 | System shutdown 000 zone 0 | System shutdown 000 zone 0 | 0 | 0 | 0 |
| 7. | 2014.06.09 | 18:28:04 | 2-1-E10E-PF | transmitting module E10C E 602 000 | Periodic test report 000 0 | Periodic test report 000 0 | 0 | 0 | 0 |
| 8. | 2014.06.09 | 18:28:05 | 2-1-E10E-PF | transmitting module E10C E 132 004 | Low Power | Low Power | 0 | 0 | 0 |
| 9. | 2014.06.09 | 18:28:05 | 2-1-E10E-PF | transmitting module E10C E 308 000 | System shutdown 000 zone 0 | System shutdown 000 zone 0 | 0 | 0 | 0 |
| 10. | 2014.06.09 | 18:28:05 | 2-1-E10E-PF | transmitting module E10C E 602 000 | Periodic test report 000 0 | Periodic test report 000 0 | 0 | 0 | 0 |
| 11. | 2014.06.09 | 18:28:45 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Open | Open | 0 | 0 | 0 |
| 12. | 2014.06.09 | 18:28:45 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Open | Open | 0 | 0 | 0 |
| 13. | 2014.06.09 | 18:29:04 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Close | Close | 0 | 0 | 0 |
| 14. | 2014.06.09 | 18:29:05 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Close | Close | 0 | 0 | 0 |
| 15. | 2014.06.09 | 18:30:25 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire restore | Fire restore | 0 | 0 | 0 |
| 16. | 2014.06.09 | 18:30:25 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire restore | Fire restore | 0 | 0 | 0 |
| 17. | 2014.06.09 | 18:31:23 | 2-1-E10E-PF | transmitting module E10C E 132 004 | Lost AC | Lost AC | 0 | 0 | 0 |
| 18. | 2014.06.09 | 18:31:23 | 2-1-E10E-PF | transmitting module E10C E 132 004 | Lost AC | Lost AC | 0 | 0 | 0 |
| 19. | 2014.06.09 | 18:31:24 | 2-1-E10E-PF | transmitting module E10C E 132 002 | restore burglaryv | restore burglaryv | 0 | 0 | 0 |
| 20. | 2014.06.09 | 18:31:24 | 2-1-E10E-PF | transmitting module E10C E 132 002 | restore burglaryv | restore burglaryv | 0 | 0 | 0 |
| 21. | 2014.06.09 | 18:51:01 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire | Fire | 0 | 0 | 0 |
| 22. | 2014.06.09 | 18:51:01 | 2-1-E10E-PF | transmitting module E10C E 132 003 | Fire | Fire | 0 | 0 | 0 |
| 23. | 2014.06.09 | 19:10:15 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |
| 24. | 2014.06.09 | 19:10:15 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |
| 25. | 2014.06.09 | 19:15:03 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Open | Open | 0 | 0 | 0 |
| 26. | 2014.06.09 | 19:15:03 | 2-1-E10E-PF | transmitting module E10C E 132 001 | Open | Open | 0 | 0 | 0 |
| 27. | 2014.06.09 | 19:17:23 | 2-1-E10E-PF | transmitting module E10C E 132 002 | restore burglaryv | restore burglaryv | 0 | 0 | 0 |
| 28. | 2014.06.09 | 19:17:23 | 2-1-E10E-PF | transmitting module E10C E 132 002 | restore burglaryv | restore burglaryv | 0 | 0 | 0 |
| 29. | 2014.06.09 | 19:17:56 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |
| 30. | 2014.06.09 | 19:17:56 | 2-1-E10E-PF | transmitting module E10C E 132 002 | Burolaryv to flat | Burolaryv to flat | 0 | 0 | 0 |

2014.06.09 1

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Saving the database

Monitoring software *Monas MS* archives all data (received messages and object cards) and stores it on the selected datalogger according to the set schedule.

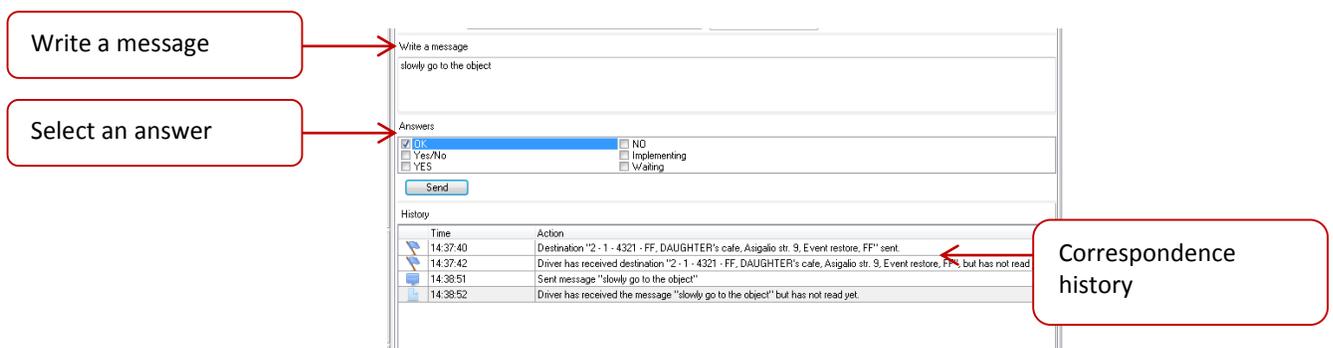


Current and last month data is easily accessible. Data is segmented and saved by forming monthly database copies at the end of every month. Older data is saved and may be used for longer-term report preparation.

Created daily or monthly archive copies may be used for database restoration in an event of equipment failure or update.

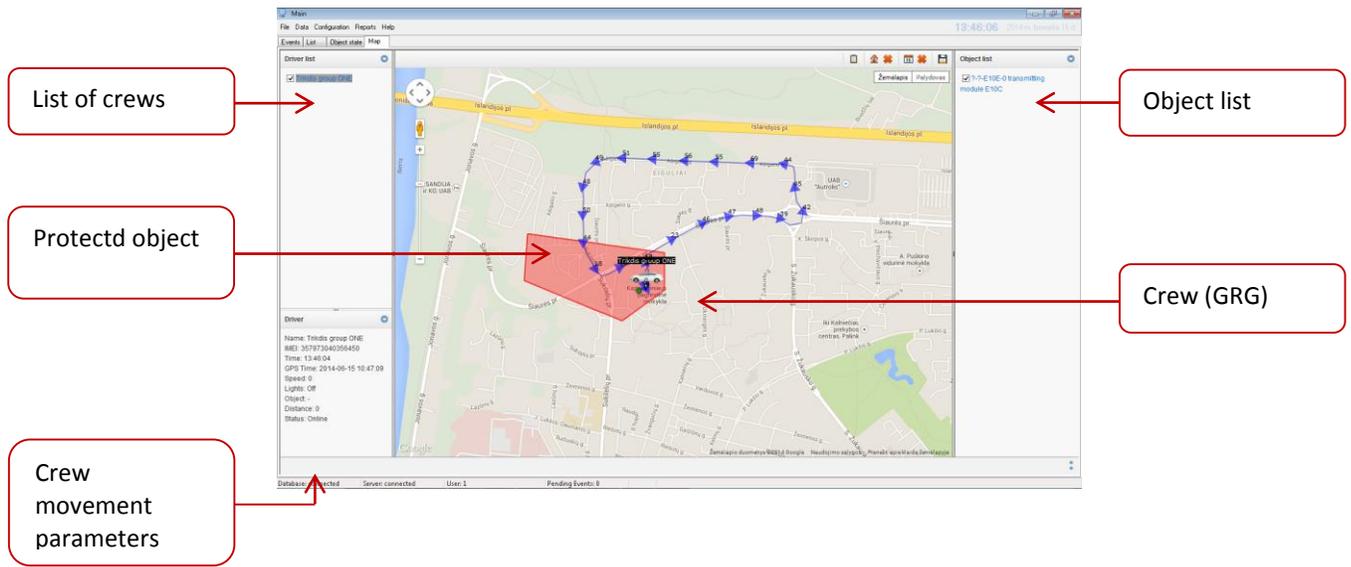
Communication with the rapid response group

Location of protected objects may be seen on an electronic map if *Monas MS* program modules NAV and MAPS are used. Setting up additional connection equipment in the car would allow to see the location of rapid response groups as well, send messages and protected object GPS coordinates to the navigation equipment Garmin and maintain continuous communication with the rapid response group.



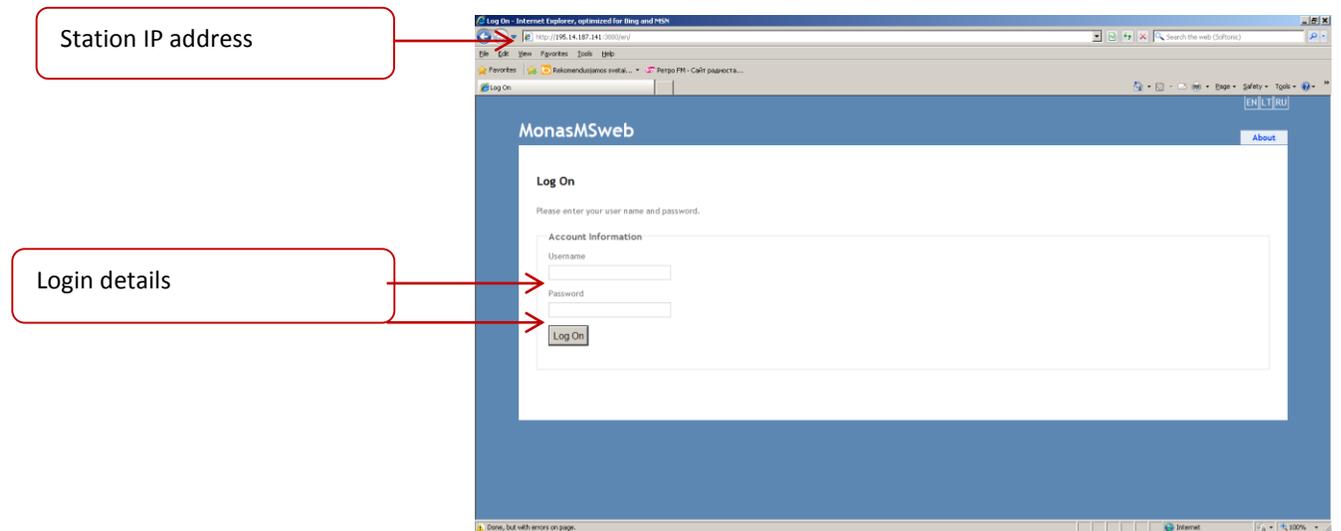
Car location, movement and parameters are displayed on the electronic map. Software follows the rapid response group deployment location and informs station personnel about violations of the established deployment territory.

Reaction progress is stored in the database and may be used for report preparation.

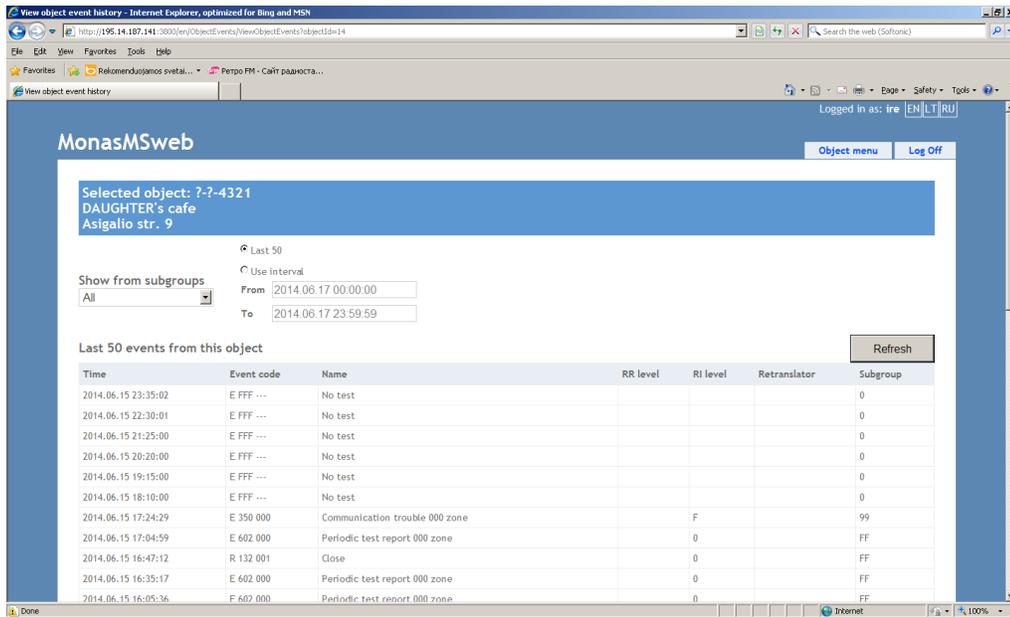


Remote WEB technician workplace

Installer may connect to the software *Monas MS* remotely (via internet) during the object set up or maintenance. In order to do so, external IP address:3800 of the equipment set up in the station and login data must be entered in the internet explorer window.



Installer will be able to observe objects for the specific time period permitted by the access level in the station. Installer may choose the desired object and update the data in order to be able to follow all sent and received messages in the station and evaluate the actions.



Actions permitted to the installer are stored in the database.

Computer and network requirements

Software package *Monas MS* can be installed either on one computer or on several computers in the same local network. *Monas MS* v2.35 can be installed on computers with parameters in the table below.

| Operating systems | |
|-----------------------------------|--|
| 32 bit (2000 - 5000 objects) | 64 bit (> 5000 objects) |
| CPU frequency: ≥ 2 GHz | CPU: I7 or better |
| RAM: 2-4 GB free | RAM: 6 GB free |
| Disk space: 100 GB free space | Disk space: 100 GB free space |
| Database space: 150 GB free space | Database space: 500 GB free space (20 000 objects \approx 7 GB/month) |
| Windows XP, Win 7 | Win7, Win8, Windows Server 2008, Windows Server 2012 Hardware Raid (several parallel disks) |

In order to use the software in the monitoring station the following must be foreseen:

- 1) At least one speaker for sound signals;
- 2) Necessary number of serial ports RS232 in the computer (that *Monas MS server* is installed on) in order to connect the required reception equipment. The use of USB or other tricks is not recommended. It is reasonable to use ports insertable into the computer motherboard.
- 3) Standby power supply ensuring the operation of the monitoring station for at least 1-2 hours;

Computer operation in the Ethernet network:

All computers must operate in the same network when *Monas MS* is being installed in several workplaces.

- 1) Network bandwidth must be fast enough for big data flows to be transmitted (not slower than 10 Mbit/sec.). It is reasonable to create a separate centralised monitoring station subnetwork and block any unauthorised access.
- 2) External connection to the server must be ensured, router configured and necessary ports forwarded if electronic Google map is used.
- 3) External connection to the car navigation equipment Garmin must be ensured through connection modem A1 TRAX, router configured and necessary ports forwarded if connection to rapid response groups is used;
- 4) External connection to the operator's SMS centre must be ensured, router configured and necessary ports forwarded or a local SMS modem with a selected operator's SMS card set up if SMS communication with the clients is carried out;
- 5) Software must be installed on a computer with OS Win7 or newer with enabled IIS (Internet Information Service) v7+ and ASP.NET setting, router configured so that data flow via TCP port 3800 is directed to a computer with installed Monas MS WEB if WEB workplace will be installed and used;

Key terms

operators –

individuals responding to received messages and controlling the operation of security crews.

operators group –

group of operators formed according to certain reaction (or organisational) features.

software administrator –

an individual responsible for the proper operation of the internal connection network and software of the security station computer.

station manager –

an individual responsible for the correct formation and replenishment of the database, organisation of the personnel work and preparation of necessary reports.

station technician –

an individual or a group of individuals maintaining the technical state and operation of connection devices and alarm systems.

subgroup (or area)

part of the alarm controlled separately.

short name –

short personnel name indicating the serial number or name of the password. It is used in order to acquire certain operation options.

password –

a number or letter sequence entered alongside the short name in order to acquire certain software operation options.

state –

state of the security control changed by the used, i.e. alarm system activated or deactivated.

alarm activated –

alarm system state during which there should be no people in the protected premises and all security sections are being monitored.

alarm deactivated –

alarm system state during which people can be in the premises and all technical and 24-hour security sections are being monitored.]

monitoring –

reception of alarm signals in the centralised monitoring station and reaction to received messages according to the agreements.

object state –

mode of the object monitoring: monitored, not monitored, special monitoring.

special monitoring mode –

monitoring mode during which all received messages are being reacted to as if they were danger messages.

no monitoring –

reception of alarm signals in the centralised monitoring station with no reaction. Received messages are automatically transmitted to the top window (archive).

activation/deactivation monitoring according to the schedule –

alarm activation/deactivation control according to the pre-established schedule. Software informs the operator about the deviation from the set schedule.

message notes –

notes on the reaction progress to the received message.

object notes –

information on changes in the object.

test message –

message received via a connection channel about the passage of the control signal through the connection channel.

disabled events –

events reaction to which is temporarily suspended.

formed events –

events formed by the monitoring station operator in order to record data received through other connection channels, i.e. call about a fire in the woods.

rapid response group (mobile security crew) –

mobile security staff group directly reacting to the event in the object.