Roger Access Control System

Integration of RACS 4 with CCTV

User manual

Document version: Rev. F

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Contents

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1. INTRODUCTION

This manual contains minimum information that is necessary to configure RACS 4 integration with CCTV devices including DVRs, NVRs, IP cameras equipped with SDHC memory cards and video compression card.

The integration is based on software development kits from HIK Vision (SDK V4.3.0.5) and Dahua (NetSDK_V3.38.0.R.120213) and it is assumed that all HIK Vision and Dahua recorders which conform to mentioned SDK versions can be used in the integration with RACS 4. In case of GV600/4 card from Geovision the integration was developed on the basis of Geovision software v8.5 and it is limited to mentioned device.

The configuration of RACS 4 is performed by means of PR Master software. The manual for PR Master is available at www.roger.pl. The integration concerns all controllers and readers manufactured by Roger.

Note: RACS 4 integration with all mentioned recorders requires PR Master in version 4.4.12 but it is recommended to apply version 4.5.18 or newer.

In general perspective, the integration consists in connection of events in access control system with video recorded by CCTV system and then downloading and displaying such video clips on request in PR Master software. The configuration consists in association of recorder channels (cameras) with selected readers and events. Associations are limited to such configuration that single channel of video recorder (camera) can be assigned to multiple readers, but single reader can be assigned to single channel of recorder (camera). Events can be assigned to reader without limitations.

2. GUIDELINES AND SCENARIOS

2.1 RACS 4 and standalone DVR/NVR integration scenario

In case of DVR and NVR it is assumed that they are connected within local area network (LAN) and they are equipped with hard drive for video recording. Other scenarios i.e. operation in wide area network (WAN) and with IP cameras equipped with SDHC memory cards were also tested with positive result, but the operation according to scenario given in fig. 1 is recommended by Roger.
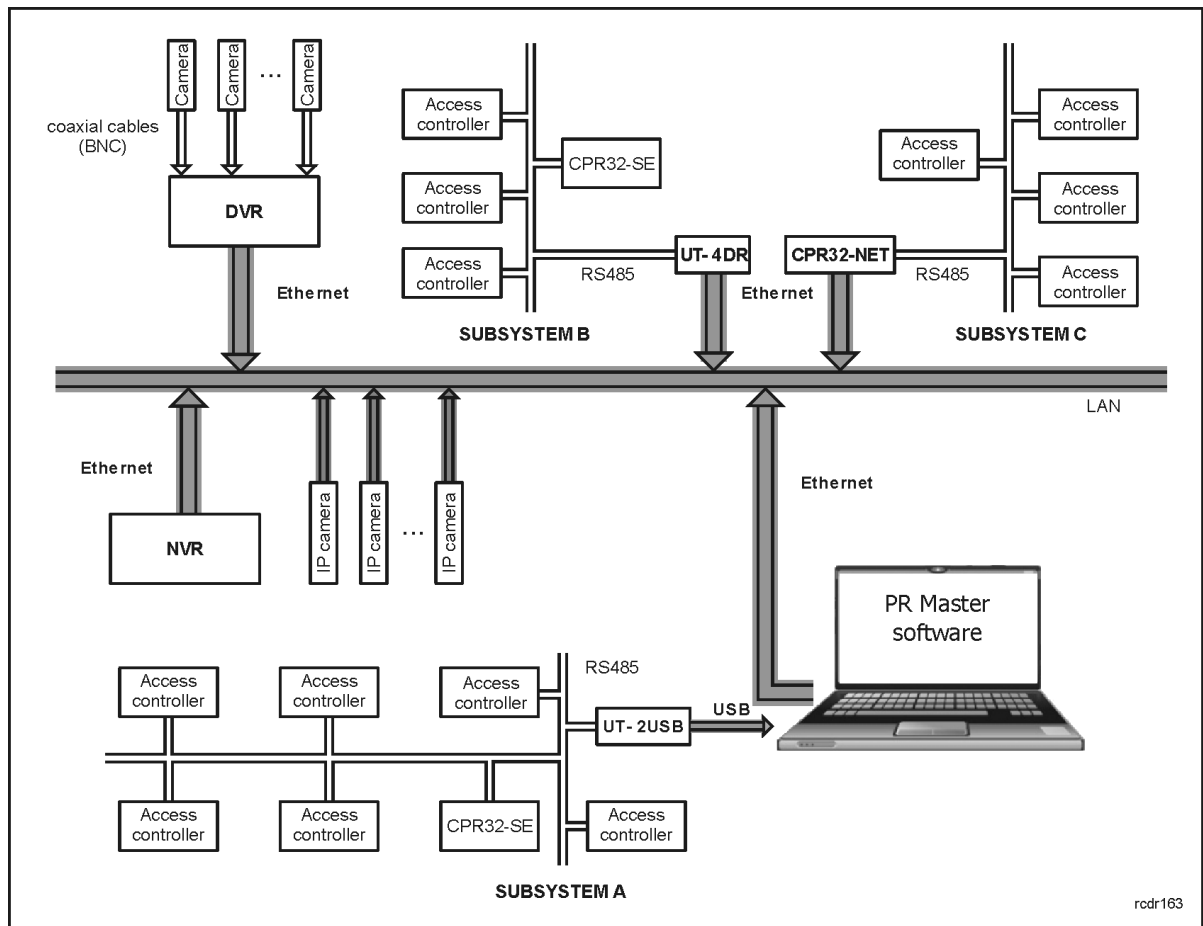
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Fig. 1 General diagram of RACS 4 and DVR/NVR

Integration procedure:
1. Configure Dahua recorder in accordance with section 3.1 Dahua recorder and/or configure Hik Vision recorder in accordance with section 3.2 HIK Vision recorder.
2. Install and configure RACS 4 access control system in accordance with customer requirements and following instructions, which are available at www.roger.pl

- Functional description of PRxx2 series controllers
- Functional description of PRxx1 series controllers
- PR Master User Manual
- Installation guides for particular controllers

3. Configure PR Master in accordance with section 4. Configuration of PR Master software.
4. In case of proper configuration, the integration can be applied in accordance with section 5. Use of RACS 4 and CCTV integration.

2.2 RACS 4 and GV600/4 card integration scenario

In case of GV600/4 video capture card, which is installed inside computer in PCI port, two scenarios are available:

- GV600/4 card, Geovision 8.5 software and PR Master software are installed within single computer – see fig. 2
- GV600/4 card and Geovision 8.5 software, both are installed in a particular computer while RACS 4 system software i.e. PR Master is installed in another computer. Both computers are connected within local area network (LAN) – see fig. 3

Integration procedure:
1. Configure GV600/4 card in accordance with section 3.3 GV600/4 video capture card

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2. Install and configure RACS 4 access control system in accordance with customer requirements and following instructions, which are available at www.roger.pl

- Functional description of PRxx2 series controllers
- Functional description of PRxx1 series controllers
- PR Master User Manual
- Installation guidelines for particular controllers

3. Configure PR Master software in accordance with section 4. Configuration of PR Master software.

4. In case of proper configuration, the integration can be applied in accordance with section 5. Use of RACS 4 and CCTV integration
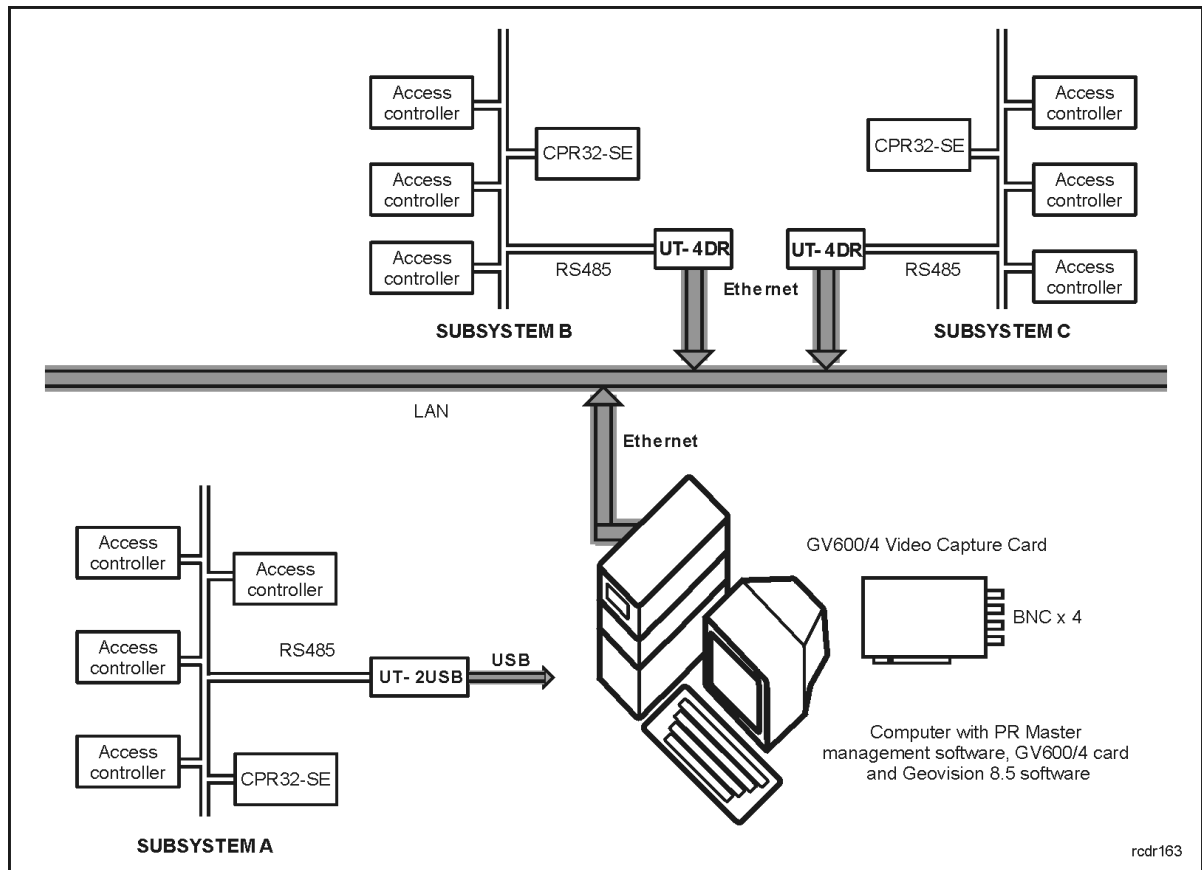

Fig. 2 General diagram of RACS 4 and GV600/4 card integration (single computer)
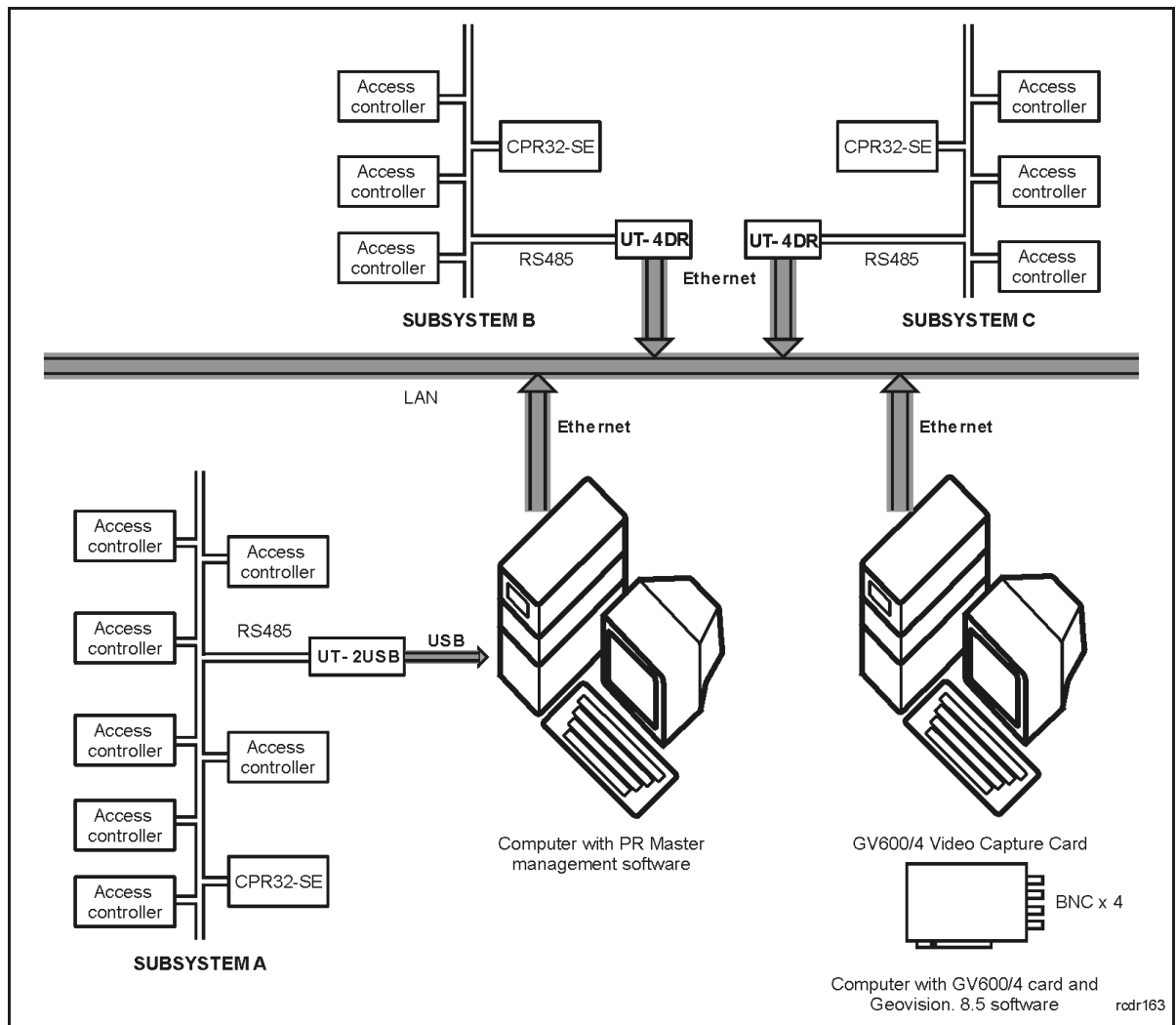
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Fig. 3 General diagram of RACS 4 and GV600/4 card integration (two computers)

3. CONFIGURATION OF CCTV DEVICES

3.1 Dahua recorder

3.1.1 Preparation of recorder for operation with RACS 4 system

DVRs and NVRs are standalone recorders used in visual monitoring. They enable digital recording of video respectively from analogue or IP cameras into hard drive installed inside the DVR/NVR. When the hard disk is full, old records can be automatically replaced by the latest ones. DVRs and NVRs are network device with own IP addresses that can be configured by means of standard web browser (e.g. IE). The configuration of Dahua recorder is described using DVR0804LE-A device as an example.

Recorder installation

Unpack the device and connect to power supply, cameras and local area network (LAN). More information on this subject is given in recorder instruction, which is available at producer/supplier webpage.

In this manual it is assumed that recorder is equipped with HDD and will be configured by means of web browser (e.g. IE) in local area network (LAN). Other possible methods of configuration are described in recorder's manual. After entering IP address in web browser, the message with Webplugin appears. It is required to install this plugin. In the next step log on recorder with default login 'admin' and default password 'admin'.

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Note: In further steps, it will be necessary to use recorder's administrator login and password in PR Master software in order to configure the integration of RACS 4 system with CCTV.
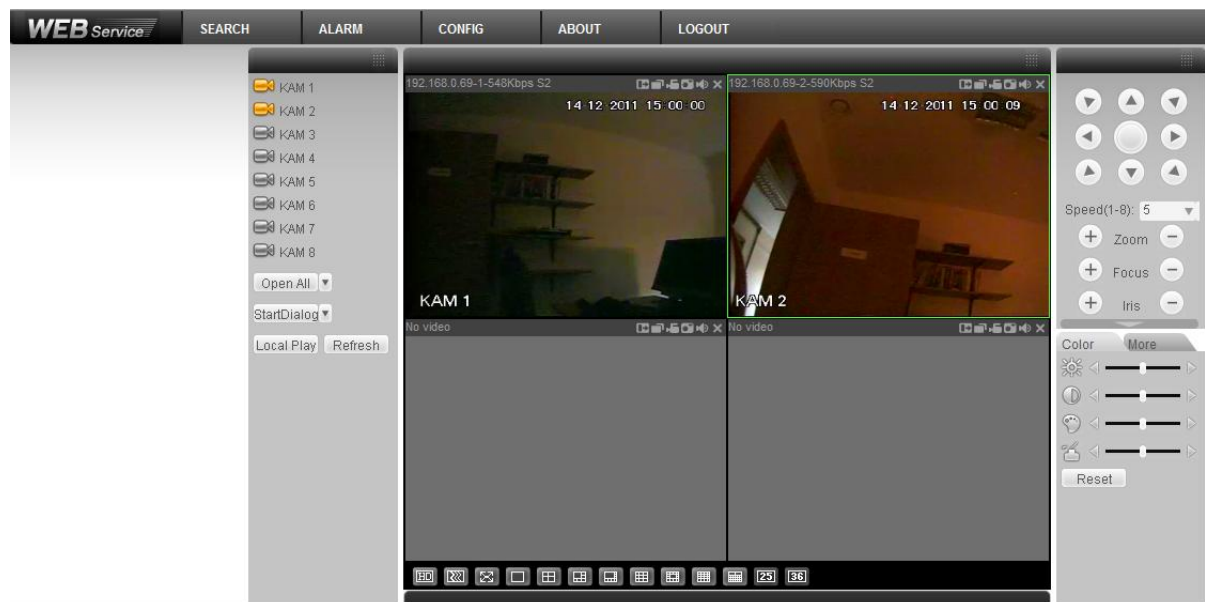

Fig. 4 Main window of Dahua DVR0804LE-A configuration software (web browser)

3.1.2 Recommended recorder settings

Note: The present manual does not contain full description of all DVR/NVR options and functions. The integration of RACS 4 system with exemplary DVR0804LE-A is based on the presumption that recorder uses default settings including guidelines given below. It is not possible to anticipate and plan all possible configuration scenarios, therefore it is installer responsibility to determine if particular device/system is adequate for particular installation.

1. Network settings.
In the window shown in figure 2, the operator can specify recorder IP address and TCP port. Both settings must be further entered in PR Master software in order to enable their communication. PR Master does not use UDP and HTTP ports, therefore these settings are not vital for the integration.
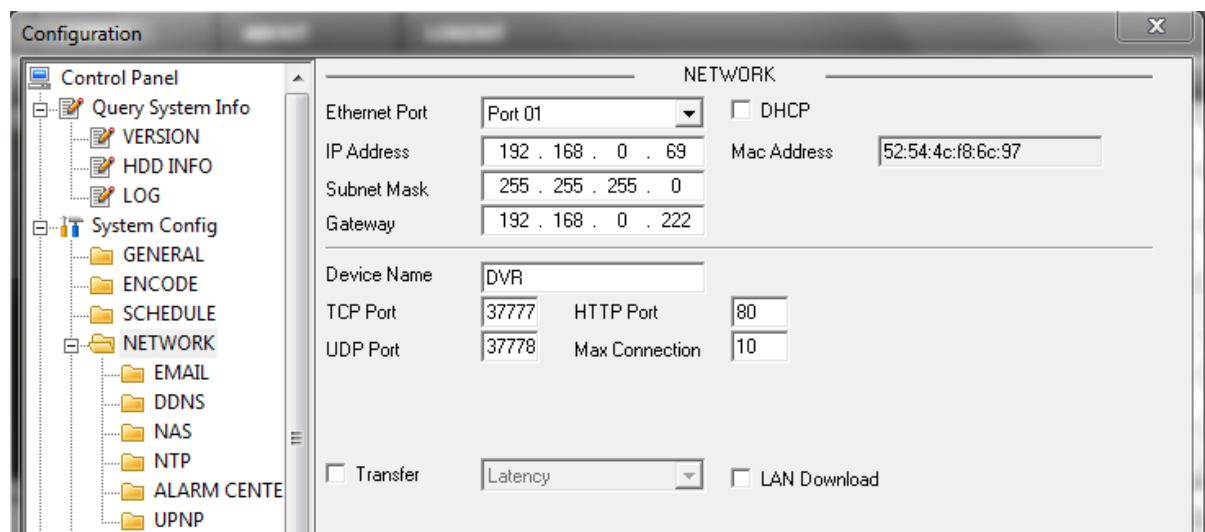

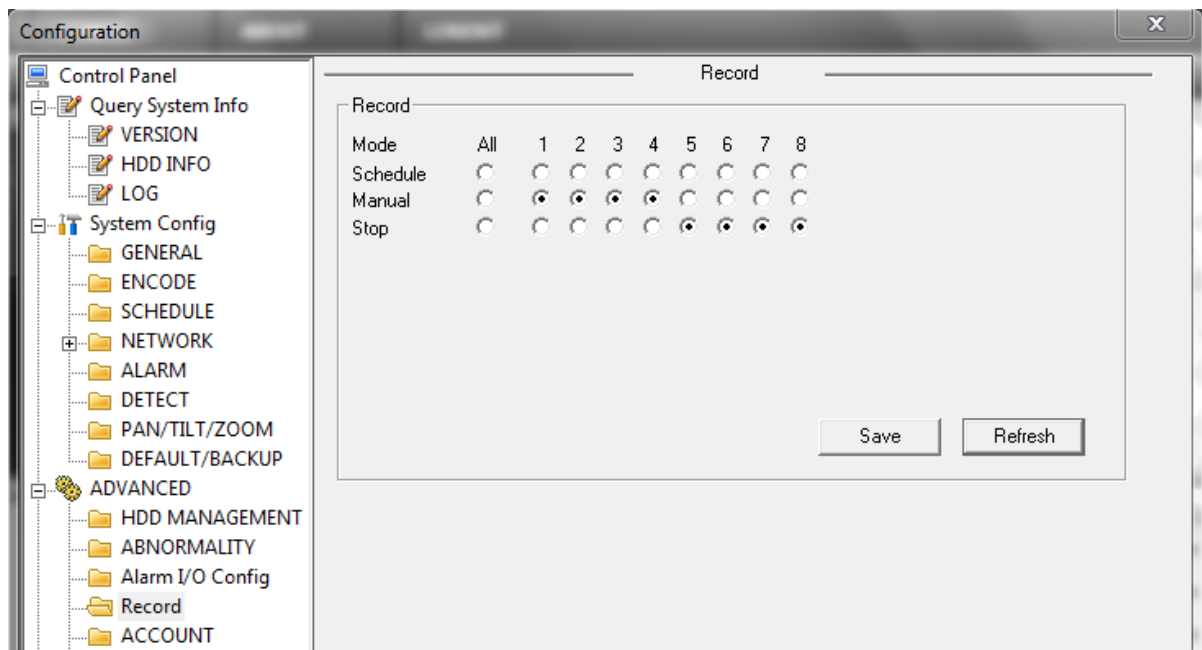Fig. 5 Example of network settings in DVR0804LE-A

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Fig. 6 Example of camera recording settings (DVR0804LE-A)

2. Video recording

In the window shown in fig. 6, the operator can activate video recording from particular cameras. In order to enjoy full integration it is recommended to select Manual recording (see fig. 6) after connection of all cameras to recorder. If the operator selects Schedule recording then it might happen that for particular event in access control system it will not be possible to download video clip as it will not be recorded in certain moment. RACS 4 system does not control the recorder and it only uses the resources of recorder, namely recorded video.

3. Administrator account

In the dialog box shown in fig. 7, the operator can specify administrator password. Administrator login and password must be later entered during configuration of PR Master software.
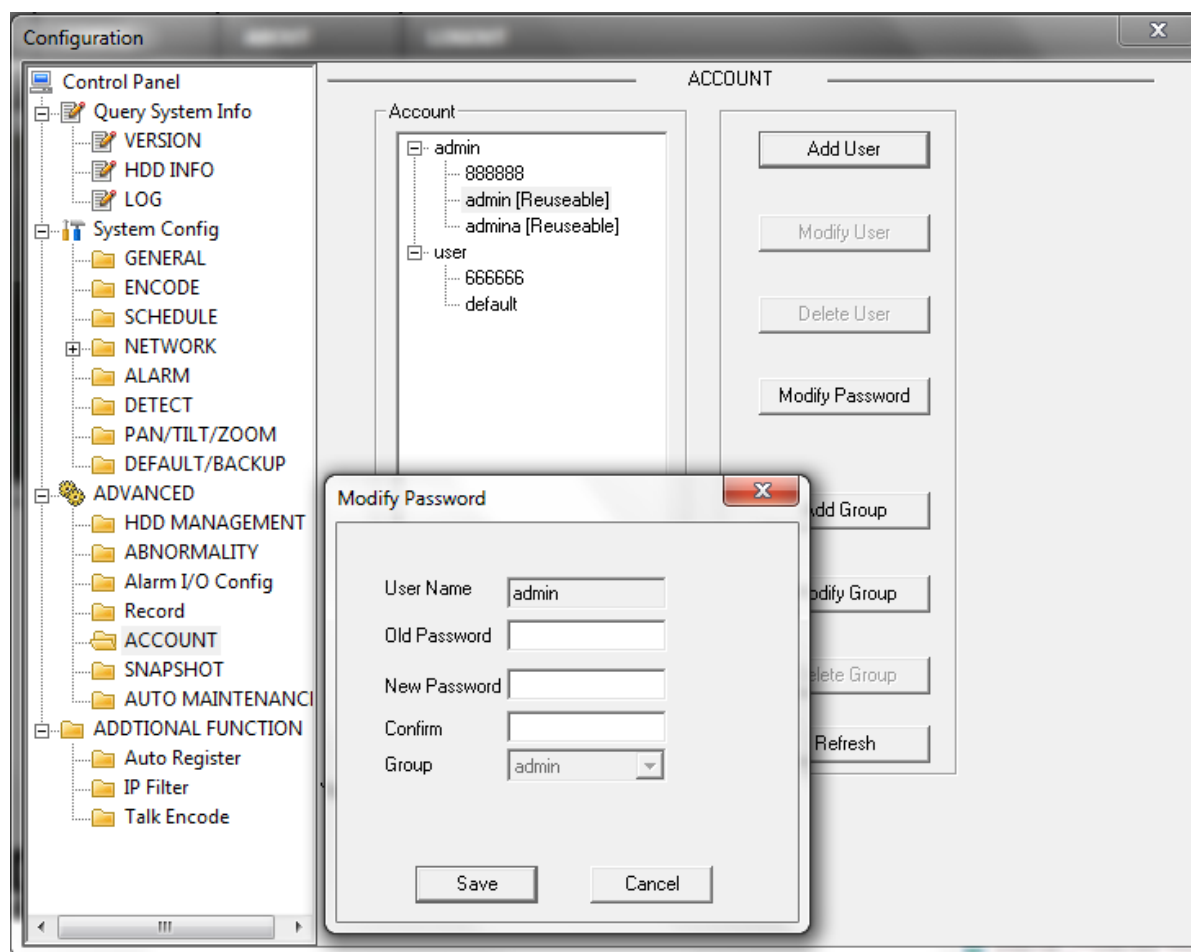
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Fig. 7 Administrator account in DVR0804LE-A

3.2 HIK Vision recorder

3.2.1 Preparation of recorder for operation with RACS 4 system

DVRs and NVRs are standalone recorders used in visual monitoring. They enable digital recording of video respectively from analogue or IP cameras into hard drive installed inside the DVR/NVR. When the hard disk is full, old records can be automatically replaced by the latest ones. DVRs and NVRs are network device with own IP addresses that can be configured by means of standard web browser (e.g. IE). The configuration of Hik Vision recorder is described using DS7204HVI-ST device as an example.

Recorder installation
Unpack the device and connect to power supply, cameras and local area network (LAN). More information on this subject is given in recorder instruction, which is available at producer/supplier webpage.

In this manual it is assumed that recorder is equipped with HDD and will be configured by means of web browser (e.g. IE) in local area network (LAN). Other possible methods of configuration are described in recorder's manual. Enter recorder's IP address in web browser and log on recorder with default login 'admin' and default password '12345'. In the next step install web browser plugin according to displayed information.

Note: In further steps, it will be necessary to use recorder's administrator login and password in PR Master software in order to configure the integration of RACS 4 system with CCTV.
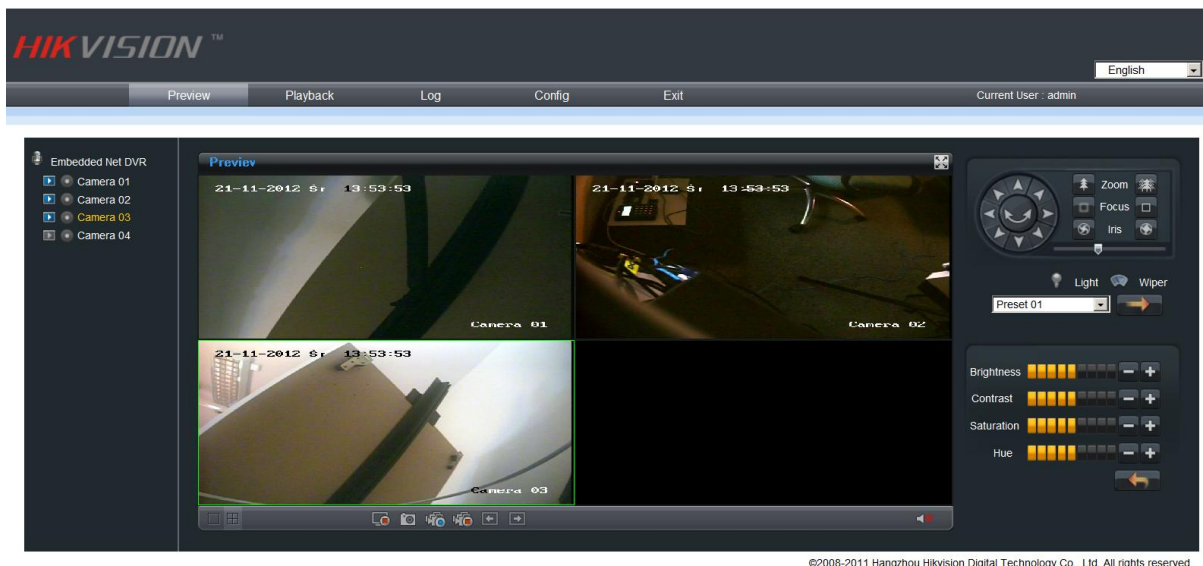
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Fig. 8 Main window of DS7204HVI-ST configuration software (web browser)

3.2.2 Recommended recorder settings

Note: The present manual does not contain full description of all DVR/NVR options and functions. The integration of RACS 4 system with exemplary DS7204HVI-ST is based on the presumption that recorder uses default settings with guidelines given below. It is not possible to anticipate and plan all possible configuration scenarios, therefore it is installer responsibility to determine if particular device/system is adequate for particular installation.

1. Network settings.
In the window shown in figure 9, the operator can specify recorder IP address and Device port. Both settings must be further entered in PR Master software in order to enable their communication.
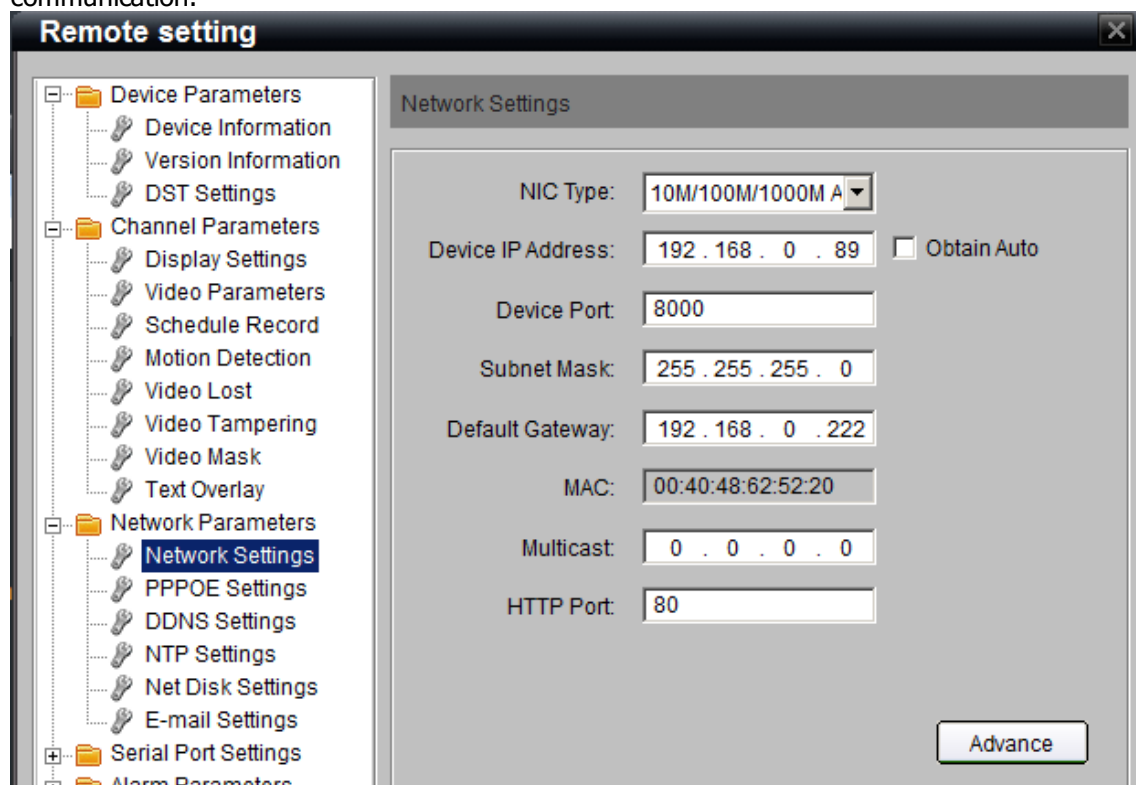

Fig. 9 Example of network settings in DS7204HVI-ST

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2. Video recording

In the window shown in fig. 10, the operator can activate video recording from particular cameras. In order to enjoy full integration it is recommended to select all day recording (see fig. 10) after connection of all cameras to recorder. If the operator selects other settings for recording then it might happen that for particular event in access control system it will not be possible to download video clip as it will not be recorder by recorder in certain moment. RACS 4 system does not control the recorder, it uses the resources of recorder, namely recorded video.
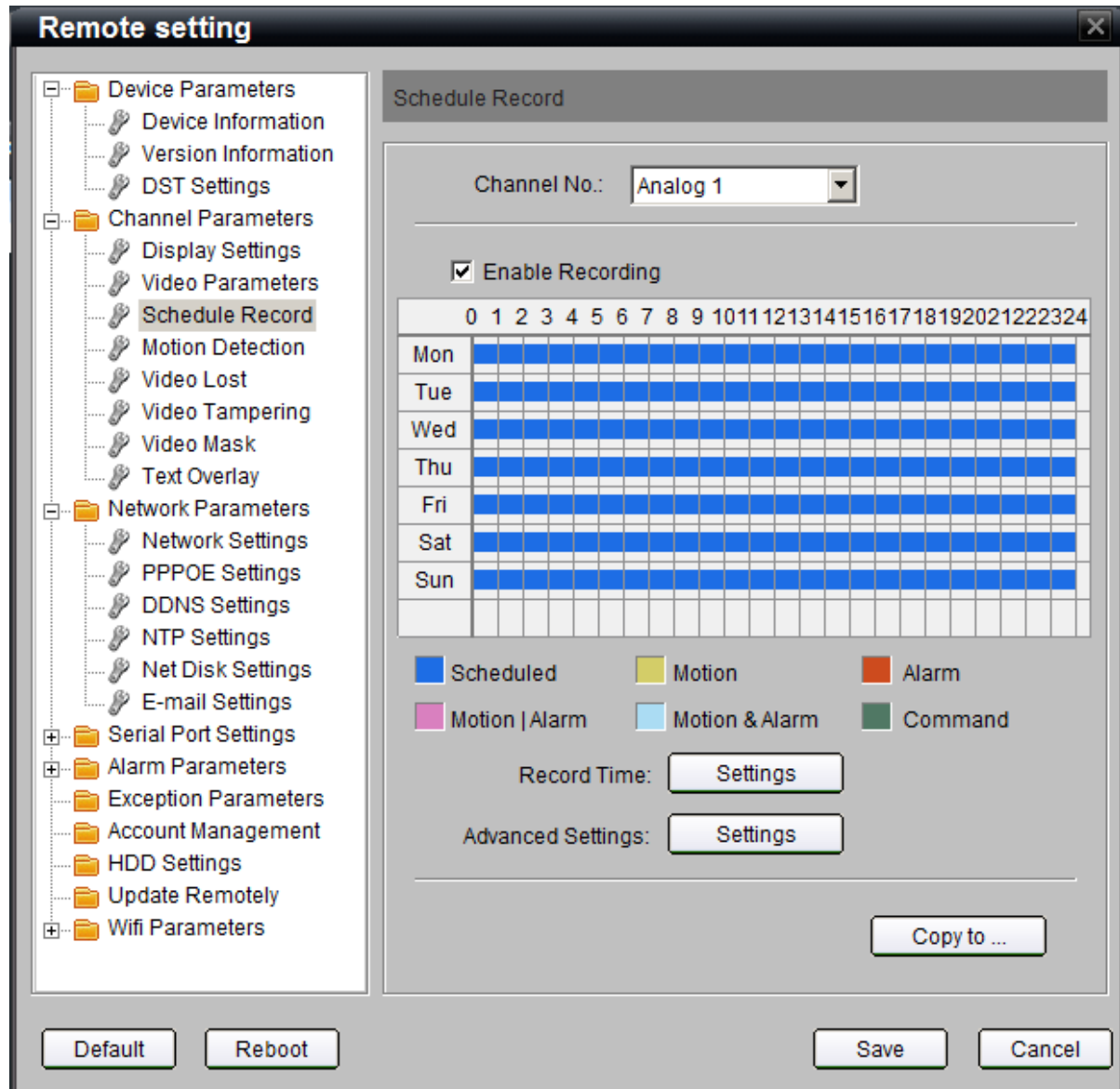

Fig. 10 Camera recording in DS7204HVI-ST

3. Administrator account

In the dialog box shown in fig. 11, the operator can set administrator password. Administrator login and password must be later entered during configuration of PR Master software.
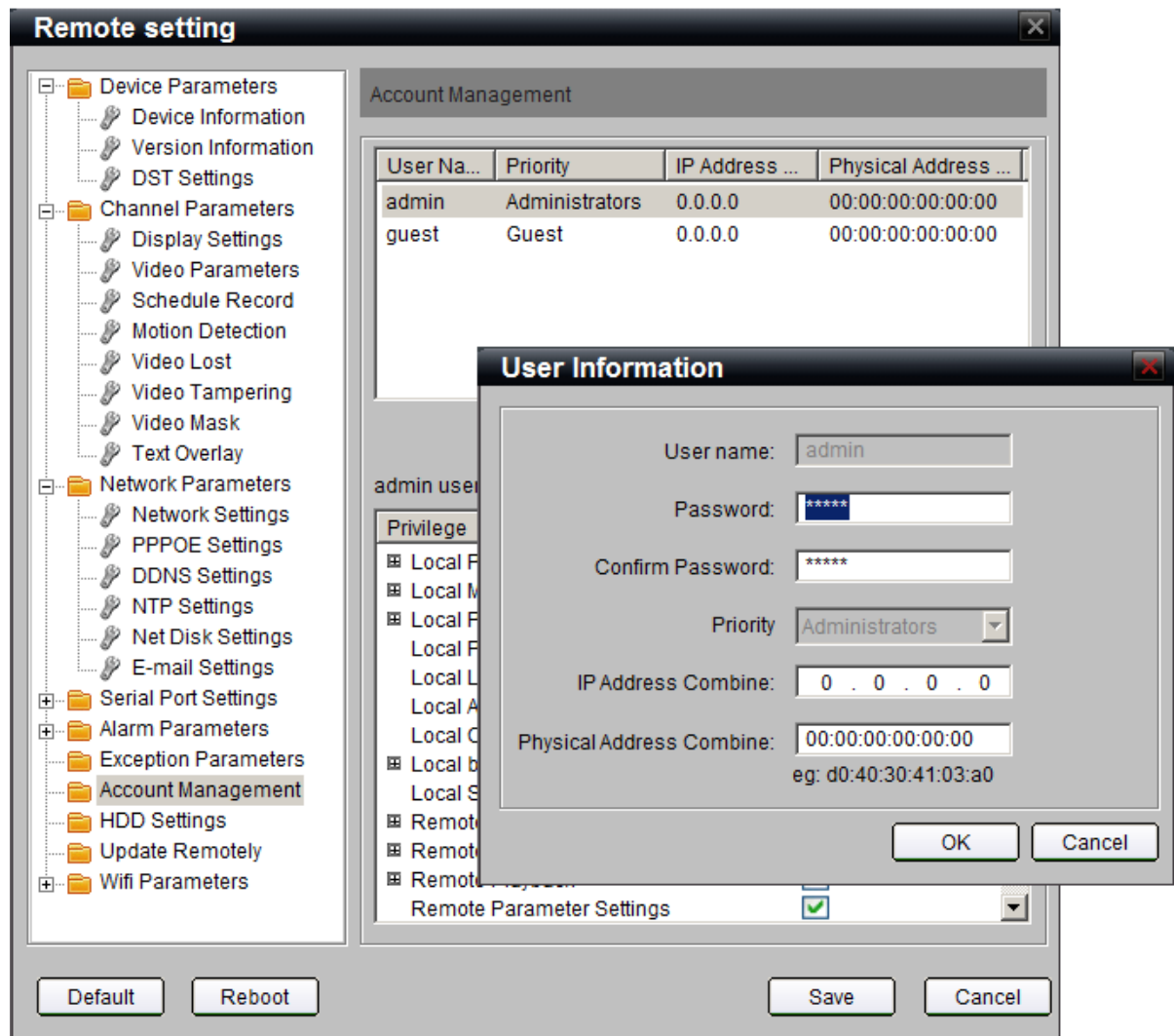
Fig. 11 Administrator account in DS7204HVI-ST

3.3 GV600/4 video capture card

3.3.1 Preparation of card for operation with RACS 4 system

GV 600/4 video capture card includes 4 video channels. The device is installed in PCI port of computer mainboard. The video is recorded at 25 frames/s at computer hard drive based on: GeoMPEG-4 or Geo H264 compression method.

Recommended computer configuration:

- Windows 2000 / Windows XP / Windows server 2003 / Windows Vista / Windows 7
- Processor:Pentium 4, 2.0 GHZ
- RAM: 256 MB
- Hard drive: 80 GB
- Graphic card: nVIDIA GeForce2 MX200 32MB
- DirectX: 9 or later

Installation of GV600/4 card:

1. Unpack the device, install inside computer (PCI port) and connect standard analogue cameras. Connect cameras to card in proper order i.e. single camera to port 1, two cameras to ports 1 and 2, etc.
2. Turn the computer on. Windows OS shall detect new hardware and shall start New hardware wizard. Cancel the wizard.
3. Insert DVD into drive and start installation of Geovision 8.5 software. Within the menu shown in fig. 12 select **Install or Remove Geovision GV Series Driver**, and then **Geovision**

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Main System. In case of Windows 7, the system UAC disable dialog box shall be shown. Accept it and disable the UAC.
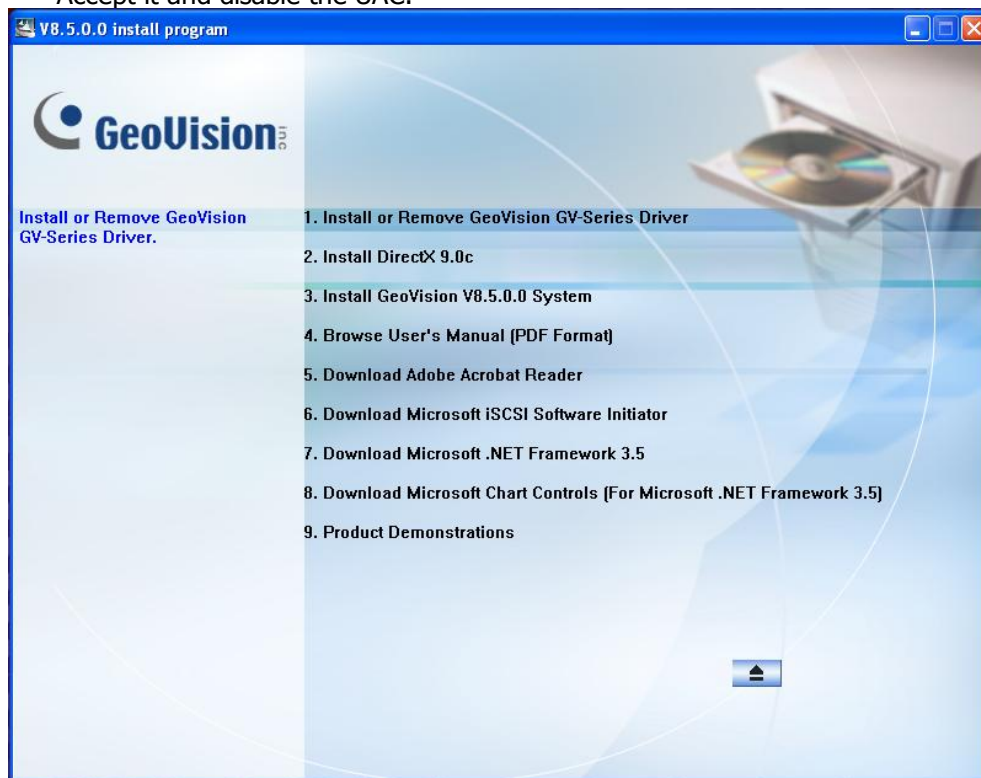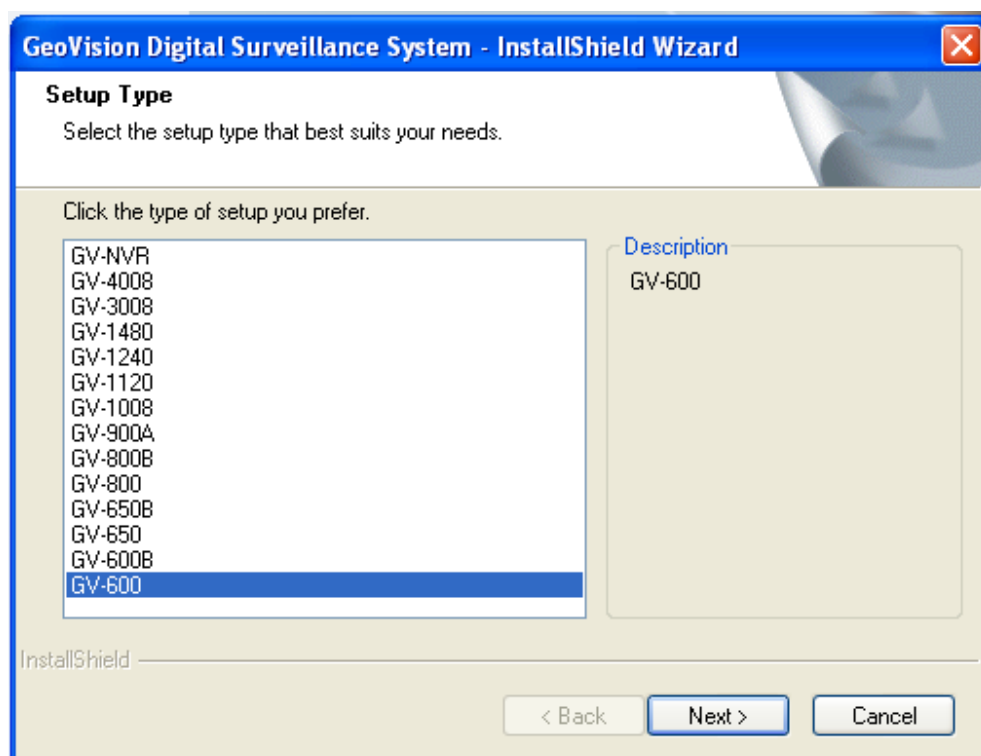

Fig. 12 Installation of GV600/4 software

Fig. 13 Selection of GV600/4 card

4. In the next dialog box specify destination of installation. Default path is C:\GV-600. It is recommended to use such path within integration with RACS 4, but the operator can also

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modify it by means of **Change** button. The path will have to be entered later during configuration of PR Master software.

5. Then in the dialog box shown in fig. 13 select your card i.e. GV600.
6. In the next dialog box select **PAL** system.
7. Then select display resolution, preferably recommended resolution.
8. In the next dialog box select the option **Add to Startup**, if it is required to start Geovision 8.5 software automatically with Windows OS. Geovision 8.5 software must be active whole the time in computer with GV600/4 card in order to ensure integration of RACS 4 with CCTV.

The integration of RACS 4 with CCTV is available in two scenarios: GV600/4 card, its software and PR Master software are installed in the same computer or they are installed in two different computers within local area network (LAN) - see 2.2 RACS 4 and GV600/4 card integration scenario.

3.3.2 Recommended card settings

Note: The present manual does not contain full description of all recorder options and functions. The integration of RACS 4 system with GV600/4 video capture card is based on the presumption that recorder uses default settings including guidelines given below. It is not possible to anticipate and plan all possible configuration scenarios, therefore it is installer responsibility to determine if particular device/system is adequate for particular installation.

Start GV600/4 software from Windows Start menu selecting **Geovision GV-600 System** in **GV-600** group or manually selecting GV600.exe file, which is available in installation folder (default path is C:\GV-600\GV600.exe). In case of starting for the first time, the software shall request to set administrator login and password. Default login is 'admin' and default password is 'admin'. The example of main window of Geovision 8.5 software is shown in fig. 14. In this example, two cameras of four possible are connected to GV600/4 card.

Fig. 14 Main window of Geovision 8.5 software

Guidelines concerning GV600 video capture card:
1. Software of GV600/4 video capture card - Geovision 8.5
2. Camera detection:

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It is recommended to select 4 channels despite the actual number of connected cameras according to fig. 15. In case of channels without cameras, the software shall generate acoustic warning, which can be switched off by means of the option shown in fig. 16.

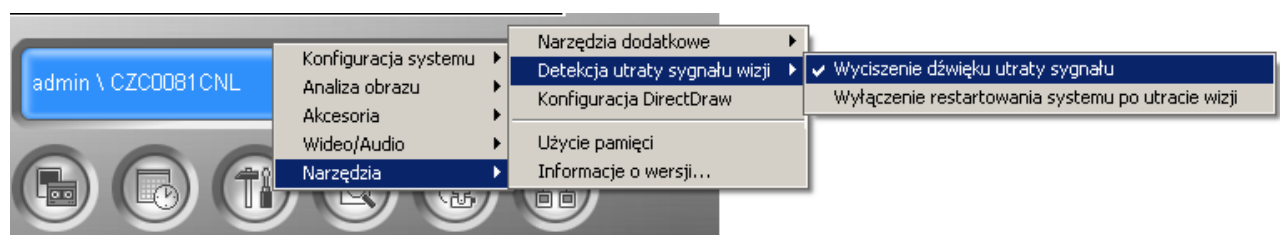Fig. 15 Selection of GV600/4 channels

Fig. 16 Acoustic warning off in GV600/4 card software

3. General settings

General settings can be configured by means of **Configuration** button and then selection of following options **System configuration -> General**. The integration was developed based on settings shown in fig. 17.
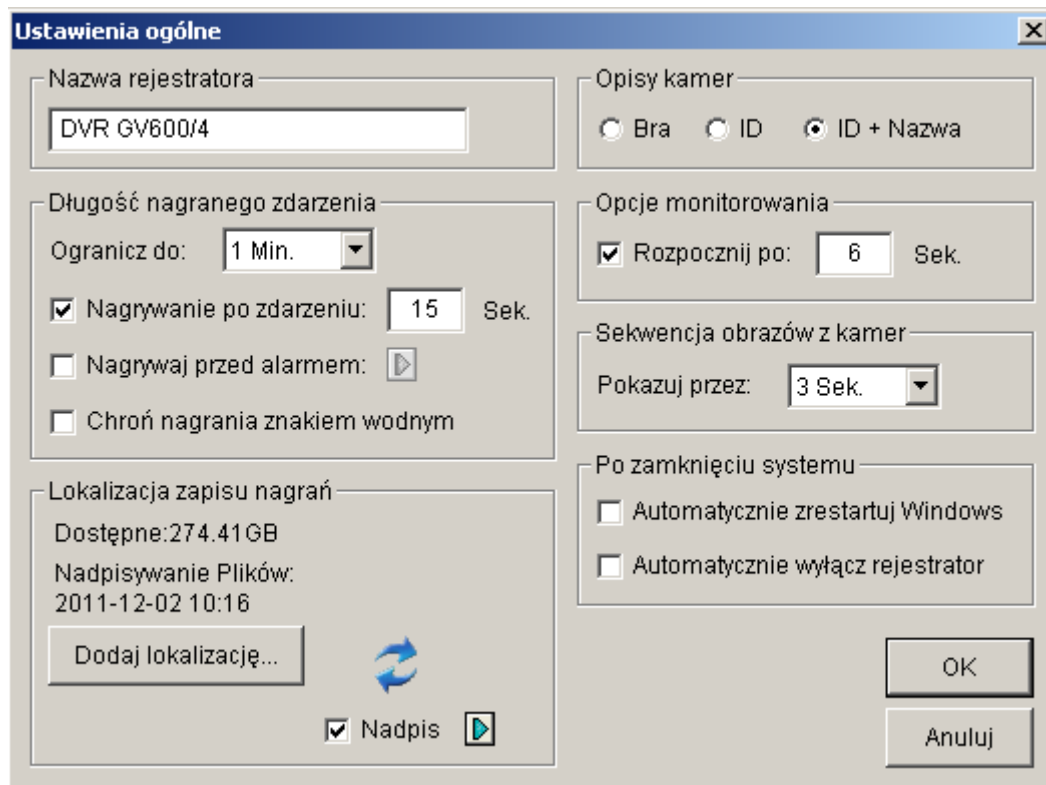
15/29

Fig. 17 Geovision 8.5 general settings

4. Administrator account
In case of GV600/4 card, it is possible to configure administrator account by means of option shown in fig. 18. Administrator login and password must be later entered during configuration of PR Master software.
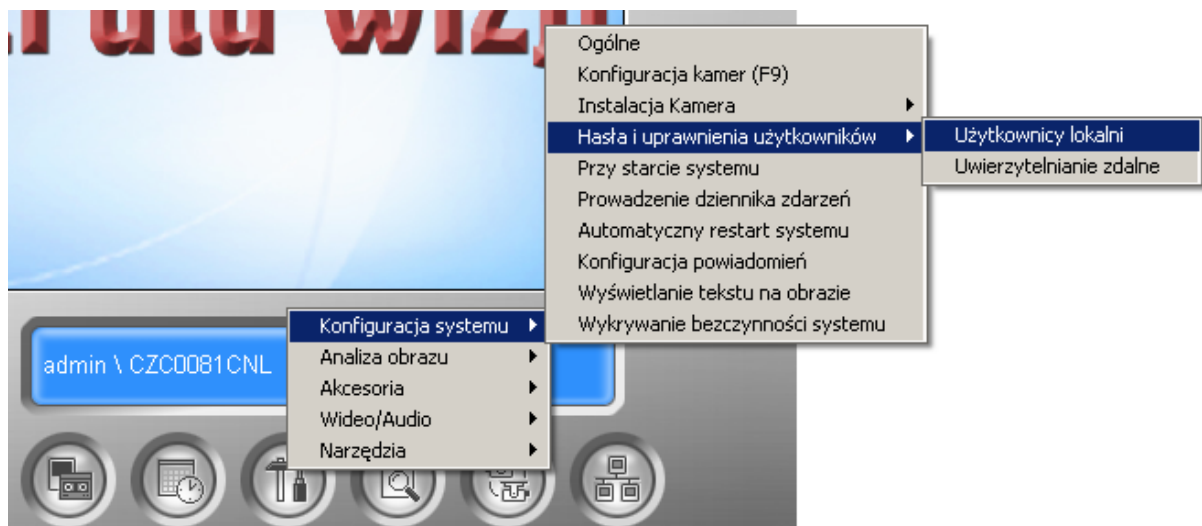

Fig. 18 Administrator account in GV600/4 card

5. Video recording
The integration requires activation of video recording from selected cameras according to fig. 19. It is not necessary to activate recording for all possible channels. It is enough to select channels with connected cameras.
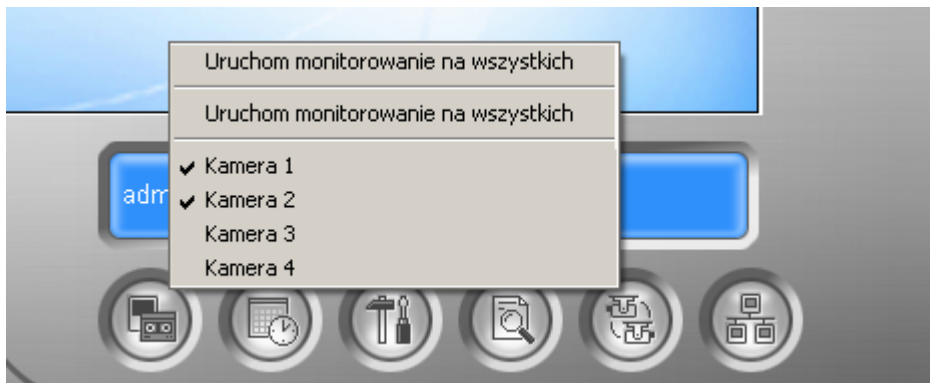
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Fig. 19 Video recording

6.   Starting of web server
The integration requires starting of web server in accordance with fig. 20. The ports, which can be configured within shown dialog box must be later entered in PR Master software. In order to start the server, the operator must just press OK button – see fig. 20.

Fig. 20 Web server of GV600/4 card

Note: GeoHTTP server may be in conflict with IIS in Windows OS. It is recommended to switch IIS off by means of iisreset /stop command or by means of Windows control panel.
Note: For the proper operation of GeoHTTP server it is also necessary to unblock all applicable ports in firewall.

7.   Minimize window, operator log out
Geovision 8.5 software can be minimized in accordance with fig. 21

Fig. 21 Minimize Geovision 8.5 window/operator log out

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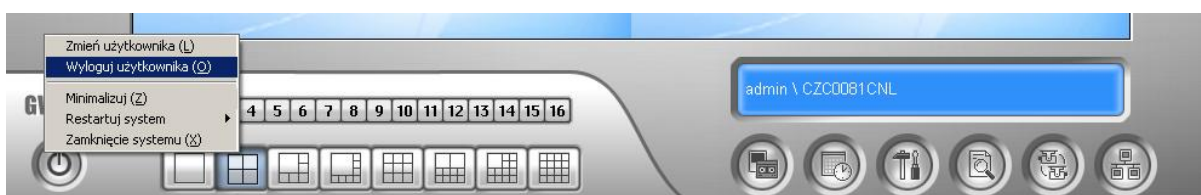Note: Within the integration, Geovision 8.5 software must be working all the time at computer with GV600/4 card. The software does not have to be started with administrator rights.

4. CONFIGURATION OF PR MASTER SOFTWARE

4.1 General information

The configuration of RACS 4 integration with CCTV can be done by means of **CCTV devices** command in main window of PR Master software – see figure 22. In general perspective, the integration consists in connection of events in access control system with video recorded by CCTV system and then downloading and displaying such video clips on request in PR Master software.

Note: It is also possible to enable automatic video clip downloading and storing by PR Master software but such scenario of operation is designed for small access control systems with limited number of events. In medium and large systems such video clip downloading my result in unnecessary duplication of recorder data and even slowing it down with excessive number of requests. It is installer responsibility to evaluate if automatic video clip downloading is suitable for particular access control system. Automatic video clip downloading is enabled when PR Master software is started with /CCTVDOWNLOAD parameter.
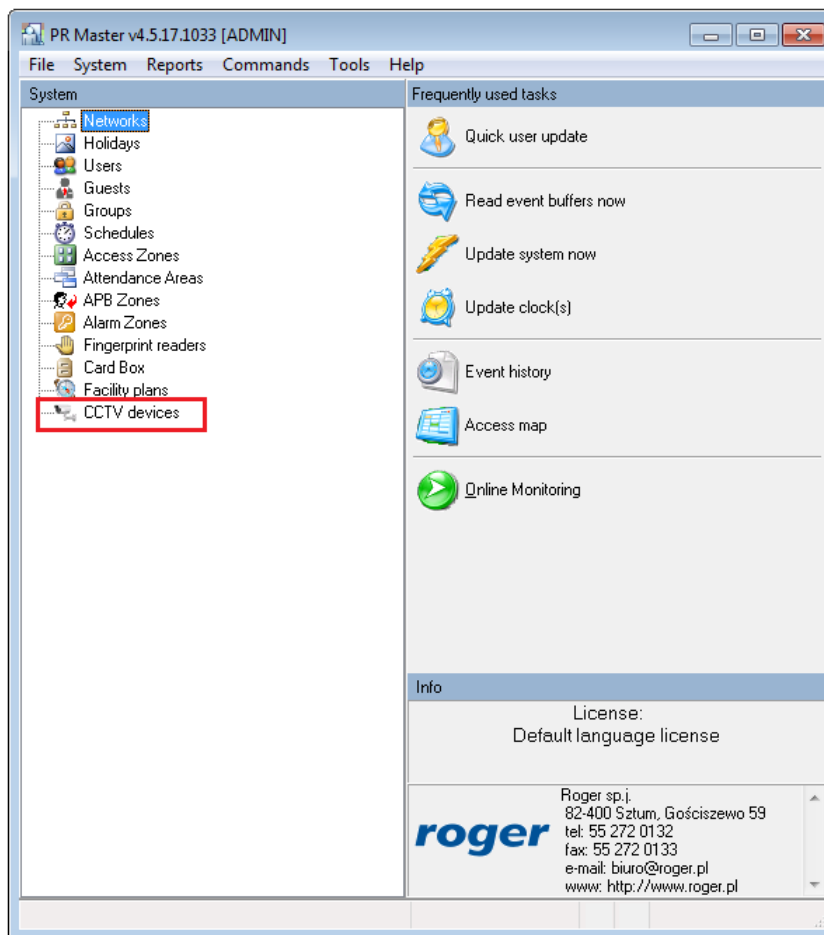

Fig. 22 PR Master main window

4.2 CCTV Devices Manager

In the main window of PR Master software, the operator can select **CCTV devices** command and open **CCTV Devices Manager** dialog box – see fig. 23. The figure shows three already added recorders.
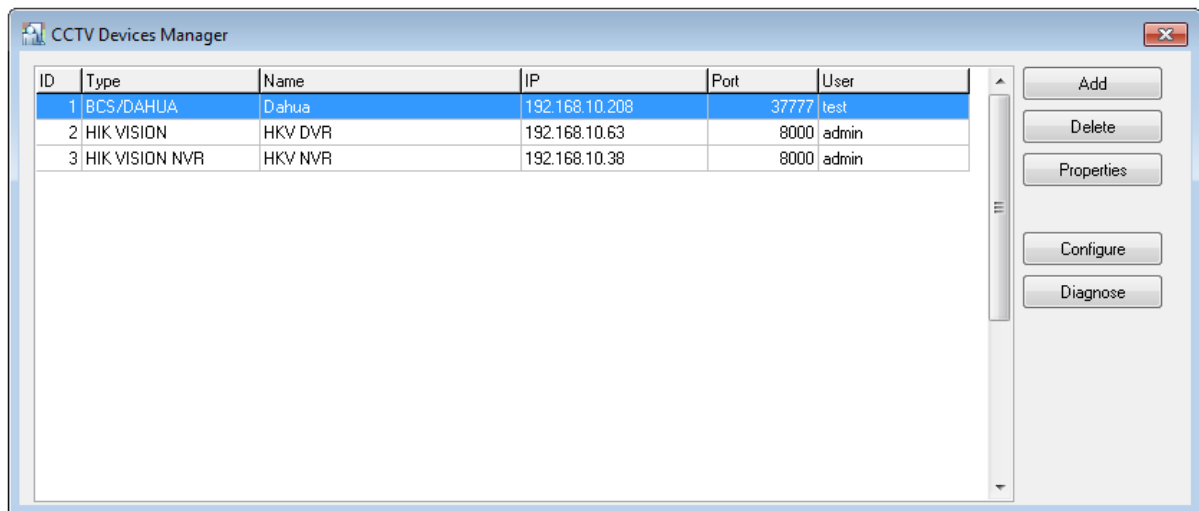
Fig. 23 CCTV Devices Manager

Following buttons are available:

- Add – enables adding of recorder to the list of operating devices.
- Delete – enables deleting of recorder from the list of operating devices.
- Properties – enables modification of already added recorder.
- Configuration – enables configuration of selected recorder i.e. association of its channels (cameras) with readers and events.
- Diagnose – enables test of connection with selected recorder i.e. log on test.

4.3 Configuration of Dahua recorder

The operator can open **Add new CCTV device** dialog box by means of **Add** button in **CCTV Devices Manager** dialog box. If the selected CCTV device type is BCS/DAHUA then the dialog box shown in figure 24 shall be displayed. In the figure there are exemplary settings, partially based on recorder default settings.

Fig. 24 Add new CCTV device – BCS/DAHUA

Following fields are available:

- CCTV device type – select recorder type from the list in this field

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- Description – enter desired name of the recorder in this field
- IP Address – recorder IP address, which can be modified during recorder configuration. Enter actual IP address of recorder in this field (see 3.1.2 Recommended recorder settings).
- Ports – recorder communication port. Default port is 37777, but it can be changed during configuration of recorder. Enter actual port of recorder in this field.
- User – recorder administrator login. Enter recorder administrator login in order to enable access to recorder.
- Password – recorder administrator password. Enter recorder administrator password in order to enable access to recorder.
- CCTV files folder – folder for storing local copies of clips downloaded from recorder. Clips can be stored locally at the computer where PR Master is installed, in another HDD partition or on a disk, which can be accessed through local area network (LAN).
- Minimum disk space on target disk – minimum disk space which must be left on disk where local copies of clips are stored. When the limit value is exceeded, a message is displayed in PR Master software. Disk space on a HDD is also controlled by Windows OS.

Note: The integration of RACS 4 and CCTV is designed for systems available in local area network (LAN). It is also possible to connect recorder directly to PC with PR Master software by means of crossed UTP cable.

4.4 Configuration of HIK Vision recorder

The operator can open **Add new CCTV device** dialog box by means of **Add** button in **CCTV Devices Manager** dialog box. If the selected CCTV device type is HIK VISION DVR or HIK VISION NVR then the dialog box shown in figure 25 shall be displayed. In the figure there are exemplary settings, partially based on recorder default settings.

Fig. 25 Add new CCTV device – HIK VISION DVR

Following fields are available:

- CCTV device type – select recorder type from the list in this field
- Description – enter desired name of the recorder in this field
- IP Address – recorder IP address, which can be modified during recorder configuration. Enter actual IP address of recorder in this field (see 3.2.2 Recommended recorder settings).
- Ports – recorder communication port. Default port is 8000, but it can be changed during configuration of recorder. Enter actual port of recorder in this field.

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- User – recorder administrator login. Enter recorder administrator login in order to enable access to recorder.
- Password – recorder administrator password. Enter recorder administrator password in order to enable access to recorder.
- CCTV files folder – folder for storing local copies of clips downloaded from recorder. Clips can be stored locally at the computer where PR Master is installed, in another HDD partition or on a disk, which can be accessed through local area network (LAN).
- Minimum disk space on target disk – minimum disk space which must be left on disk where local copies of clips are stored. When the limit value is exceeded, a message is displayed in PR Master software. Disk space on a HDD is also controlled by Windows OS.

Note: The integration of RACS 4 and CCTV is designed for systems available in local area network (LAN). It is also possible to connect DS7204HVI-ST directly to PC with PR Master software by means of crossed UTP cable.

4.5 Configuration of GV600/4 card

The operator can open **Add new CCTV device** dialog box by means of **Add** button in **CCTV Devices Manager** dialog box. If the selected CCTV device type is GV600 then the dialog box shown in figure 26 shall be displayed. In the figure there are exemplary settings, partially based on recorder default settings.

Fig. 26 Add new CCTV device – GV600/4 video capture card

Following fields are available:

- CCTV device type – select recorder type from the list in this field
- Description – enter desired name of the recorder in this field
- IP address – recorder IP address, which is actually IP address of computer, where GV600/4 card is installed. If the card is installed in the computer where PR Master is installed then it is necessary to enter 'localhost' in this field, if the card is installed in another computer then IP address of computer with GV600/4 card must be entered in this field.
- Command port, data port, audio port – ports for communication with GV600/4 card. Default values are shown in fig. 26. Ports can be changed during configuration of recorder. (see 3.3.2 Recommended card settings).
- User – recorder administrator login. Enter recorder administrator login in order to enable access to recorder.
- Password – recorder administrator password. Enter recorder administrator password in order to enable access to recorder.

- CCTV files folder – folder for storing local copies of clips downloaded from recorder. Clips can be stored locally at the computer where PR Master is installed, in another HDD partition or on a disk, which can be accessed through local area network (LAN).
- Minimum disk space on target disk – minimum disk space which must be left on disk where local copies of clips are stored. When the limit value is exceeded, a message is displayed in PR Master software. Disk space on a HDD is also controlled by Windows OS.
- Geovision storage folder – folder with installed Geovision 8.5 software. Default folder for the scenario of GV600/4 card and PR Master software both installed in the same computer is shown in fig. 26. If GV600/4 card is installed in another computer within local area network (LAN) then operator should enter location of the folder with Geovision 8.5 software (e.g. \\name_of computer_with_GV600_card\folder_with_Geovision_software). In such case the folder with Geovision 8.5 software must be shared in local area network (LAN).

Note: The integration of RACS 4 with CCTV is provided for two scenarios with GV600/4 card i.e. the card and PR Master software both are installed in the same computer, the card and PR Master software are installed in different computers within local area network (LAN).

4.6 Configuration of RACS 4 and CCTV integration

Upon selection of particular recorder, the operator can bring **CCTV Device channel** dialog box – see fig. 27 by means of **Configuration** button in **CCTV Devices Manager** dialog box.
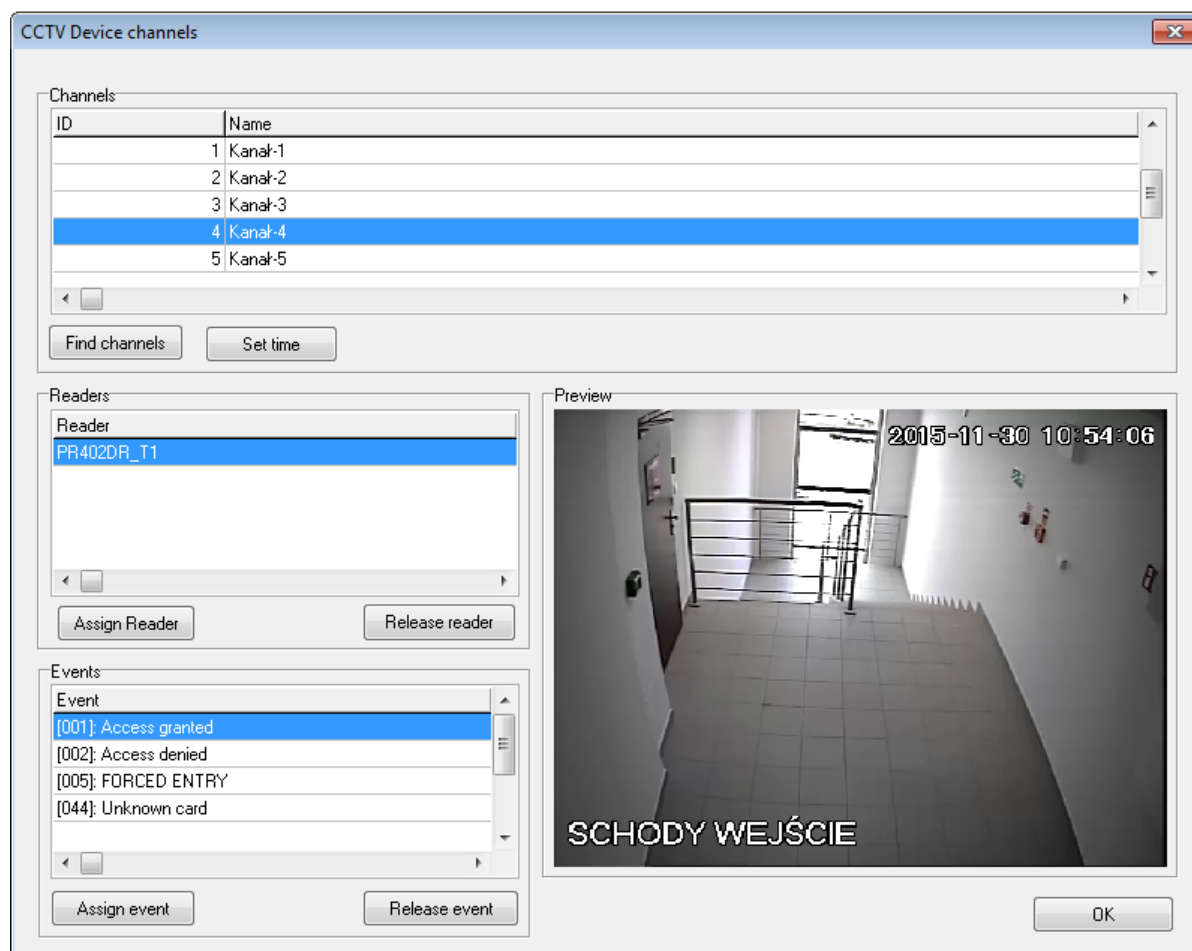

Fig. 27 CCTV Device channels

Dialog box, which is shown in fig. 27 is the same for all available recorders and it includes following areas:

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Channels

The operator can select particular channel of recorder in this area. The video from particular camera connected to that channel is shown in **Preview** area. By means of **Find channels** button, the operator can refresh list of available channels and by means of **Set time** button, the operator can synchronize manually recorder time with PR Master software time.

Readers

The operator can assign ID0 or ID1 reader of particular controller to previously selected channel by means of **Assign reader** button. The list includes controllers and readers, which were previously added within RACS 4 system (see PR Master User Manual). The names of controllers and readers can be changed in controller properties dialog boxes which can be accessed in the main window of PR Master software.

Events

The operator can assign events to previously selected channel and reader in order to enable video clips displaying for these events. By default following events are selected: **[001]: Access granted**, **[002]: Access denied**, **[005]: Forced entry** and **[044] Unknown card**. The operator can manage events by means of **Assign event** and **Release event** buttons. Removal of default events is possible.

Preview

The video from camera connected to channel selected in **Channels** area can be watched in this area.

Note: Associations which are available within CCTV device channels dialog box are limited to such configuration that single channel of recorder (camera) can be assigned to multiple readers, but single reader can be assigned only to single channel of recorder (camera).

5. USE OF RACS 4 AND CCTV INTEGRATION

After proper configuration of RACS 4 system and recorder(s) according to section 3 and configuration of integration according to section 4, the operator can proceed to use it in practical applications.

As a result of RACS 4 and CCTV integration, which in general perspective consists in connection of events in access control system with video recorded by CCTV system, new buttons were added in Monitoring mode and Event history.

5.1 Event history in PR Master software

The operator can access Event history event from the main window of PR Master software (see fig. 28). More information on Event history is given in PR Master User Manual which is available at www.roger.pl.
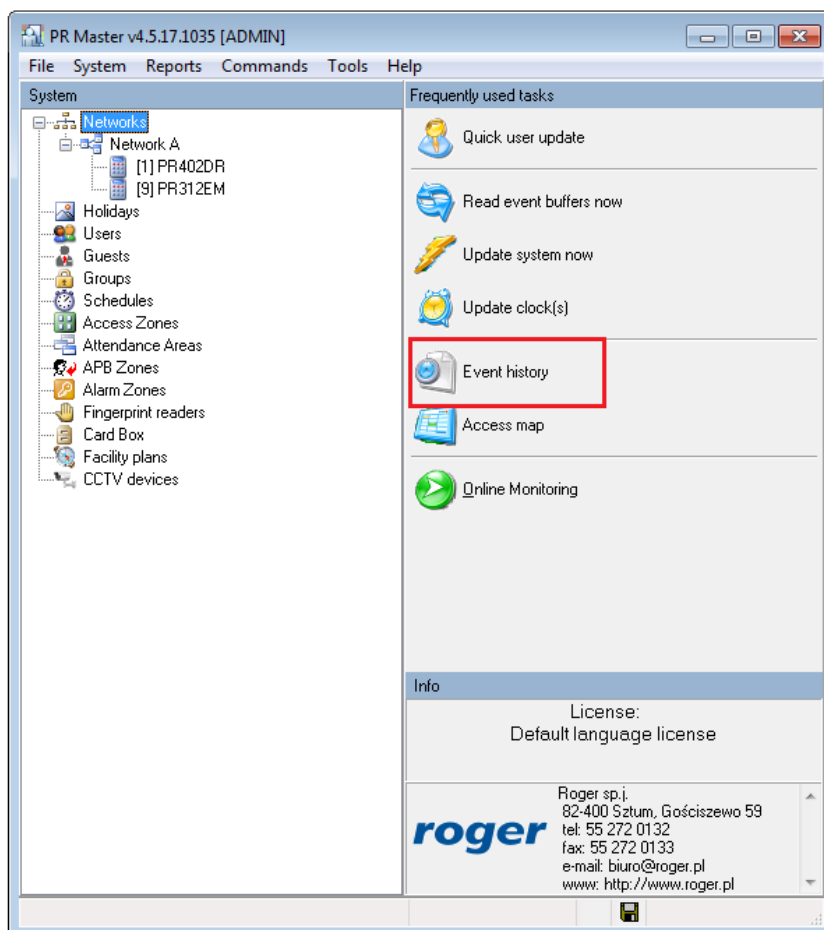
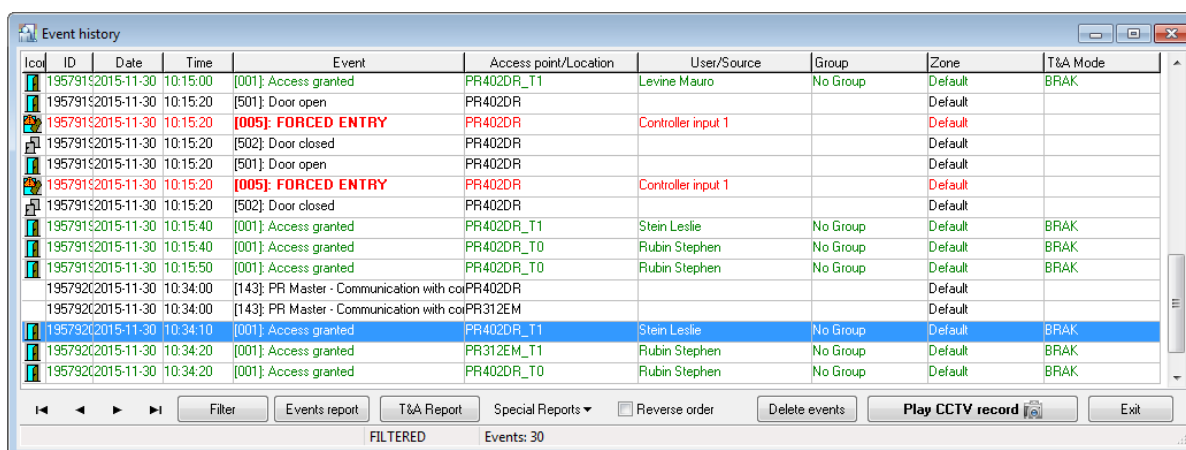Fig. 28 The main window of PR Master software – Event history

Fig. 29 Event history window

In fig. 29 Event history window is presented, where **Play CCTV record** button is available. The button is disabled for events, which were not selected during configuration described in par. 4.6.

Note: CCTV recorder usually records video files at its disk when specific amount of data in its buffer is collected. Therefore clip associated with particular event might not be available immediately after the actual event and it might be required to wait up to 1 minute until possible download in PR Master software.

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5.1.1 Video Player

Upon selection of particular event with recorded clip, the operator can bring **Video Player** dialog box by means of **Play CCTV record** button in **Event history** window – see fig. 30.
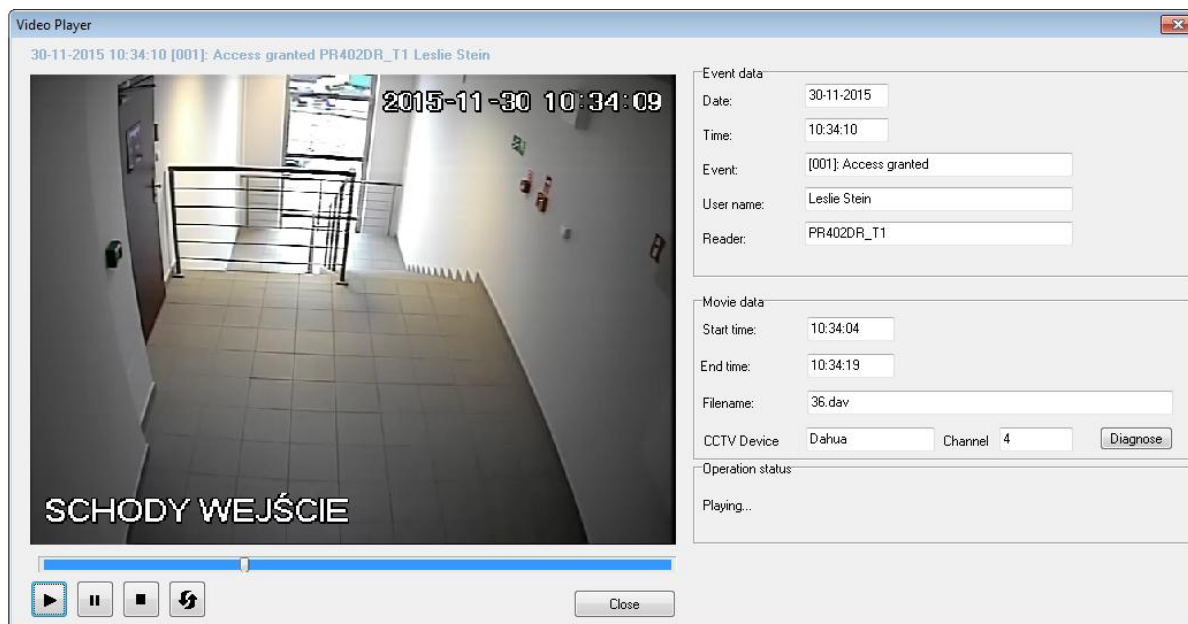

Fig. 30 Video Player

Following areas are available within **Video Player** dialog box:

Event data
The area includes all information related to previously selected event, such as date, time, event type, user and reader.

Movie data
The area includes all information related to video clip associated to the event specified in the area Event data including start time, end time, filename, CCTV device name and channel. The area includes also Diagnose button, which enables test of connection with recorder i.e. log on test.

Operation status
The area includes information on video clip status.

Player area
The area includes video clip player with following buttons:

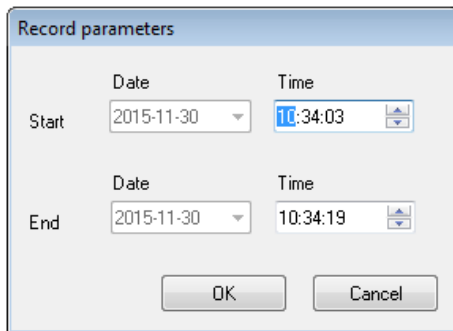| Table 1 Video Player buttons		
Button	Name	Function
▶	Play	Play the video clip
❚❚	Pause	Pause the video clip. The progress indicators stops when the button is pressed.
■	Stop	Stop the video clip. The progress indicator returns to the start of clip when the button is pressed.
↻	Manual download/ Adjust clip time	The button can be used to download video clip manually from recorder. The operator can also use this button to extend or limit video clip time. When the button is pressed a dialog box shown in fig. 31 is displayed. If it is required to adjust video clip time by a few seconds then just select seconds and use arrows to set the time.

Fig. 31 Video clip manual download/time adjustment

Note: In case of integration with GV600/4 video capture card it is possible to pause the video clip and save picture from the clip by clicking player area with right mouse button and selecting adequate option.

5.2 Online monitoring in PR Master software

The operator can access Online monitoring mode from the main window of PR Master software (see fig. 32). More information on Online monitoring mode is given in PR Master User Manual, which is available at www.roger.pl.
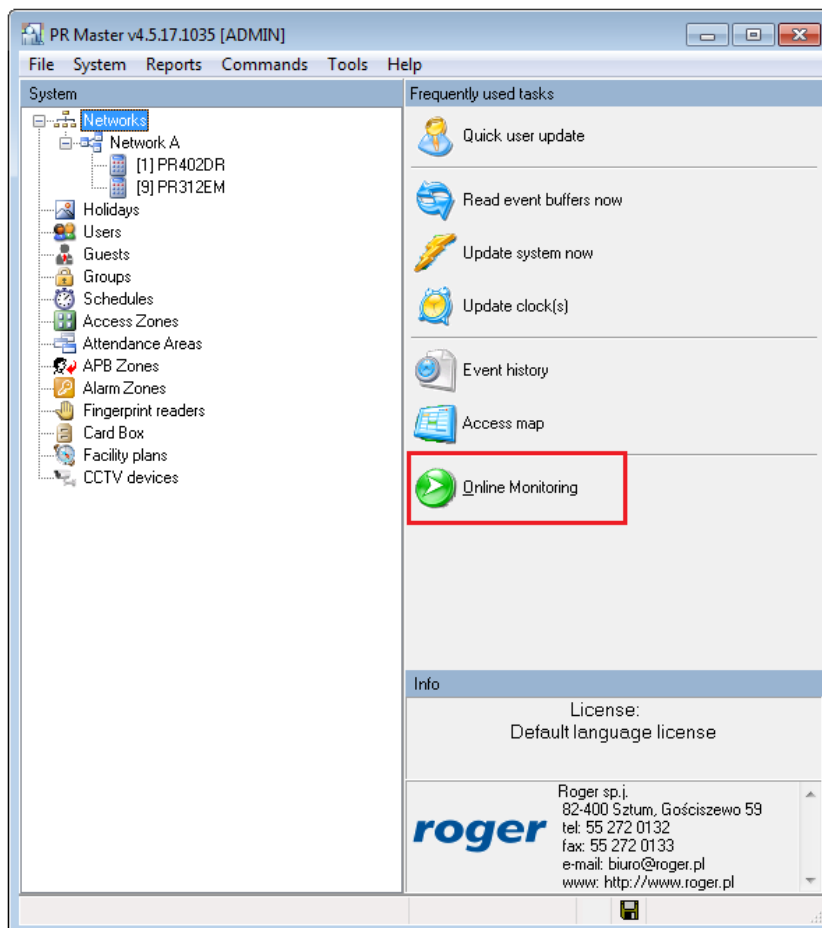

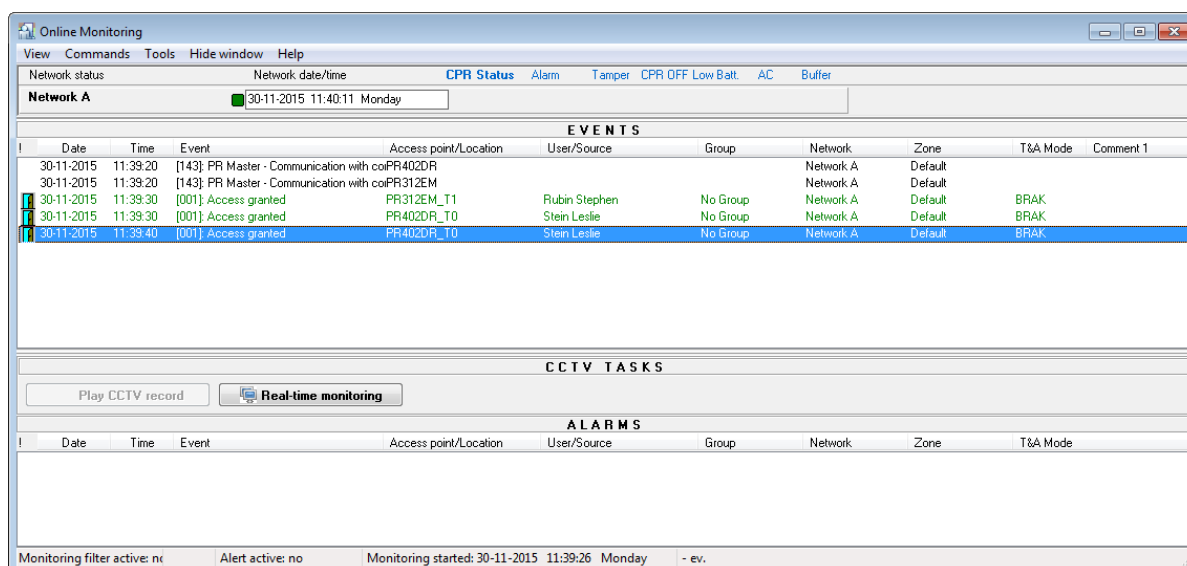Fig. 32 The main window of PR Master software – Online monitoring

Fig. 33 Online monitoring mode

In fig. 33 Online monitoring mode window is presented, where **Play CCTV record** and **Real-time monitoring** buttons are available. **Play CCTV record** button is disabled for events, which were not selected during configuration described in par. 4.6.

Note: CCTV recorder usually records video files at its disk when specific amount of data in its buffer is collected. Therefore clip associated with particular event might not be available immediately after the actual event and it might be required to wait up to 1 minute until possible download in PR Master software.

5.2.1 Video Player

Upon selection of particular event with recorded clip, the operator can bring **Video Player** dialog box by means of **Play CCTV record** button in **Online monitoring** window – see fig. 30.

Play CCTV record button in Online monitoring mode functions in the same way as **Play CCTV record button** in Event history (see 5.1.1 Video Player).

5.2.2 Real-time monitoring

Upon pressing of **Real-time monitoring** button in **Online monitoring** window the operator can bring **Real time monitoring** dialog box – see fig. 34.
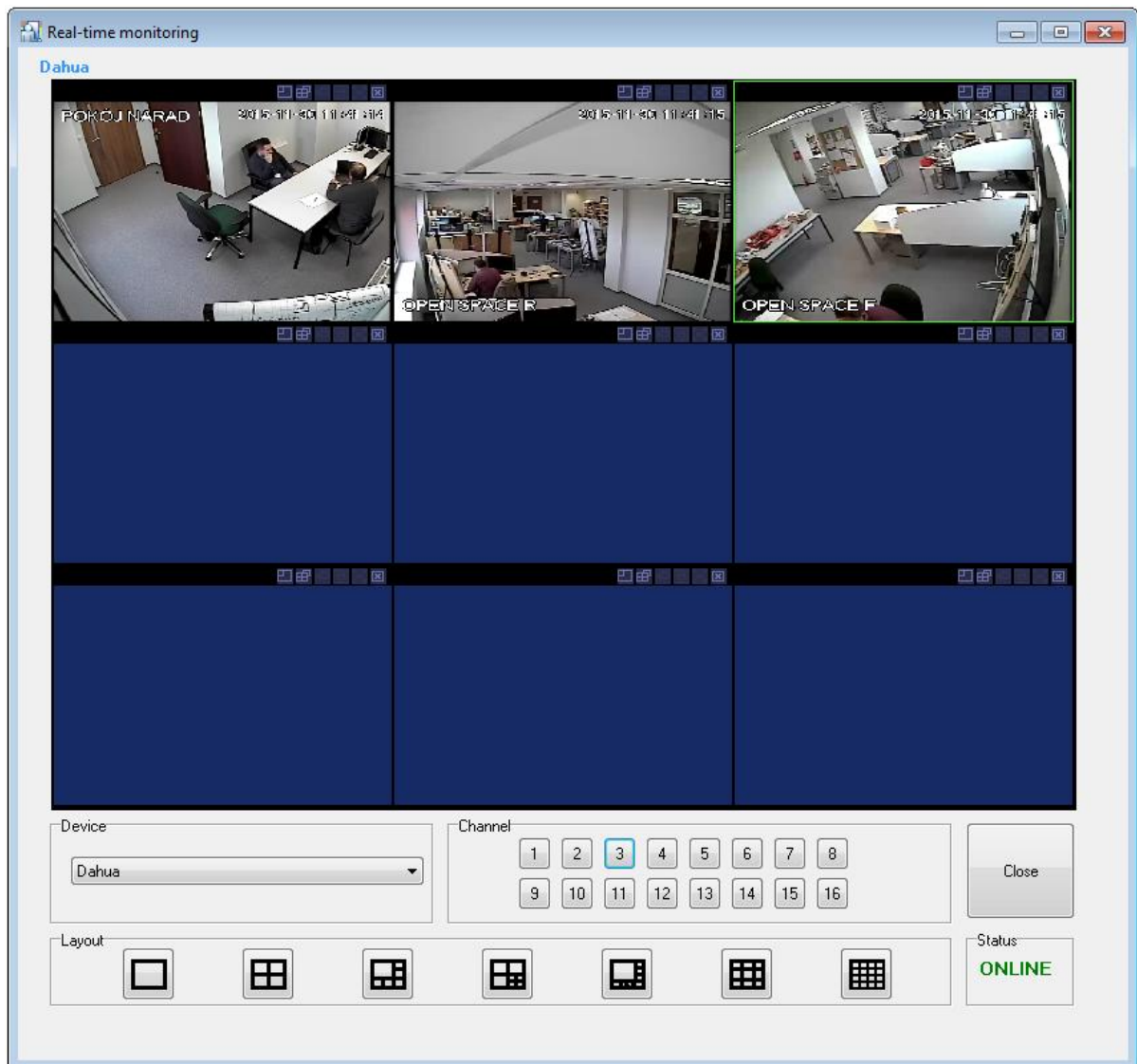
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Fig. 34 Real-time monitoring

The dialog box shown in fig. 34 includes following areas:

Video stream area
The area includes real time video from cameras connected to recorder. In case of standalone DVRs and NVRs, the operator must select one of available locations and then select the channel in Channel area in order to watch real time video from particular camera. In case of GV600/4 card, the real time video is displayed automatically.

Device
The operator can use the list to select previously configured and connected recorders.

Channel
The area includes recorder channels which can be viewed in Video stream area.

Layout
The operator can select layout of video channels in this area.

Status
The area includes status of connection with recorder. Online status signifies successful connection while Offline status signifies connection problem.

5.3. General guidelines

Following guidelines has to be considered within the integration of RACS 4 and CCTV:

- Lack of video clip or its part as well as no access to recorder may result from incorrect configuration of device or from lack of recorded video in recorder (video had been overwritten or not recorded at all as 24h/7d recording had not been selected.

- CCTV recorder usually records video files at its disk when specific amount of data in its buffer is collected. Therefore clip associated with particular event might not be available immediately after the actual event and it might be required to wait up to 1 minute until possible download in PR Master software.

- In case of some recorders (e.g. DVR0804LE-A), if operator enters wrong password in **Password** field at **Add new CCTV device** dialog box (see 4.3 Configuration of Dahua recorder) and sends it 3 times to the recorder within 30 minutes then his account shall be blocked. In such case it is necessary to restart the recorder in order to unblock the account.

- The integration of RACS 4 and CCTV is guaranteed for devices within local area network (LAN). Operation in wide area network (WAN) is possible and was tested with positive results abut it is not guaranteed by Roger.

- By means of button in Video Player dialog box, the operator can download clips manually if they are deleted by mistake and adequate recording is still available in recorder.

- In case of GV600/4 video capture card the Geovision 8.5 software must be started at computer, where GV600/4 card is installed in order to ensure downloading of clips by PR Master software.

Contact:
Roger sp.j.
82-400 Sztum
Gościszewo 59
Tel.: +48 55 272 0132
Fax: +48 55 272 0133
Tech. support.: +48 55 267 0126
Tech. support (GSM): +48 664 294 087
E-mail: biuro@roger.pl
Web: www.roger.pl