

Intelligent Security & Fire Ltd

DVR Help

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Welcome

Congratulations on selecting the latest Pandora DVR system.

What's new

There is a new help file for Pandora's latest features.

We welcome your feedback on features you would like more information on.

Version 4.10 brings a bunch of new features to Pandora DVR.

We are proud to introduce the following new features:

- Time Lapse camera
- Panoramic Camera
- Visitors System
- New rules
- Redesigned Help

The new features in Pandora DVR make it one of the most advanced systems available combined with being very user friendly.

Glossary

Some terms and abbreviations used in this document.

CSV	Comma Separate Values - a file format for easy data transfer
GUI	Graphical User Interface
LMB	Left Mouse Bbutton
Machine	DVR service for video capturing, recording and playback preparation
MMB	Middle Mouse Button
MultiServer	Software that allows the integration of a set of DVRs into one system.
Remote Client	The Client DVR software running on other than DVR computer
RMB	Right Mouse Button
Server	DVR service allowing control and integration of all DVR components

Getting Started

Before starting your DVR please read the general information about Pandora DVR
Information about administration and configuration can be found in the Administrator Guide.
To use Pandora DVR please see the User Guide.
The first time you run Pandora DVR see First Run.

System requirements

Pandora DVR is hardware configured.

For a remote Client, the computer needs to be at least a 2.5 GHz Pentium dual core processor with 2 GB RAM.

Hard disk space of at least 100 MB.

The system is designed to run on Windows XP. We have heard that it will also run on Vista and Windows 7.

Getting help

To get help press F1 key.

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User Manual

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About DVR

Pandora DVR is not only a video recorder but contains a lot of additional features allowing users and administrators to perform more advanced tasks. See the Features Page for new features.

Pandora DVR consist of a set of components from which the administrator can build a powerful data centre,

The components are:

- Hardware components
 - Compression cards
 - DVR and computers
 - Routers
- Software components
 - Server
 - Machine
 - Client
 - DVR Guard
- Functional components
 - Database
 - Rules
 - Search engines
 - Communication protocols

Pandora DVR components

There are the following components to Pandora DVR.

Database	Contains both system and footage information
Server	Database access and other components management
Machine	Video card access and footage saving
DVR Guard	DVR system management (configuration and control)
Client	User interface
Configurator	Setup cameras and other devices
Players	Separate programs for playback footages
Administrator tools	Database management and repair
Licensing	Toll for installing licenses
Help	

Most of them are located in the DVR file system.

DVR Configurations

This DVR is an advanced system for collecting, searching and maintenance of surveillance footages. DVR has modern Client-Server scalable architecture allowing to save your investments. One can start from standard features and extend it by adding new cameras or adding new features. The software is constantly developed and every new versions brings new features. DVR components can exist in different configurations. The DVR software can be licensed in one of DVR versions.

This DVR is not only the single hardware system but it can be extended to very powerful surveillance data centre containing set of computers bounded by Ethernet links. There can be following collaborating devices:

- DVR itself
- Remote Client
- MultiServer
- IO boxes
- Data sources
 - Serial port Devices
 - Networked computers
 - Biometric sensors
- Data recipients
 - Serial port devices
 - Network sockets
 - System pipes
 - Third party DLLs
 - File system

See DVR Guard for configuring Pandora DVR, Remote Client and MultiServer.
See Configurator to setup other components.

DVR Versions

Versions

Pandora DVR exists in the following versions:

- Professional - for most surveillance demands
- Command - with advanced support for the security guard team
- EPOS - when you need to support your Point of Sale
- Enterprise - contains all advanced DVR features.

Professional

Main Features:

- Up to 48 channels H264 recording 4CIF, 2CIF, CIF @ 1 to 25(30) fps
- Dual screen display with easy Drag&Drop user interface
- WYSIWYG configuration of recording and display parameters.
- Mouse and/or console driven PTZ.
- TimeLine for each camera with instant playback
- Powerful networked Client-Server architecture
- 8 input and 8 output IO Box
- Overlay display for high quality big plasma screens
- Free of charge unlimited number of remote clients
- Simultaneously real-time audio and video recording, live display, playback, print and burn.
- Simultaneous playback from the same or different moments from the same or different cameras with different speeds.
- Masked motion detection, IO alarm, keyboard key can cause:
 - PTZ moving to presets
 - Change recording parameters like fps or quality .
 - Save events in database
 - Activate output
- Easy search footages by:
 - Date/time
 - Motion detection
 - Motion in macropixels
 - 9 screenshots matrix
 - IO events
 - Database events
 - Activity events

- One button archive of footages, snapshots on DVD, USB disks or any local or remote printer .
- Password protected user profiles for local and remote clients
- Disk usage monitoring allowing to optimize and estimate recording time. A typical environment allows 30 days retention of 16 channels on 2 TB system
- E-map with real time motion detection and IO changes display
- Password protected remote configuration of all settings.

Other Features:

- Router-less and Router and NAT access
- Remote Client layouts allowing it to run on a Laptop
- Temporary disable inputs
- Time server synchronization

EPOS = Standard + EPOS features

EPOS Features :

- Full configurable users permissions
- Above 220 IO inputs and outputs
- Bar code scanner reads can appear on footage and be saved as events in the database
- Hierarchical E-map with real time motion detection and IO changes display
- Email with screenshots or footage
- Multi-Server allowing you to join DVRs into one system having 500 or more cameras
- Till or fiscal/receipt printer tracking module for cashier activity monitoring
- Extended to standard advanced search footages by POS events like:
 - Cash refund
 - Returns
 - Payments
 - and more ...
- EPOS module for advanced reporting has
 - Sales person activity report
 - Average sales time per person / till / time
 - Other sales statistics

* EPOS configuration can demand 3-4 weeks advance order and present POS protocols used in fiscal/receipt printers. Contact sales support for request evaluation form and details.

Command = Standard + Additional features

Additional Features :

- Full configurable users permissions
- Above 220 IO inputs and outputs
- Hierarchical E-map with real time motion detection and IO changes display
- Email with screenshots or footage
- Remote DVR access
- Multi-Server allowing to join DVRs into one system having even 500 or more cameras
- Panoramic Camera allowing to join two camera into one panoramic view
- Alarm helpers
 - Alarm and action scenarios
 - Alarm response memos
 - Alarm instructions for each single or group alarm/action
- Extended search footages by:
 - Alarm types and reactions
 - Alarm response
 - Shift change
- Visitors – Employee – Vehicle management
 - Visitors management – Control
 - Single Gate or Multi-Gates entries
 - Manual – Barcode Reader – Camera badge scan *
 - Badge printing
 - Any printer support (thermal, laser , ink ...)

- Guard concise control
 - Random time presence checking
 - Private or business issues for absence mode
 - Single password- multi guard persons support
 - Extended events when guard is not present (email, alarm ...)
 - Panic/aggression button

Enterprise = Professional + EPOS + Command
All above features

* future version

Disclaimer: not all features are present on each hardware compression card.

Version comparison

Version comparison

Rule's output action

	Professional	Command	EPOS	Enterprise
Dummy	x	x	x	x
Fire rule		x	x	x
Camera set alarm	x	x	x	x
Camera PTZ	x	x	x	x
Camera settings	x	x	x	x
Camera snapshot	x	x	x	x
Camera Movie	x	x	x	x
Camera Text Out		x	x	x
Client Message	x	x	x	x
Client Checked List		x		x
Visitor Barcode		x		x
Serial Out		x	x	x
Pipe Out		x	x	x
TCPIP out		x	x	x
DLL call				x
IO Out	x	x	x	x
Email	x	x	x	x
Print	x	x	x	x
File		x	x	x
Stopwatch		x	x	x
Timer		x	x	x
Counter		x	x	x
Summator		x	x	x
InMessage				x

Rule's input events

	Professional	Command	EPOS	Enterprise
Dummy	x	x	x	x
System	x	x	x	x
Camera motion	x	x	x	x
Pipe In		x	x	x
Serial In		x	x	x
TCPIP		x	x	x
Barcode read		x	x	x
Fiscal Printer			x	x
Calendar		x		x

Other

	Professional	Command	EPOS	Enterprise
Operator		x	x	x
Absence mode		x		
Time Lapse	Included in licensed channels	separate from license channels	separate from license channels	separate from license channels
Panoramic Camera	Included in license channels			
Barcode reader		x	x	x
Fiscal printer			x	x
MultiServer		x	x	x
IO Box	One	unlimited	unlimited	unlimited
events and actions	see above	see above	see above	see above
E-map window	Single	up to 4	up to 4	up to 4

DVR Features

Main features of the DVR.

New Features

- New camera types
 - Time Lapse camera
 - Panoramic camera
- New Input channels
 - Serial port
 - Network socket
- system pipe
 - New Input Devices
 - Message view
 - Barcode Reader
 - Fiscal reader
- New output channels
 - Serial port
 - Network socket
 - System pipe
 - DLL call
 - File system

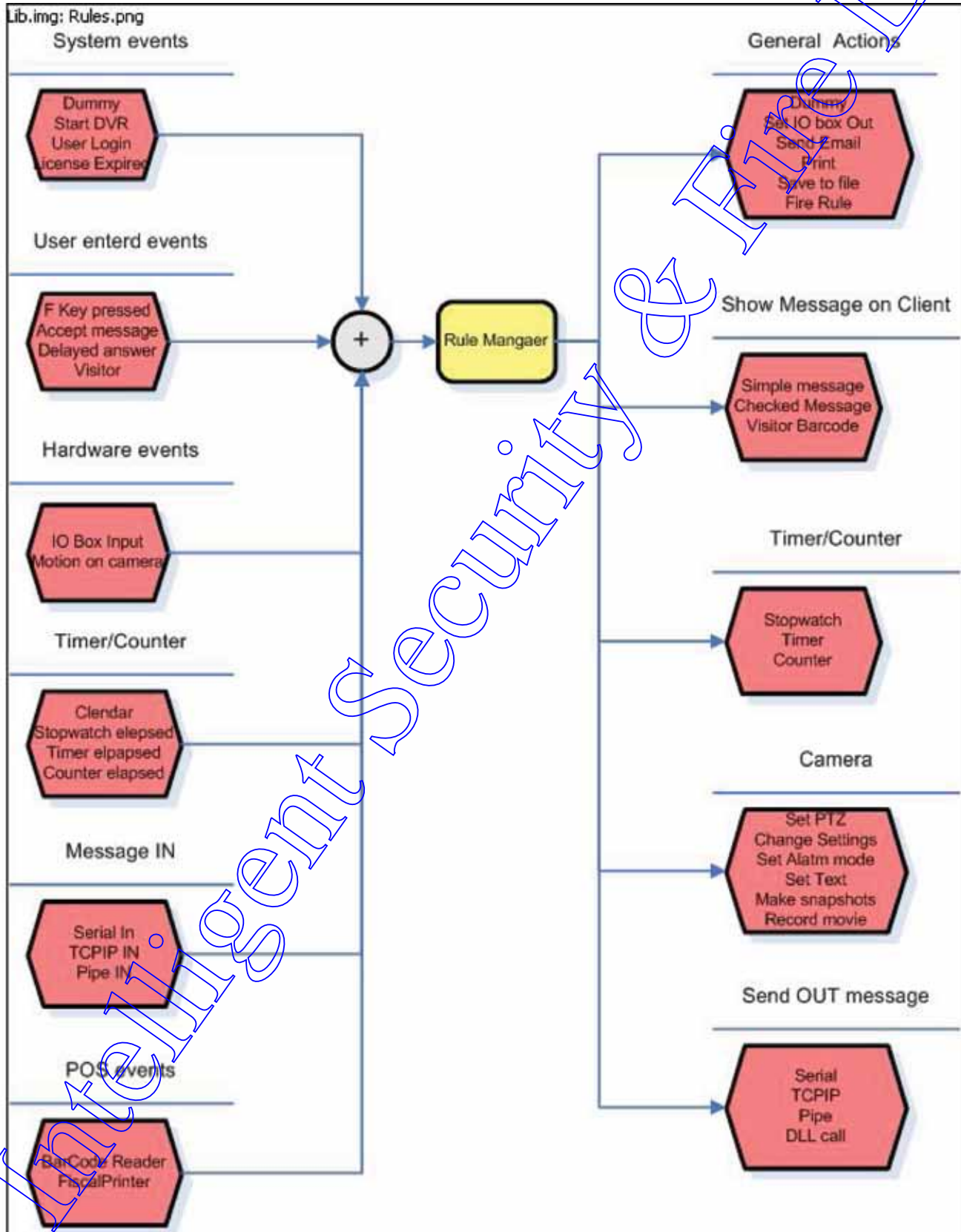
- New rules
 - Event sources from
 - keyboard FKey
 - timers and counters
 - Camera (no)motion
 - IO input
 - Barcode events
 - Fiscal events
 - system events
 - and more ...
 - Output actions
 - show message to user
 - email and print messages , snapshots, footages
 - embed message on recorded footages
 - set IO outputs
 - send message trough serial, network and pipe
 - start timer or counter
 - and more ...
- DVR Help

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Rules

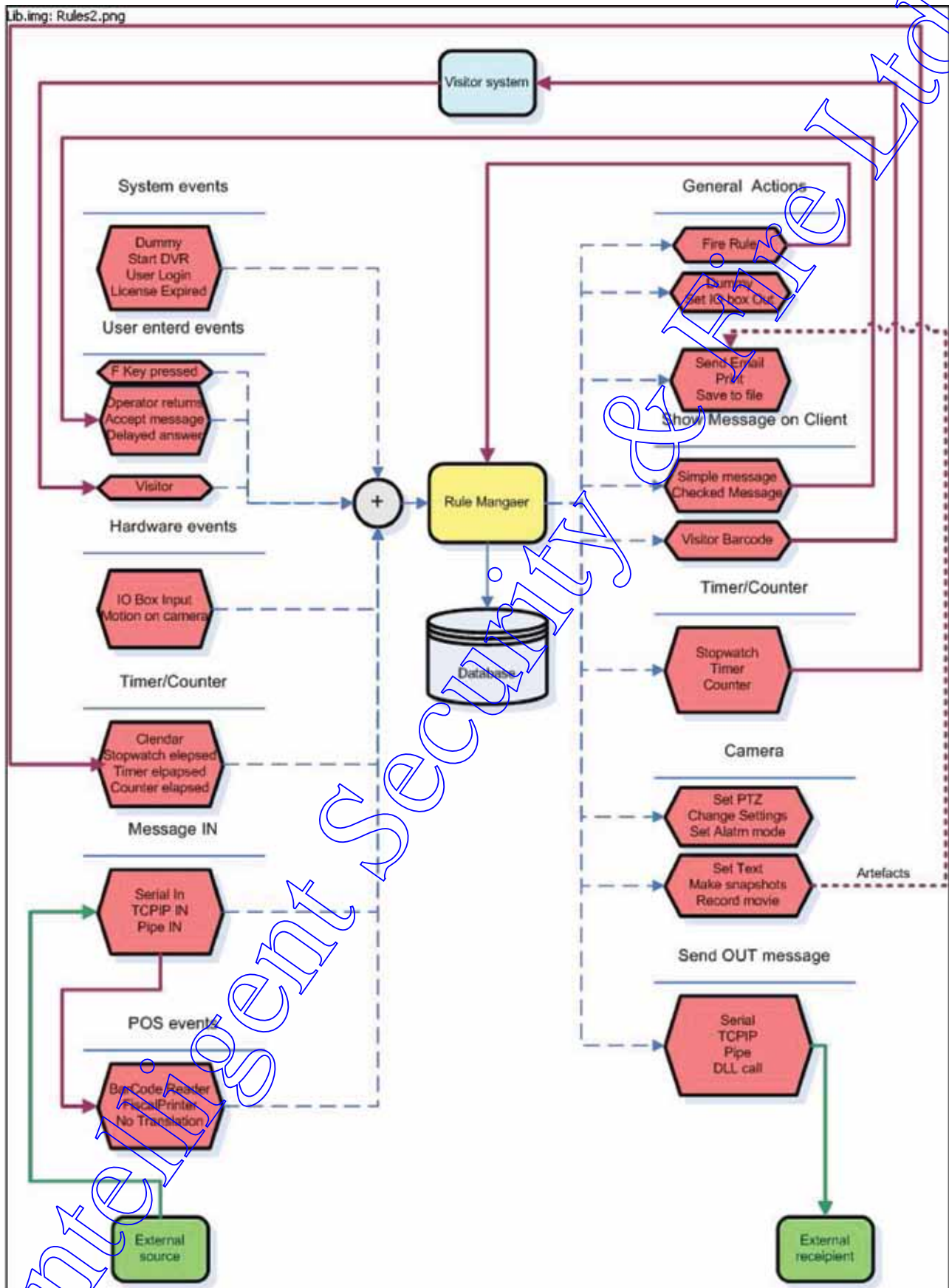
Rules is very powerful technology allowing the automating of DVR functionality. In fact the Rule is a structure containing a set of Input Events that fire the rule and set Output Actions what will be performed when any of the Input Event are detected.

Basic rules relations:



Input events and output actions have an influence on the DVR state.

Rules collaboration with other DVR parts:



Rules are created in DVR Configuration.

Counters, Timers and Summators

Counters

The rules system gives you the ability to create system wide counters. This is a system that can count events . It can be used for example to count how many times a gate has been opened

Timers

There are two types of timers

- Single timer - performs action after entered time
- Repeat timer - firing event at a preset time interval

Summators

There is special type of counter that adds values. It can be used e.g. for counting how much money is received at the point of sale.

Translations

A set of input events that can take messages sent from other devices by serial port or system pipe or TCP/IP. These messages can be created by other devices in a form hard to read by humans. We have introduced a Translation Technology, that can translate symbolic or computer messages into a human readable form.

The translation can be provided in two forms:

- translation data - where small amount of data is translated
- translation file - where more data need to be translated or translations are used in more than 2-3 devices

Translation files and data have the same format and it is the CSV (comma separated values).

Sample of translations data

111, three ones
666, evil
\$, dollars
\$\$, more dollars
one one one, 111
"coma,comma", comma ,,, commas

Professional

Pandora DVR Professional

Input Devices (external DVR Event sources)

Pandora DVR can keep video footage integrated with external event sources. An external event source can be used with any program or service that can produce one of the following streams:

- Serial port stream
- TCP/IP stream
- Operating system pipe streams

The data format can be following

- Raw data
- CSV (Comma Separated Values)
- XML

Data sent and received can contain one or more of following components (the order is fixed):

- Message ID
- Value1 (usually integer)
- Value2 (usually decimal)
- Text
- XML

or can be fully XML serialized class InputMessageParams (the source of class can be send by request).

The following encoding can be recognized by DVR

- ASCII
- UTF8
- Unicode(UTF16)

For XML messages only Unicode can be applied

As an output action of DVR one can select following:

- Send message trough Serial Port
- Send message trough TCPIP link
- Send message trough system pipe
- Call specified function in the user supplied DLL (dynamic link library)

TimeLapse Camera

The TimeLapse camera allows a special recording type where frames are taken at prefined intervals (usually about a minute or more).

It can be used for two main reasons:

- to make movies of slow or very slow changing phenomena like:
 - growing of plants
 - changes in clouds
- to observe global changes in the big picture not focusing on details, like
 - the flow of people in large buildings
 - building of new constructions

The data source is the normal footage from any camera taken in the normal way and, in parallel, the video frames are saved as TimeLapse camera footage.

One can play TimeLapse camera footage selecting it from the search screen on the Client.

Warning for Standard configuration.

The TimeLapse Camera is treated as a standard camera, so it is counted in the licensed cameras. If all card cameras are selected as active then your license may disallow you to start the TimeLapse camera.

Panoramic Camera

The Panoramic camera allows you to join two different cameras into one preview stream. It can be useful for observing video areas like:

- parking places
- building front or yard

Configuration and fitting of the Panoramic Camera can be done by the Client.

Warning for Standard configuration.

The Panoramic Camera is treated as a standard camera, so it is counted in the licensed cameras. If all card cameras are selected as active then your license may disallow you to start the Panoramic camera.

Command

Pandora DVR in the Command version allows you to:

- Recorded footage can be integrated with
 - IO sensor changes
 - Visitors entry/exit
 - Keyboard input
 - ...
- Visitor management
 - Single and multi gate mode
 - Badge printing
 - Monitor entry and exit employee
 - ...
- Setup automatic reaction on events like (see samples)
 - Fire alarm
 - Proximity sensors events
 - ...
- Sending email with movie fragments or snapshots or printing it
- Setup alarm escalation scenarios (see samples)
- Sending predefined messages to other Clients
- Guard concise checking

Setting up of the alarm escalation scenarios is as simple as 123:

- Select input type
- Define output action
- Prepare escalation scenarios documents
- Setup rules

EPOS

EPOS version contains support for

- Barcode reader
- Fiscal/receipt printer

It contains a database of each EPOS event that are linked to the recorded material.

There are also global and local counters and summators that can provide alarms after achieving a predefined value.

e.g. it can cause an alarm when a payment are above £1000 is recorded, or when the amount of sold items is greater than a set amount per day.

Pandora DVR System configurations

Pandora DVR system can be configured as

Standalone DVR

MultiMachine DVR - one server more machines (we know installations with 4x32 channels machines)

MultiServer DVR - few DVRs and MultiServer

For all of the above configurations we can have a Remote Client

Pandora DVR User modes

Pandora DVR can be run in two local modes that are selected by the Operating System user:

User Mode

Administrator Mode

The privilege of the current user depends on the selected mode.

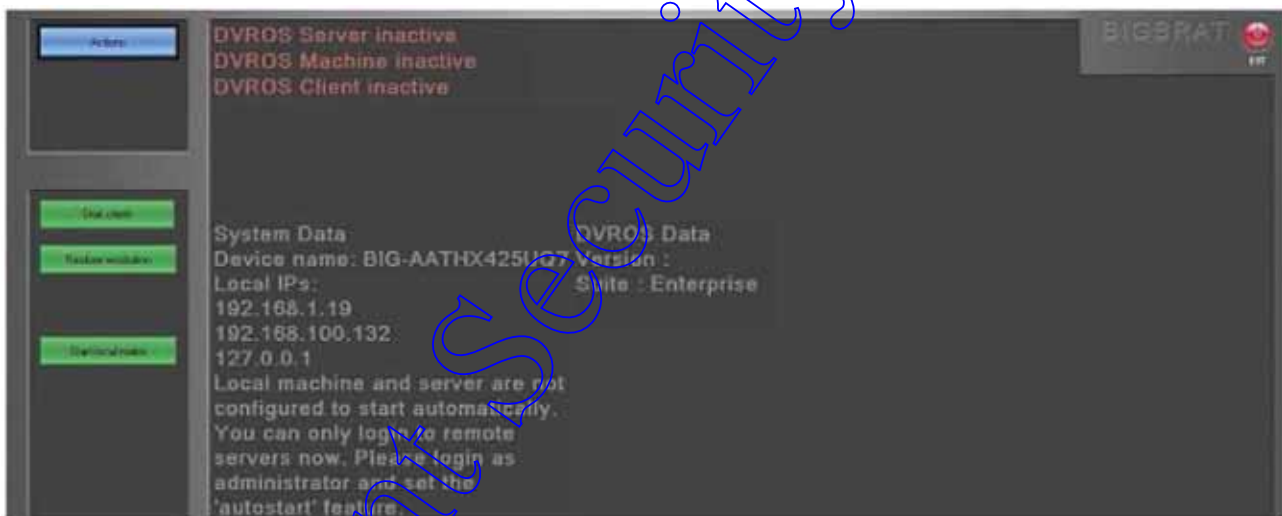
User mode

The standard and default mode for running Pandora is the USER mode. In this mode the user has access to the GUI.

Direct access to administration of the system is not available.

User mode starts automatically after reset or powering up of the Pandora DVR.

Privileges of the particular user can be set in the user administration pages of Configurator



At this screen the user has access to the following actions:

Start Client – starting the Client program.

Restore Resolution – when a Plug & Play monitor changes the screen resolution this button allow the user to force it to restore it to the desired 1280x1024 value

Start local matrix – starting local matrix service, this button can be used only when the DVR Guard is not running on the DVR (as remote access)

Pressing the Exit button prompts for the Login that allows you to change the mode to ADMINISTRATOR.

Administrator mode

To maintain the system and set the parameters the ADMINISTRATOR mode must be used.

Entering in the ADMINSTRATOR mode is password protected.

The factory defaults are as follows

The login is “**administrator**” and the password is “**super**”.

It is strongly advised that you change the administrators password before normal usage of the DVROS (see **Configuration of DVR**).

DVR specification

Detailed specification

Video and Audio	
Camera and Audio Inputs	4,8,16,24,32,48 channels
Recording resolution	CIF , 4CIF
Recording fps	up to 25(30) on all channels
Recording standard	PAL, NTFS
Adaptive recording fps to motion detection	YES
Compression	H264
Playback	
Playback fps	up to 25(30) on all channels
Playback resolution	CIF , 4CIF (as recorded)
Search	
Time, Motion detection, macropixel motion, events	YES
PTZ	
Protocols	Pelco P , Pelco D, + 6 more
Apply to camera	all supporting

Licensing

Pandora DVR is protected by a USB Key plugged into the DVR.
It contains digitally signed files describing current installation. The license file is valid only with its USB disk.

There are two files containing bought configuration:

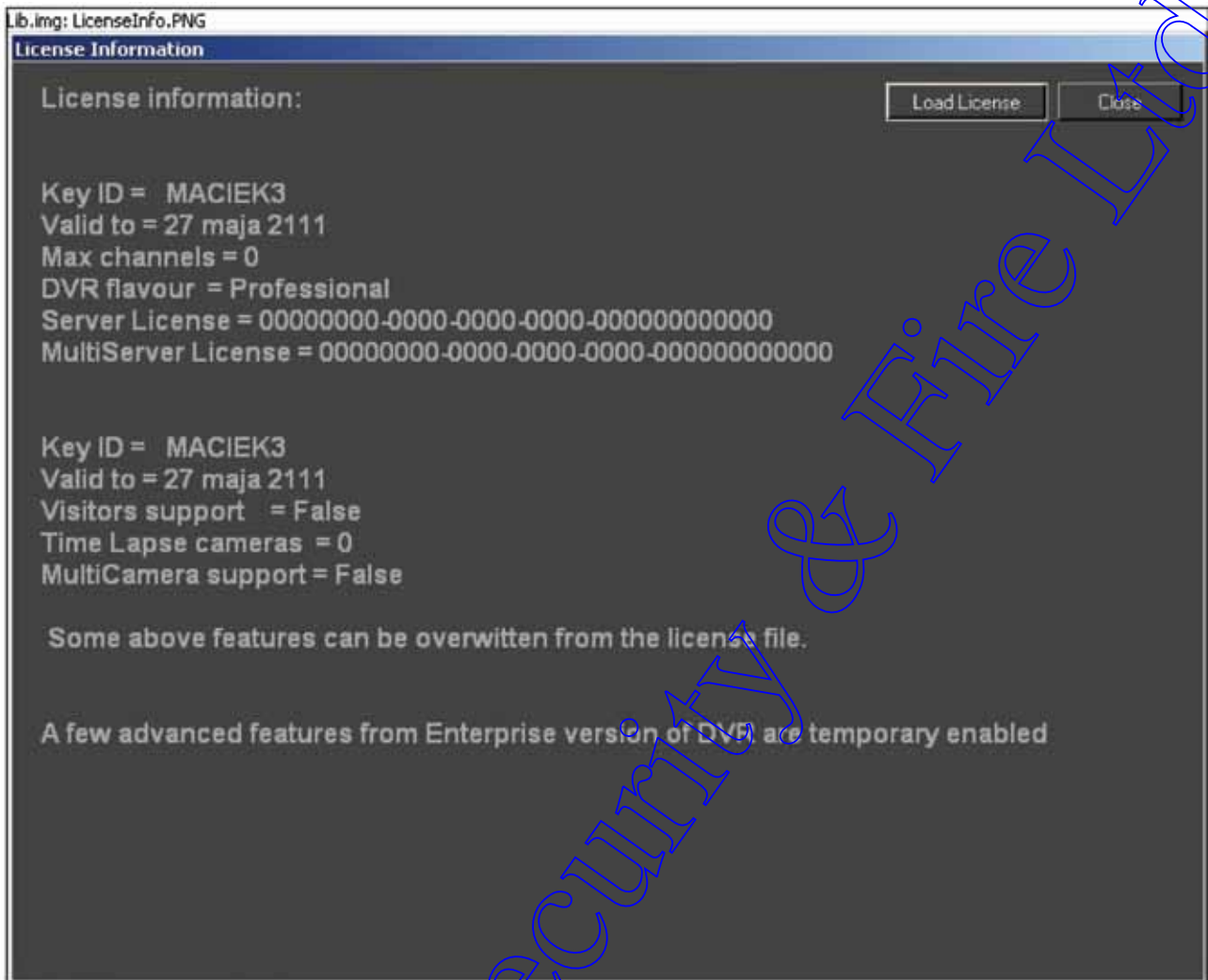
- License.xml
- Features.xml

License file can be saved in the safe place to restore it when it will be accidentally corrupted.
Files cannot be edited.

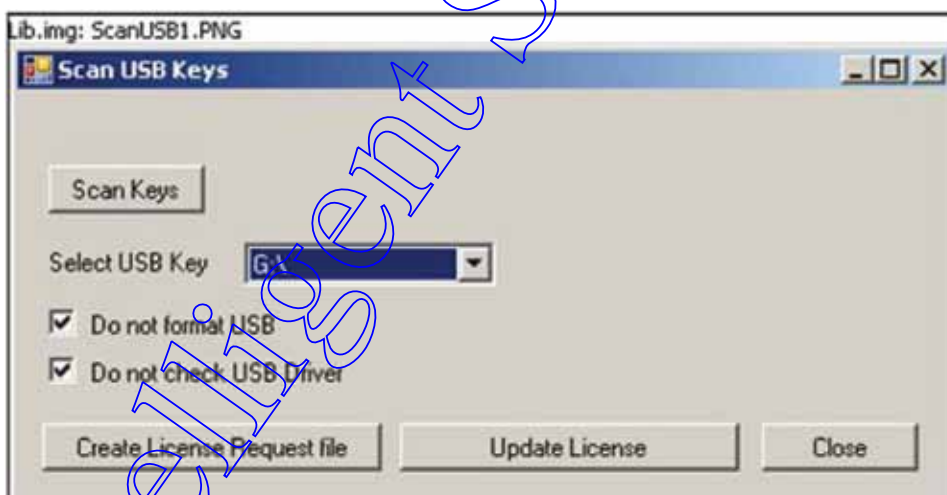
License can be accessed by two ways:

- from DVR Guard
- by running ScanUSB.exe program

DVR Guard License info



ScanUSB.exe program



Licensing tasks:

Checking License	To check the license use DVR Guard License Information
Requesting License	When license file is corrupted or when user requests additional features then he can obtain copy of the license file. Press Create License Request and send created file to support
Installing License	After receiving license file use Update license for license installing. For update features use Update features button.

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User Manual

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DVR Guard (for User)

This program is used for supervising the Pandora DVR.
It can be run in two modes:

- Administration mode
- User mode

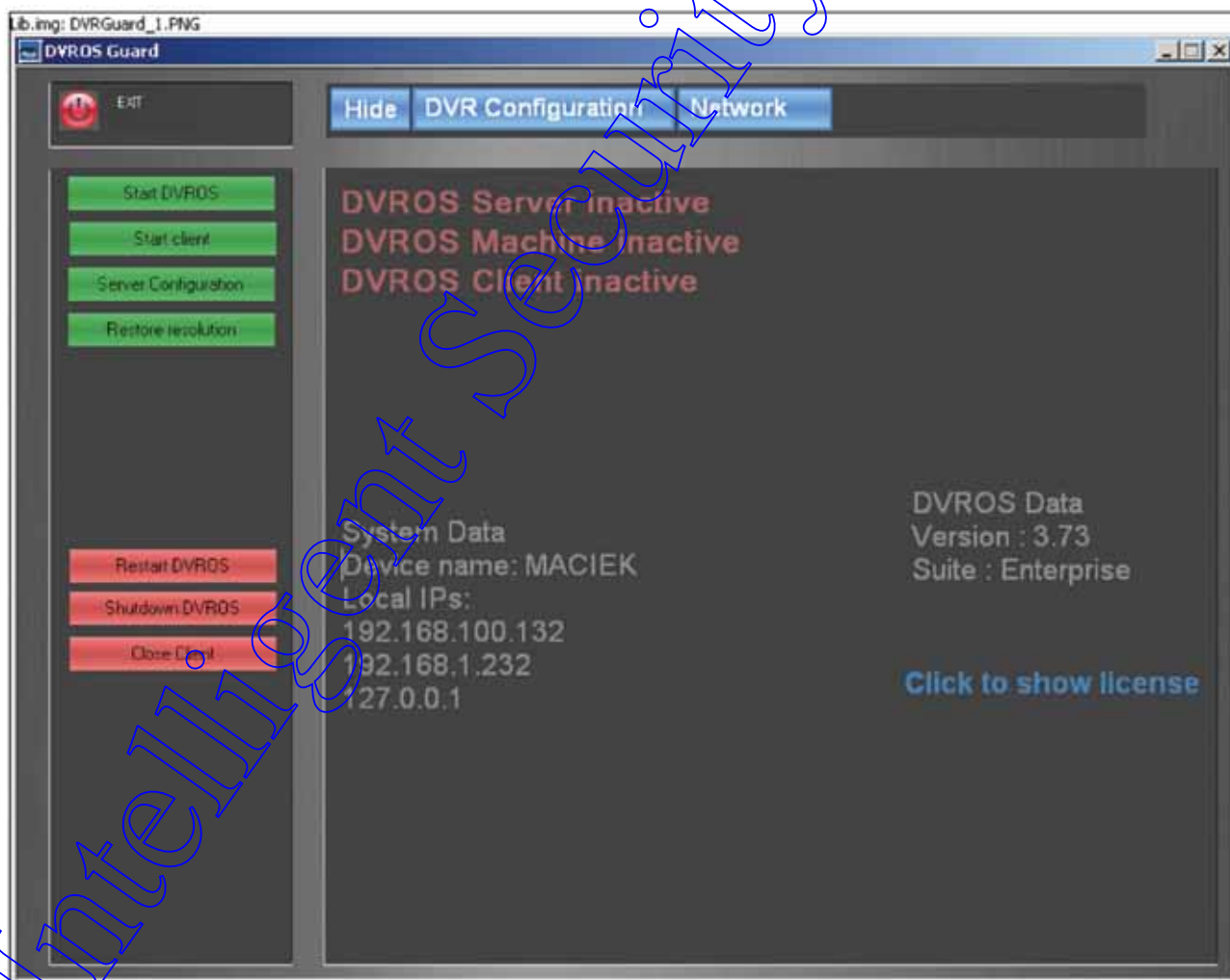
In the User mode, the user can only run the Client application.

In the Administration mode, the Administrator can setup starting parameters for all users and perform the maintenance of system services.

In the DVR Guard there is also information about the Licenses available.

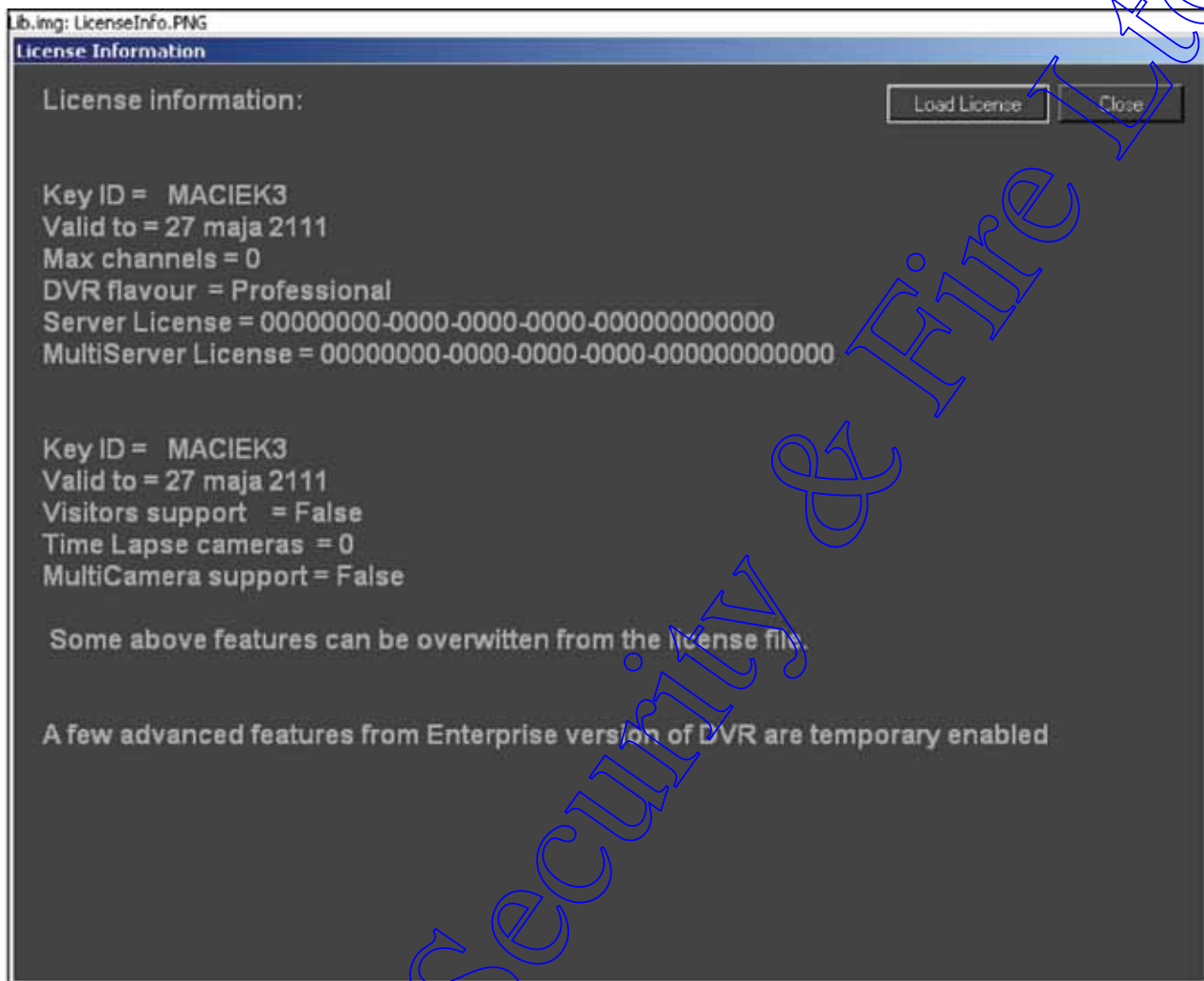
There following main tasks can be performed in DVR Guard in:

Start, Restart and shutdown DVR	Starts (...) DVR services (Server and machine)
Start and Stop Client	Starts and stops Client
Start Server Configuration	Starts Server Configuration (see Configuration)
Set DVR Configuration	Configures DVR Guard tasks and layout of the current DVR (for Admin)
Checking license	Shows current license settings
Set NAT settings	Configures network settings



Checking license

The License Information form shows the current license data.



Client

The Client application is the graphical user interface for the DVR.
It consists of the following screens:

Preview screen
Select screen
Playback screen

There are lot of context menus not described here, but when the user presses the RMB they can select context actions.

Login

To enter the Client program the user needs to login



He need to select DVR Server and set his forced IP address.

Forces IP address is used for directing Client events. It can be any valid IP address.

Preview

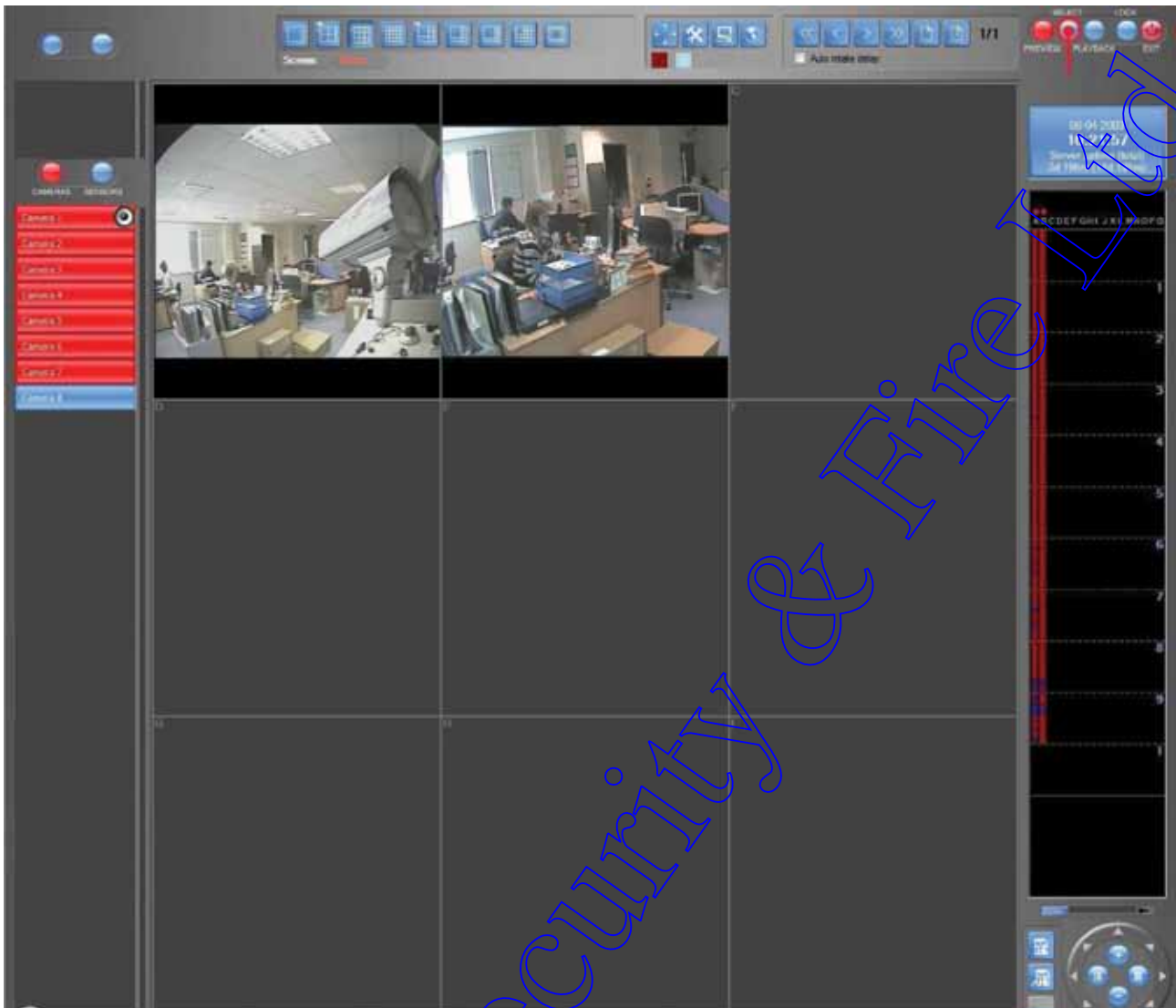
The window contains four main elements:

- List of cameras and sensors. Upper buttons switch between cameras and sensors;
- Viewports of chosen cameras main element of the window (you can select the Layout by buttons below); there is also Drag & Drop option;
- Motion track: this shows whether there was some movement in the chosen area; it takes the form of a two-colour strip with up to the last 10 min duration time.

Red colour indicates a movement;

- Additional functions: pages administration, manipulate of PTZ.

When Client is running on the lower resolution screens (old monitors, laptops) the Preview screen is slightly recognized saving all the functionality.



Layout elements

Camera preview

Drag & Drop of the cameras

This method is employed as follows:

The user has to choose the object (camera or sensor) that has to be dragged from the left hand menu; Place the cursor on it, press the left mouse button and while holding the mouse key down move the cursor to a box in the centre where the object will be dropped, then release the mouse key.

When the object is dragged, the cursor may take different forms:



- Means that the dragged object can be dropped on the object under the cursor.

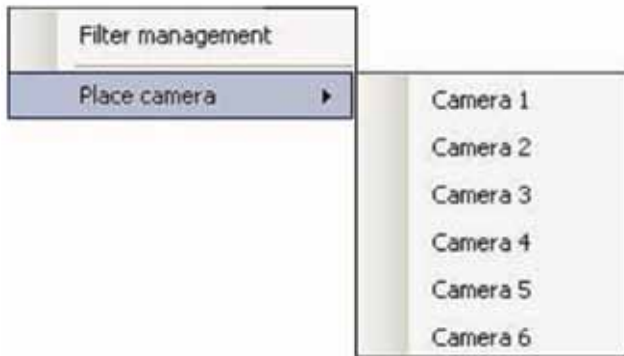


- Means that the dragged object cannot be dropped

Submenu of Viewports

Clicking on the viewport with the right mouse button shows the submenu of the viewport.

The submenu has two functions: **Filter management**, which allows the administrator to access the filters (see chapter 6: Filters), and **Place camera**, which allows the administrator to place a camera on the viewport from the camera list (this is the alternative to the Drag and Drop).



Swap Viewport's locations

To swap camera positions, place the cursor on one of the active viewports, press the LMB, and while holding the mouse key down move the cursor to another viewport and release the button.

Remove camera from viewport

To delete a preview camera from a viewport, select the appropriate viewport by clicking on it with the left mouse button and then press the 'Delete' button on the keyboard. The view from the camera will disappear leaving an empty grey layout.

Zoom on the single viewport

To zoom in on one of the viewports (the size of the viewport will be equal to the size of all layouts) double click on the chosen viewport. To go back to the normal size, double click on the viewport again.

Cameras layout

The user can select the following functional layouts of the video streams:

Preview layouts
Matrix layout
Alarm layout

5.2.1 Preview of layouts



The application offers a variety of the layouts:

- 1 on 1 display layout
- 2 on 2 display layout
- 3 on 3 display layout
- 4 on 4 display layout
- 3 on 3 display layout with bigger viewport
- 4 on 4 layout with bigger viewport
- 4 on 4 with big viewport
- 5 on 5 with big centre viewport
- MAX (MAX shows the actual view from all local cameras in full screen mode)

To activate the chosen layout press the appropriate icon.

5.2.2 Matrix layout

The Matrix card allows hardware decoding of the video stream.

It can be used as an additional video stream source presented for an additional composite monitor.

Matrix settings are available in Configurator (see Matrix Card).

The image from the Matrix Card is shown on a separate screen.

To organize layouts of the additional screen, select appropriate card and layout then drag the required cameras from the camera list to the matrix viewport.

5.2.3 Alarm layout

Activating the rule (See “Rules and Sensors”) activates the Alarm option.

The camera(s) with the alarm on is highlighted on the cameras list in red.

By checking the Auto popup alarm box the view from the camera(s) under alarm is automatically shown on the screen.



The number of layouts is adapted to the number of the cameras. If the box remains unchecked it is necessary to activate the preview manually. Additionally, there are two other options:

DVR Alarm History Viewer and
DVR Event Viewer

DVR Alarm History Viewer shows the alarms history of the actual session.

DVR Event Viewer shows the history of all events.

Alarms are created by motion detection events or rule activated events.

DVR Alarm History Viewer

Time	DeviceId	Device Type	Device Name	Rule Name
2007-09-06 10:00:15	735	Camera	Camera 1	
2007-09-06 09:59:45	735	Camera	Camera 1	
2007-09-06 09:57:15	735	Camera	Camera 1	
2007-09-06 09:56:15	735	Camera	Camera 1	
2007-09-06 09:52:45	735	Camera	Camera 1	
2007-09-06 09:49:15	735	Camera	Camera 1	
2007-09-06 09:47:15	735	Camera	Camera 1	
2007-09-06 09:42:45	735	Camera	Camera 1	
2007-09-06 09:40:15	735	Camera	Camera 1	
2007-09-06 09:37:15	735	Camera	Camera 1	
2007-09-06 09:35:15	735	Camera	Camera 1	
2007-09-06 09:33:45	735	Camera	Camera 1	
2007-09-06 09:26:45	735	Camera	Camera 1	
2007-09-06 09:10:45	735	Camera	Camera 1	
2007-09-06 09:09:15	735	Camera	Camera 1	
2007-09-06 09:08:15	735	Camera	Camera 1	
2007-09-06 09:07:45	735	Camera	Camera 1	

DVR Event Viewer:

Time	Event Type	Event Description	User
2007-08-13 17:08:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 17:08:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5848 eve...	
2007-08-13 17:04:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 17:02:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 17:00:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:58:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:56:28	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5848 eve...	
2007-08-13 16:54:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:52:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:50:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:48:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:46:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5856 eve...	
2007-08-13 16:44:27	SensorEvent	[Sensor] (B8DVRMachine) MULTIPLE SENSOR 751 MASK INCONSISTENCIES: 5848 eve...	

Event Type Filters
☐ Motion Detection Event
☒ Logging event
☒ Sensor event
☒ Other event

Event Description Filter
 Description text:

Event Time Filter
☒ Show all data
☐ Show time range:
 from:
 to:

In the window, the user can see the time and the type of event and what action it provoked (Administrator, User)

There are also filters, which facilitate finding the right event.

You can select the type of the event:

- Motion Detection
- Logging
- Sensor or other

Additionally, in the field "Description Text" you can enter a phrase you are looking for.
In the "Event Time Filter" part you can choose the time frame in which events happened during the desired time.

Pressing the button Quick Preview you can see the recorded movie tied with selected event.

Tools



The tools Buttons allows the management of additional facilities of the DVR.
There are following tools:

- Full screen
- Local settings
- Configuration
- Localization/GIS



Full Screen

The full screen mode allows you to see the Preview Screen with the viewports only.

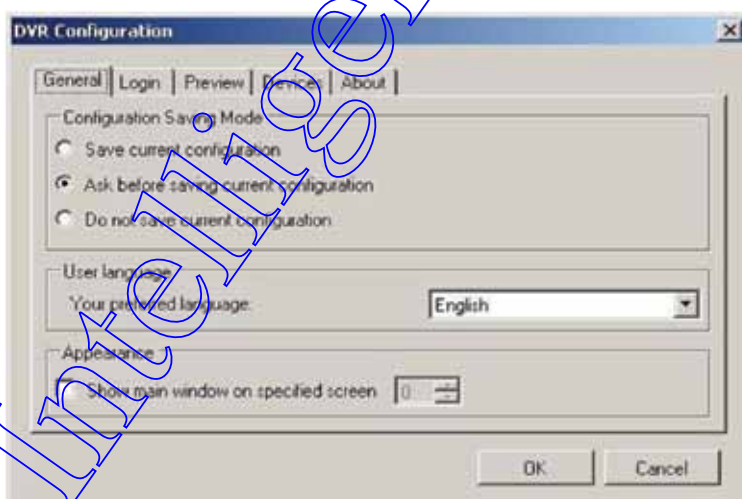
To activate the full screen menu press the full screen button [].
To see the full screen menu move the cursor to the middle top part of the screen.
To quit the full screen mode, press either the Escape button on your keyboard or press the Cross button [] from the full screen menu.

Client Settings

Press the Client Configurator button [] to activate the DVR Configuration window.
It is divided into 5 tabs:

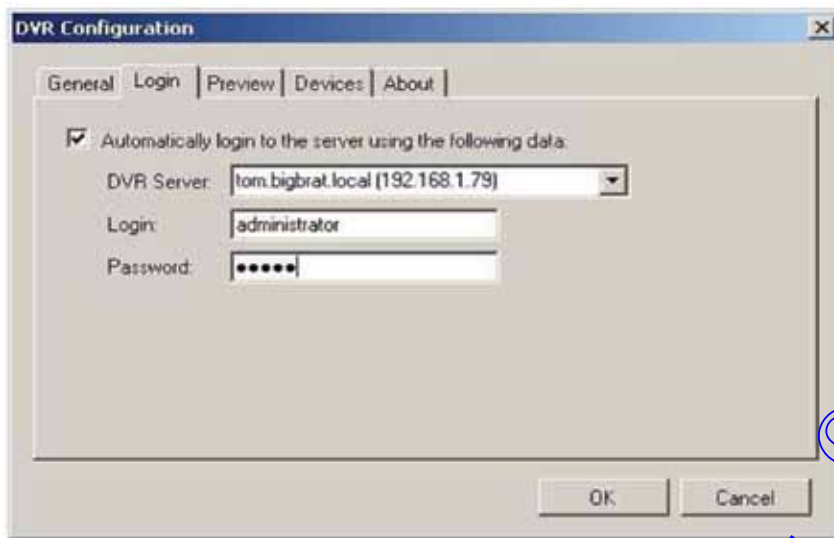
- General
- Login
- Preview
- Devices
- About

General tab



In the General tab, there is a possibility of changing the Configuration Saving Mode, User language (Chinese, Danish, English, Norwegian, Polish, Spanish, Swedish) and Appearance. Appearance parameter points the number of the camera display windows that will be the main display of the GUI.

- Login tab



In the Login tab there is the possibility of activating the automatic login to the server using the provided data.

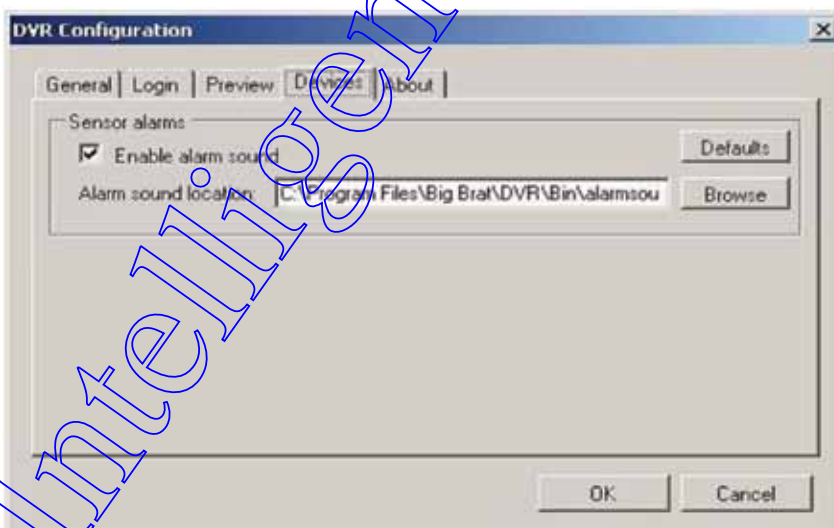
- Preview tab

In the Preview tab, there is a possibility of parametrization of the preview screen.

The user can set:

- Cameras should be automatically placed on viewports when the user opens a new layout. (Layout section)
- Enabled layouts
- Duration of the pauses (in seconds) between the rotations of the pages in the Auto Rotation mode (from 5 to 20).
- The bandwidth and framerate in the remote preview. This parameter is useful when WinClient is connected to DVR by limited bandwidth network. Parameters set should not exceed the network limits.

- Devices tab



Choose a custom audio alert when an alarm is triggered.

The About tab contains the general information about the application and copyright notices of the program and components used.

Configuration

There is direct link to Configurator program.

Emap



This function can be used for visualizing the floor plan or map and where cameras are located. There is also a possibility of a preview of sub-plans (more detailed plan of rooms). To see them, click on the zoom-areas or choose the appropriate position on the Facility list (Location overview window). In the standard installation, the sample maps are added. The Administrator can modify them adapting to the local conditions.

Pages

If you have too many cameras to show on a single screen, this option allows you to have a preview of as many cameras as you need, grouped in the desired priority list. There is also an Autorotate option that reviews the pages automatically. You can set the duration between the rotations of pages (see Client Configurator) between 7 to 20 seconds.

The user can also change them manually by clicking on the icons



Name	Function
Home	Go to first page
Backward	Go back one page
Forward	Go forward one page
End	Go to the last page
New page	Add new page
Del page	Delete chosen page
Count page	Displays page number of all pages
Auto rotate pages	Review pages automatically

To create the page choose the desired layout (all pages will have the same layout) and place cameras in the viewports (see Drag & Drop function).

Lock and Absence mode

The 'Lock' function allows you to block all the functions of the application, except the viewports (you can still see the preview set before pressing the "Lock" button).

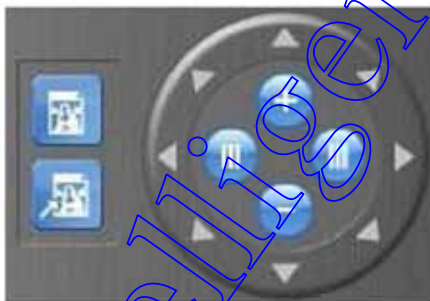
To activate the 'Lock' press the icon []. It will change the icon to following:



To de-activate the function, press the icon again and enter your login and password.

PTZ wheel

The PTZ control is available by pressing the arrows in the bottom right hand corner of the screen.

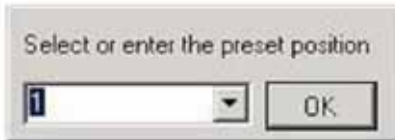


The PTZ options allow camera position declaration (preset) and ordering the camera to move to the preset position.

The preset numbers can be used in the rules.



After activating the declaration of PTZ position, you enter the preset number into the window on the left.



Elements of the PTZ service.

Press arrows to move in the arrow's direction.

Press + and – to zoom.

Press left or right buttons with vertical bars ||| to change the focus (if the automatic focus is set for the camera, these buttons have no influence on the current view.)



Volume

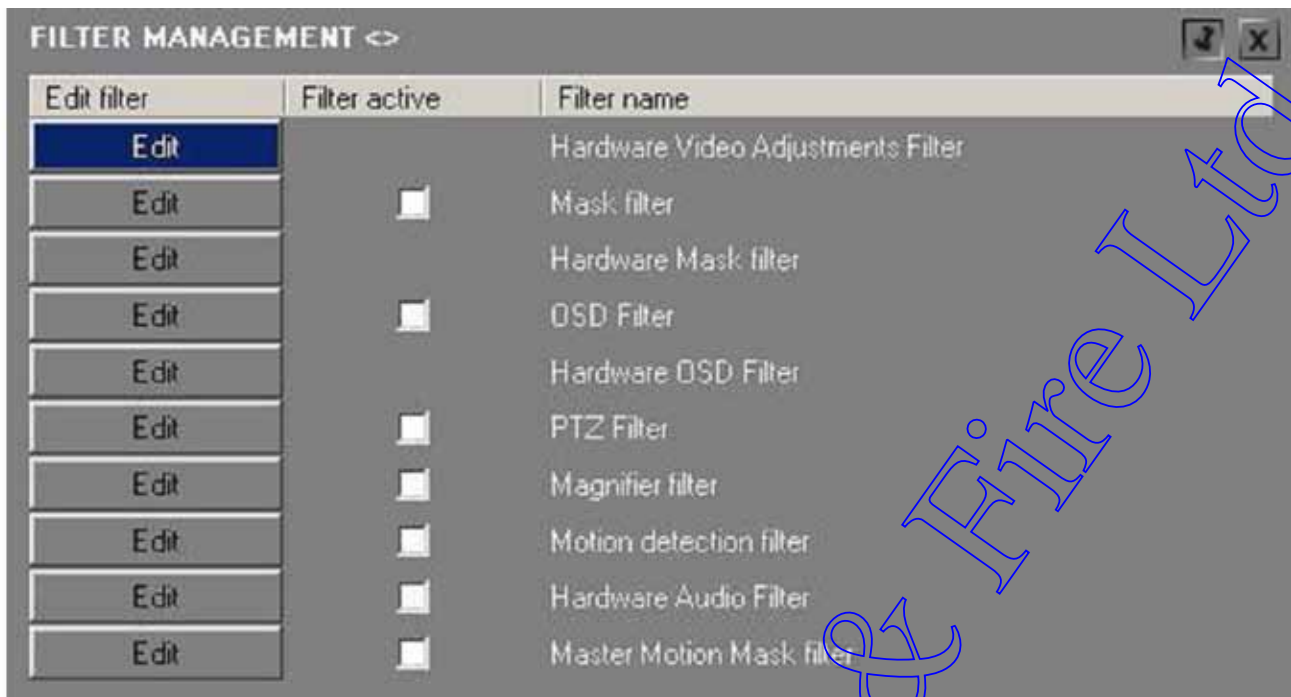


changes volume when it is enabled and played.

Filters

Filters are the function that allows modification of the video stream.

You can change the brightness of the view, put on a privacy mask, and activate the microphone and many more functions.



To activate the Filter Management click on the viewport with the right mouse button.

You can then edit the filter by changing the default settings.

To activate the filter with the default previously selected settings check the 'Filter active' box and press the appropriate "Edit" button.

The Filter menu automatically disappears after pressing the "Edit" button or checking the "Filter active" box.

To avoid this press the "Pin" button (right top corner of the Filter Management window, next to the "Cross" button).

There are two types of filters: HARDWARE & SOFTWARE

- Hardware filters – these filters are written to the video stream
- Hardware Video adjustment
- Hardware Mask
- Hardware OSD
- Software filters – these filters change only the preview stream and are not written to disk.

Hardware Filters

Hardware Video Adjustments Filter

- The Hardware Video Adjustments Filter is responsible for the quality of the view.
- Depending on the light and colour of the monitored area, you can tune it to the best configuration available.
- To change the chosen settings place the cursor on a scale and drag it to the desired position.
- Dragging the cursor to the left makes the value of the setting lower and to the right higher.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings (about 50% of the value) press Reset.
- To exit from the settings press the Exit button.

Hardware Video Adjustments Filter menu

- Brightness: 0-99 Contrast: 0-99
- Colour: 0-99 Saturation: 0-99
- Reset Hide Exit

Hardware Mask Filter

- The function of the Hardware Mask Filter is that unlike the software filter it is recorded to the hard disk
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To remove a mask first press the Remove hardware mask button and then left click on mask to remove it.
- To go back to the default settings (the position and size) press Reset.
- To exit from the settings press the Exit button.

Hardware on Screen Display Filter

- Hardware OSD filter puts labels onto a definite view. It consists of the date and time. The label is global (it is present on all viewports from the definite camera) and is recorded onto the hard disk.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings (the position and the inscription) press Reset.
- To exit from the settings press Exit.

There are predefined tags what can be used on the Hardware OSD

- <Date> - shows date only
- <DateTime> shows date and time
- <CameraName> - draws camera name

Hardware On Screen Display Filter menu

- Show OSD labels: on/off
- Hide Reset Exit

Hardware Audio Filter

- The Hardware Audio Filter activates the microphone in the camera (operates only with cameras having this option) or activates Audio input for this camera.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings and press Reset.
- To exit from the settings press Exit.

Software Filters

Mask Filter

- Mask filter allows the user to mask (cover, hide) a marked part of a viewport with one of two types of mask: black mask (which blackens the desired area) or pixel mask (eliminate the sharpness of the area), both sized by mouse operation.
- This is a software filter, so it is visible only on the viewport and it is not recordable.
- To change the position of a mask, click on the middle of the mask and drag to the desired position.
- To change the size of a mask click on one of the corners of the mask and drag to the desired size: on the left/right to make it wider or up/down to make it higher.
- To remove the mask click on the Remove mask icon and then on the mask you want to remove.
- To remove all masks click on the Remove all masks icon.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To exit from the settings press the Exit button.

On Screen Display [OSD] Filter

- The OSD Filter puts labels on a definite view. It facilitates administration of the console and orientation between the viewports. Putting a label on the viewport enables you to put it in every position on a viewport.
- You can add more than one label to a viewport and change their position.
- To name a label click on it, delete the inscription and enter yours.
- To remove the label click on the "Remove label" icon, to remove all labels click on the "Remove all labels" icon.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To exit from the settings press Exit.

Magnifier Filter

- The function of the Magnifier Filter is to enlarge the chosen object by putting a mask on it. Zoom factor from 2 to 12 change the size of the enlargement.
- Bi-linear Filtering is the smoothing the pixels' edges to make an image clearer.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings (the position) press Reset.
- To exit from the settings press Exit.

Configuration Filters

PTZ Filter [Pan/Tilt/Zoom]

- The PTZ filter runs only on the cameras that have this option set in the configuration.
- The function of the PTZ [Pan/Tilt/Zoom] Filter is to set the position of the camera to enable you to see areas of interest. PTZ changes the position by rotating the camera and enables you to zoom in and out and manually correct the focus for easy observation.
- "Sensitivity movement" is the speed by which the camera will react when the mouse is used to choose direction or zoom
- The activation of "Auto Rotate" starts automatic rotation and opens an expanded menu. The "Auto Rotate" option is for checking the rotation distance only. The camera movement is caused by a series of go to position commands. It is very inaccurate so it cannot be used as standard auto rotate facility in cameras.
- The movement of the camera can be horizontal or vertical - to choose, click on the appropriate directional icon.
- The camera can be set to rotate with your chosen speed - to change the chosen setting place a cursor on a scale and drag it to the desired position.
- The camera can be set to rotate at your chosen time - to change the setting place a cursor on a scale and drag it to the desired position.
- The camera can be set to rotate with your chosen delay - the delays during the rotation and between the extreme positions of the camera. To change the chosen setting, place a cursor on the scale and drag it into the desired position.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings (the position) press Reset.
- To exit from the settings press Exit.
- You can operate PTZ manually, too. This function is available on the bottom righthand corner of the screen.

Motion Detection Filter

- The function of the Motion Detection Filter is to detect movement in the chosen area. The unmarked area stays beyond control.
- The Invert Selection function inverts the marked area.
- To hide the menu, press the Hide button. To go back to the settings press the right mouse button or the Escape button.
- To go back to the default settings press Reset.
- To exit from the settings press Exit.

Master Motion Mask Filter

- The Master Motion Mask Filter activates the mask which excludes any movement that does not interest us from the Motion Search Option and is ignored in the Rules
- Clicking in the Viewport, one can mark or unmark the area.
- Dragging with the middle mouse key pressed one can mark/unmark the bigger area
- The Invert Selection function inverts the marked area.

Operator watching

Motto:

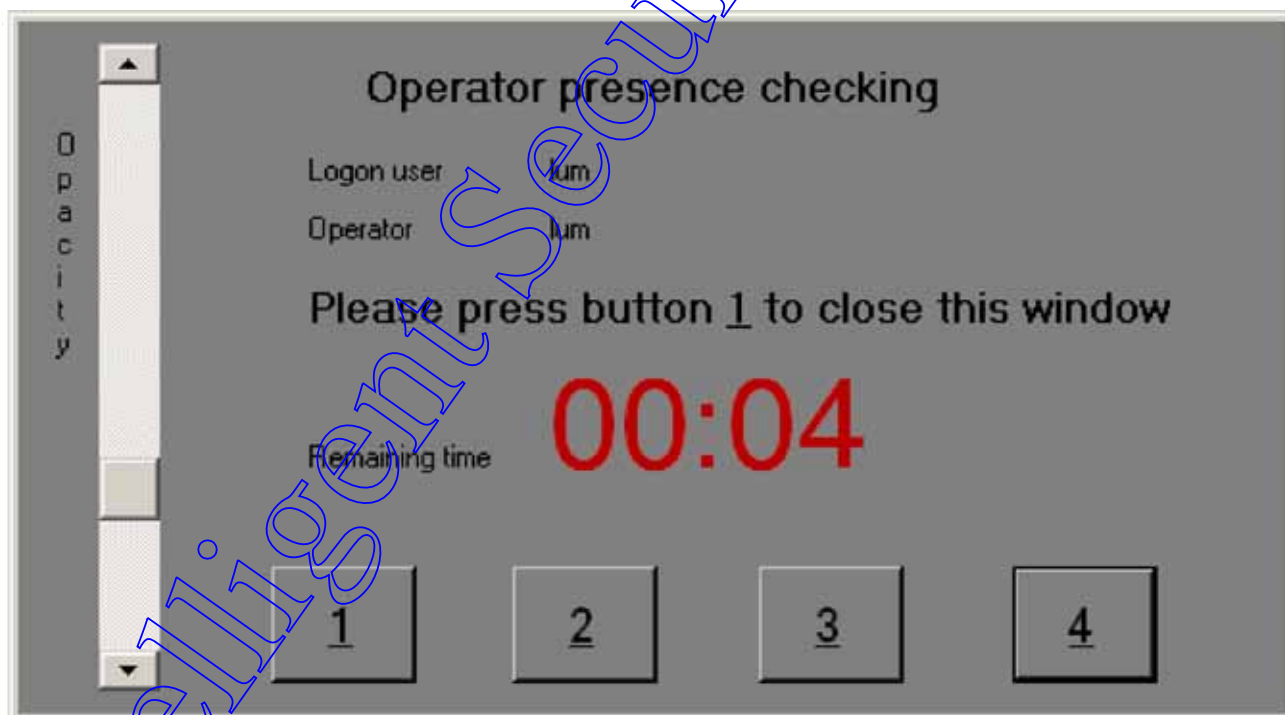
Quis custodiet ipsos custodes?

“Who watches the watchmen?”,

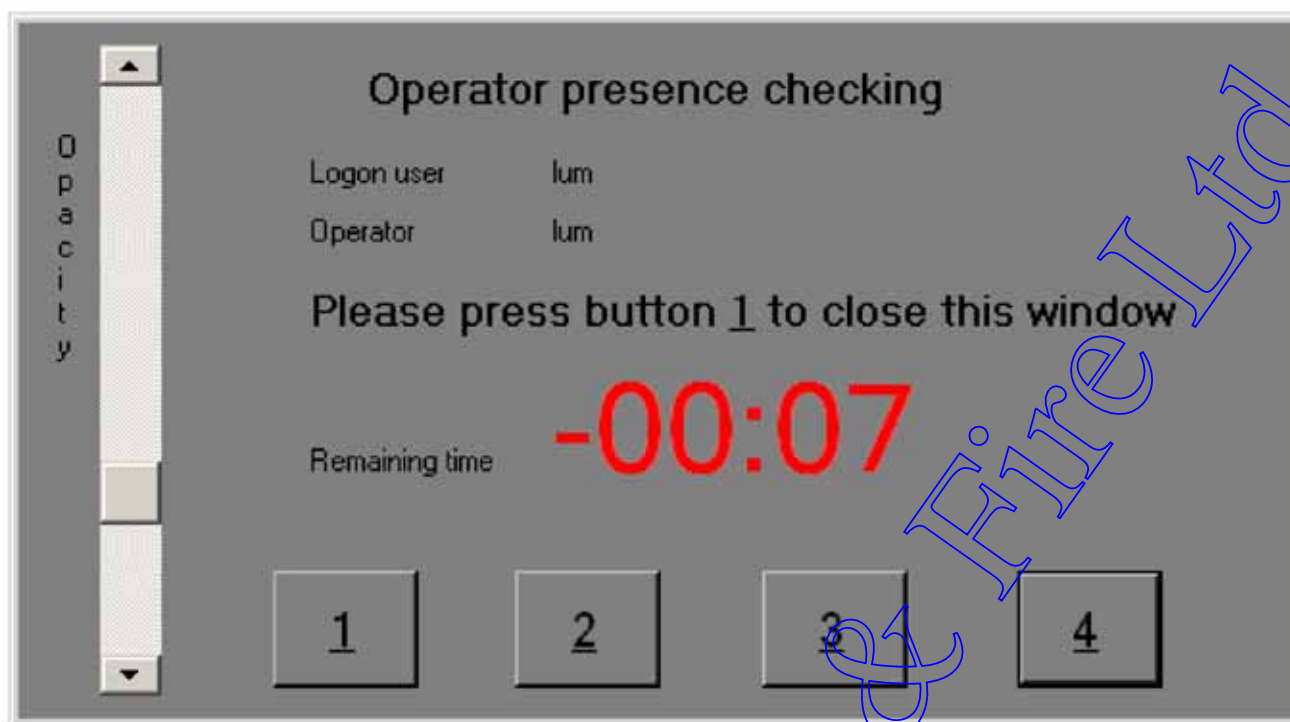
(Roman poet Juvenal (Satire VI, lines 347–8))

http://en.wikipedia.org/wiki/Quis_custodiet_ipsos_custodes%3F

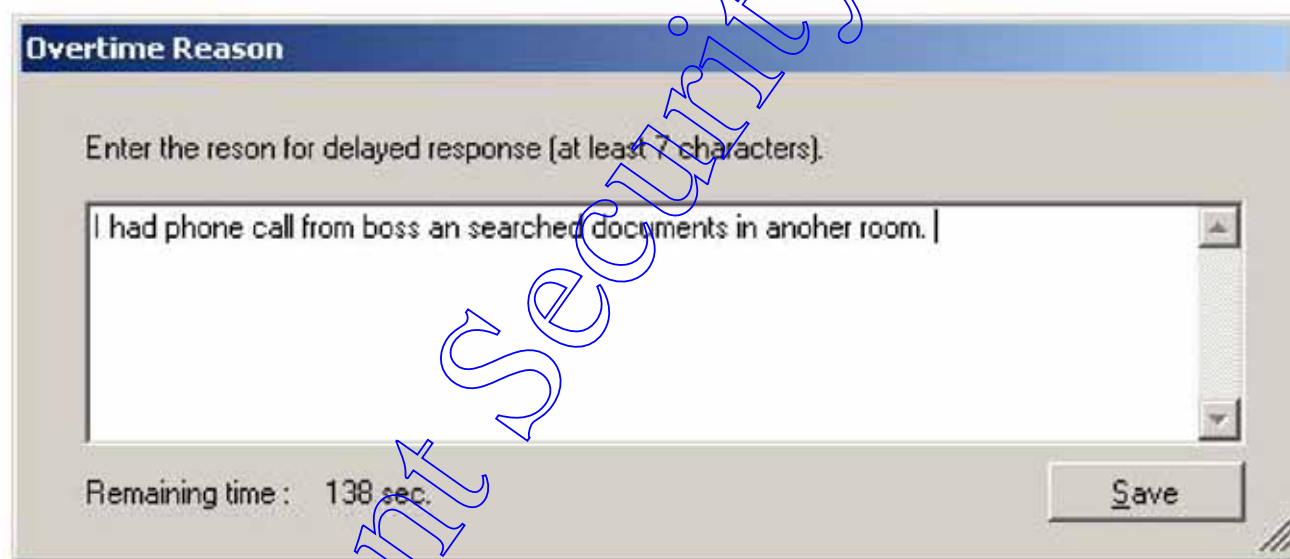
Pandora DVR allows you to watch the watchmen. When it is set up in Configurator the Client will periodically ask the operator to press a button.



When the operator is delayed with their answer, every 10 seconds there will be a beep sound.



When it is configured, after pressing the right button he/she will need to enter an explanation as to why they didn't press the correct button at the correct time



Their explanation for their delay in pressing the right button is saved in database. It can happen that operator is not present in front of DVR. For handling such case the Absence mode can be applied.

Presence and Absence mode

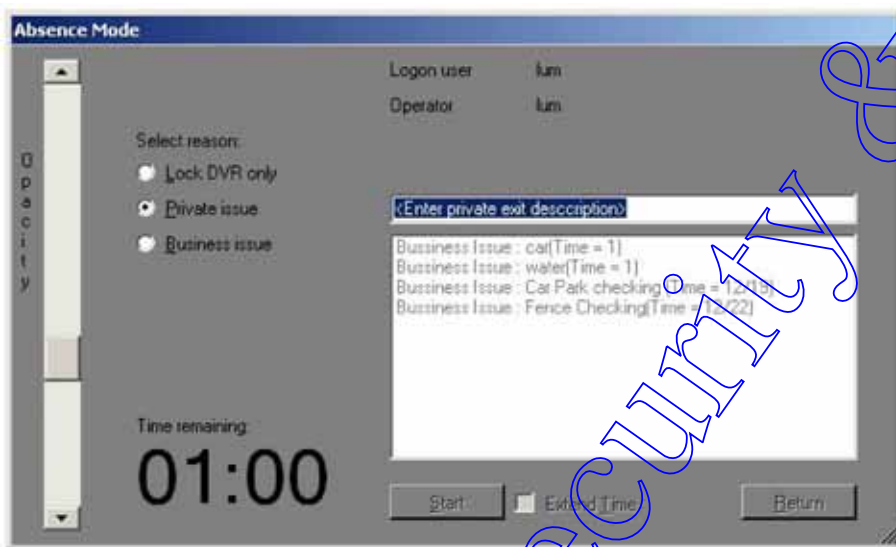
Operator enters in absence mode by pressing Lock button



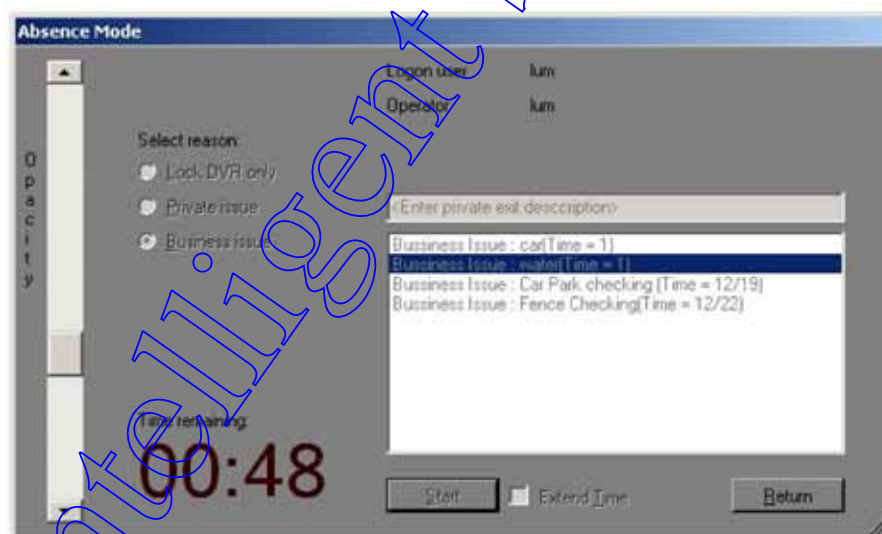
The operator can leave the DVR for two kinds of reasons:

- private issue
- business issue

both of them can be configured during the Absence Mode configuration.



After selecting the reason the operator presses the start button and the time counting starts.
(e.g. winter time or bad weather conditions).



The remaining time on the counter becomes progressively red as the time counts down to zero.

When the operator returns they will be asked for reason for there delay.

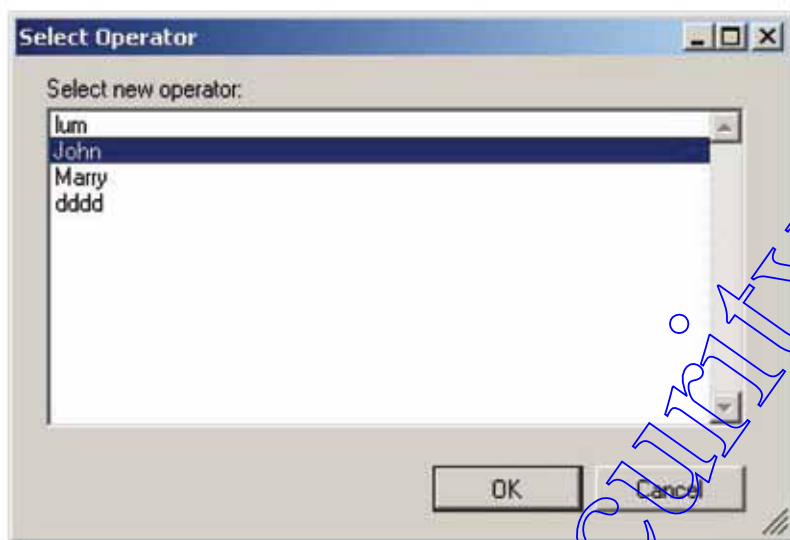
Operators

The Pandora DVR System can be configured to have one password for a group of users. In that circumstance when an operator absence is reported it will be hard to recognise who slept during their work.

Administrator can introduce the a users list. Pressing User button



operator can select himself.



Cameras

Cameras can be configured in Configurator.

Simply Drag and Drop camera from left list onto central area.

Double click to see more details.

There are standard cameras (called Card cameras) and two types of virtual cameras

- Panoramic Camera
- Time Lapse Camera.

Panoramic Camera

The Panoramic camera is a virtual camera in the DVR. It means that there is no dedicated hardware to it, but it takes its images from existing cameras.

Panoramic camera is not for recording as it is used only for preview.

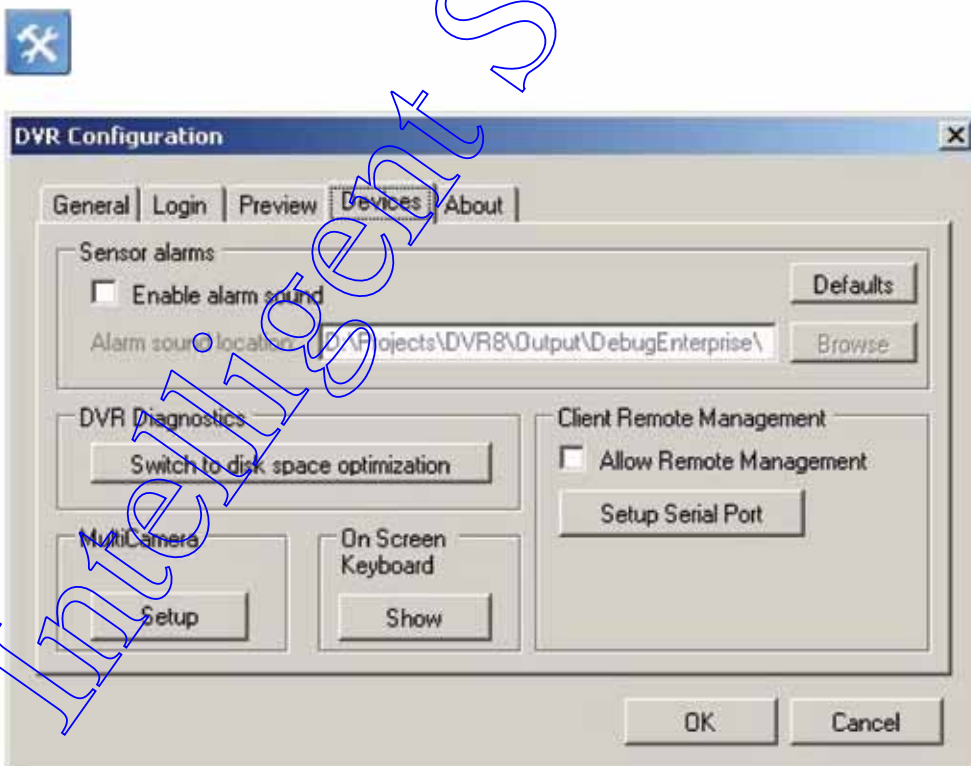
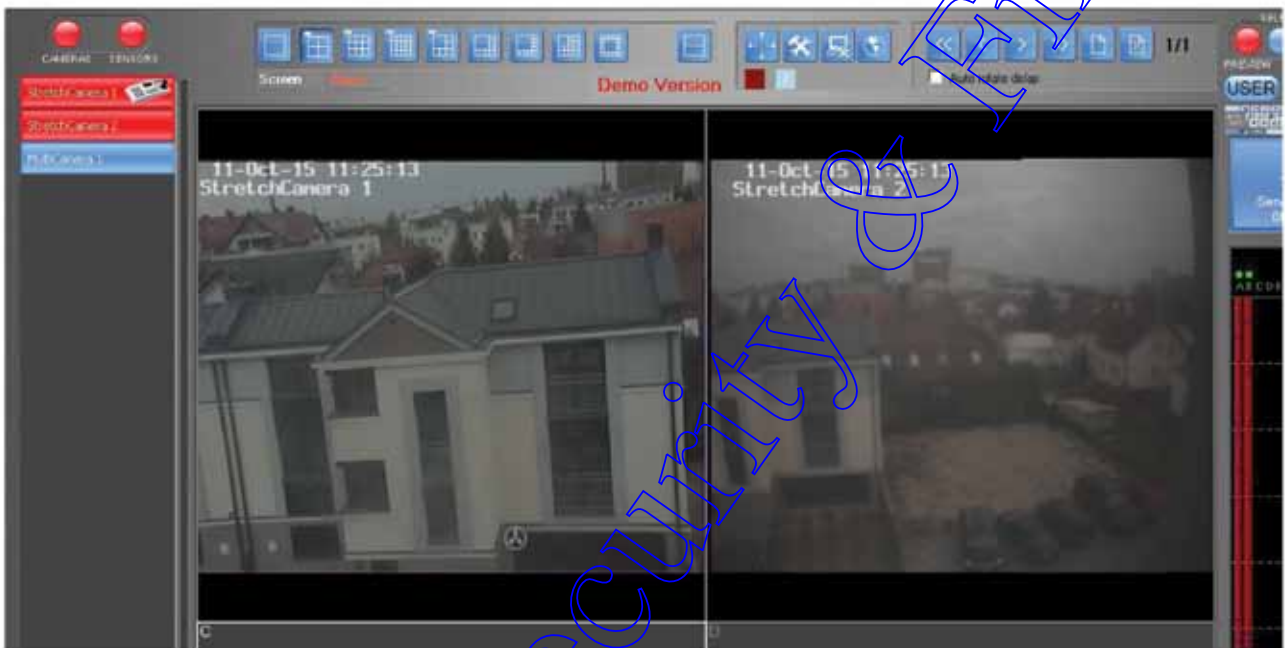
It is useful when the DVR is configured for observing a wide area where two cameras are observing left and right part areas of a site.

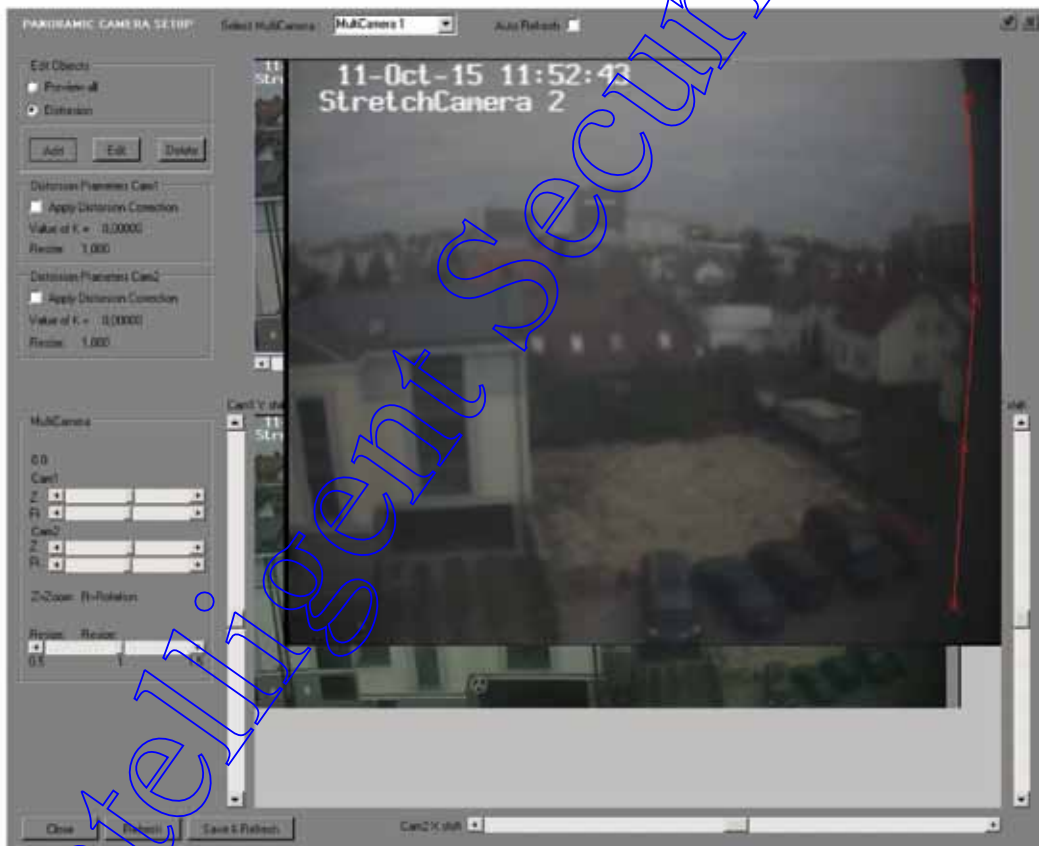
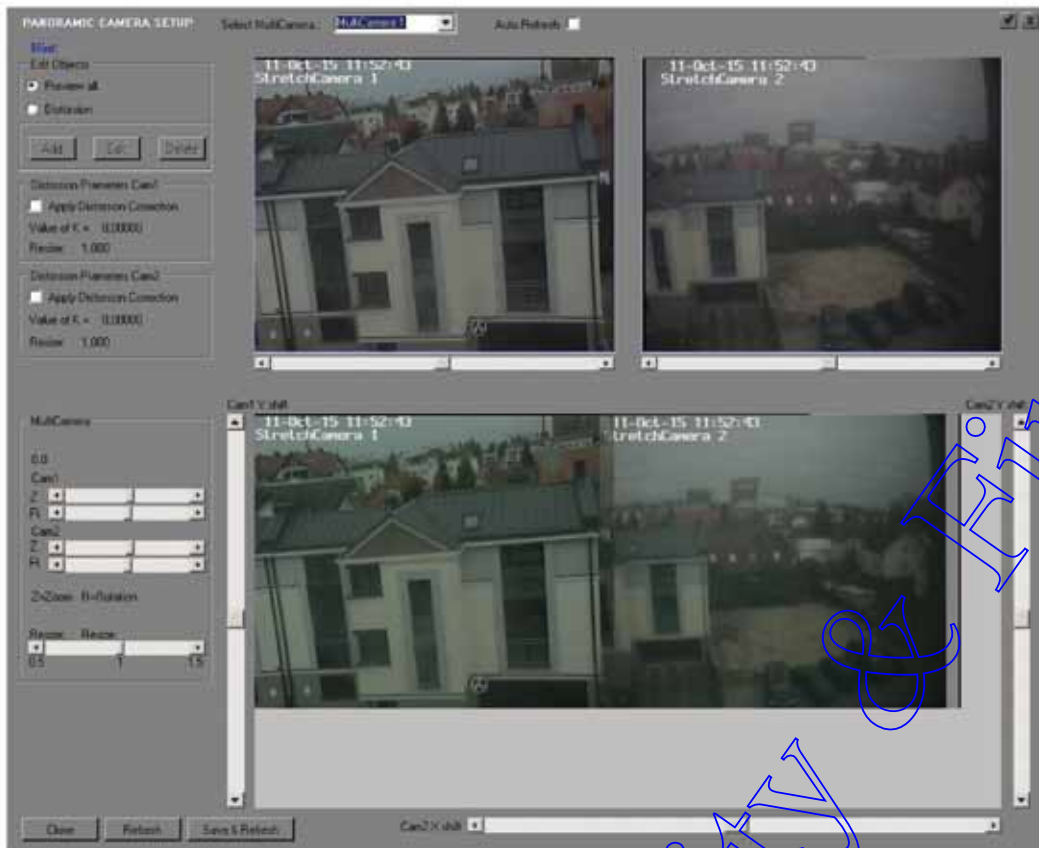
It allows to the operator to “glue” images from two cameras into one continuous wide angle preview image.

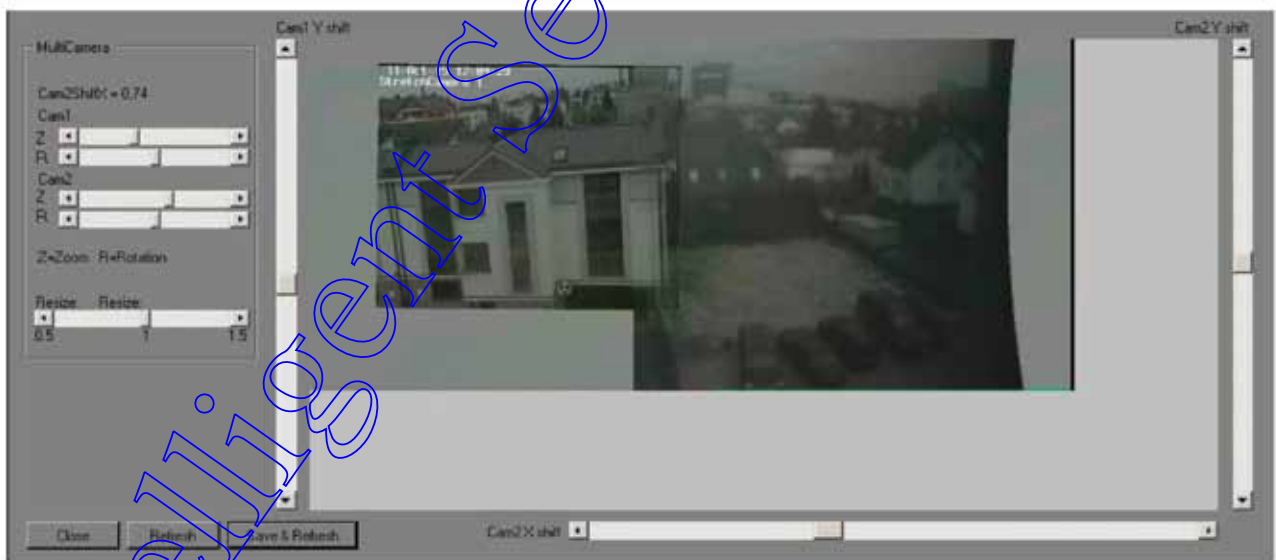
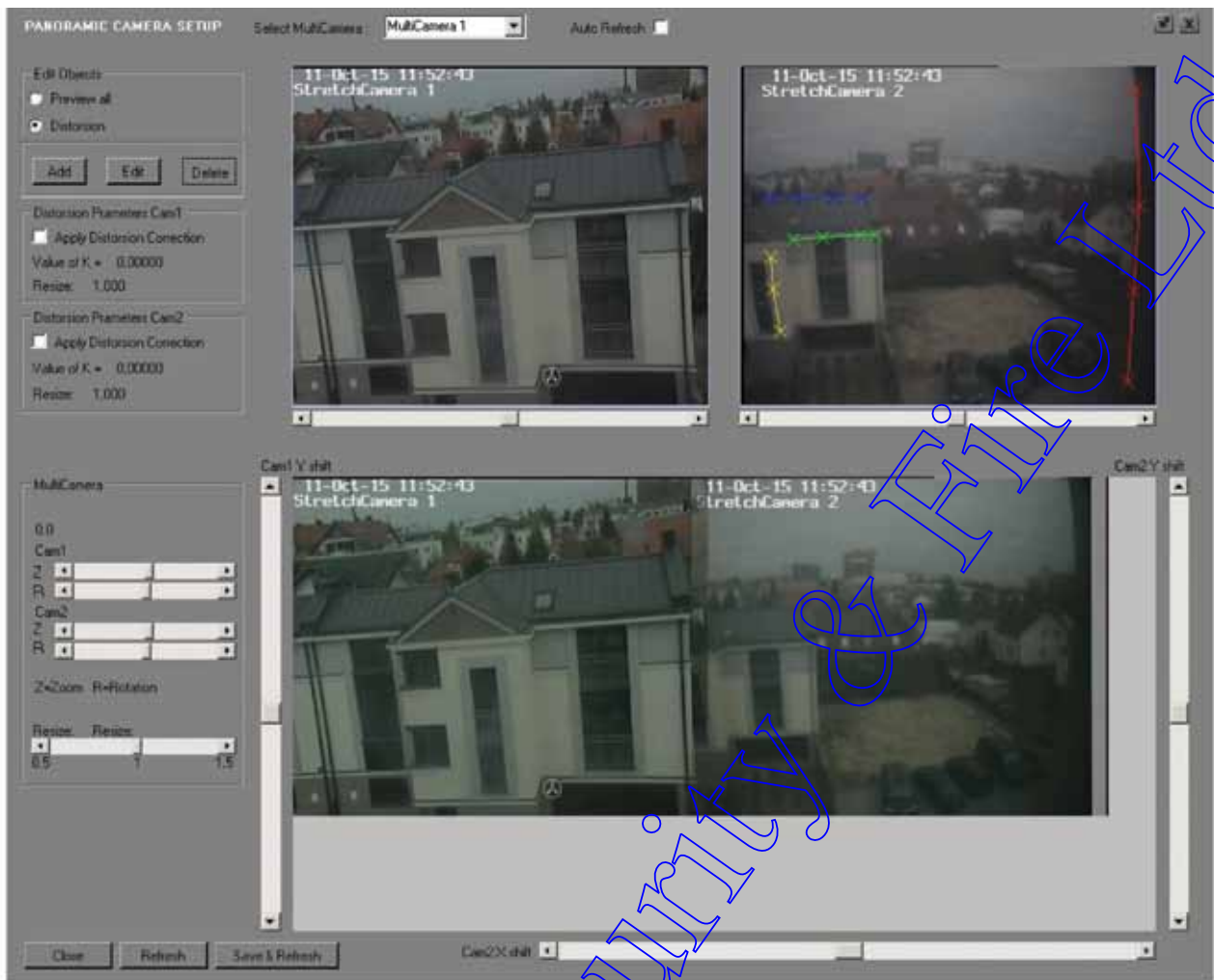
The Setup of the Panoramic camera is performed in two stages.

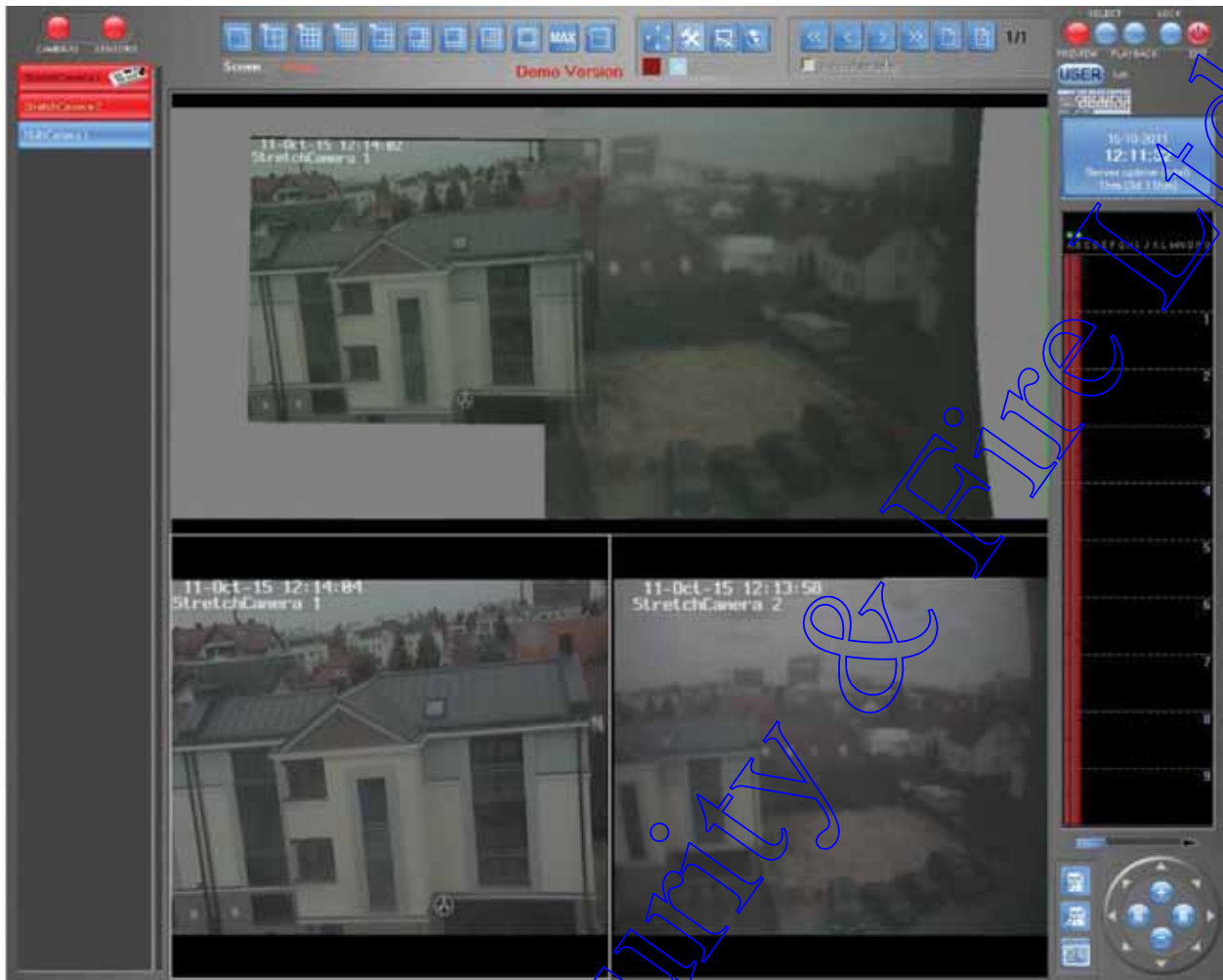
First, in Configurator, the administrator selects the source cameras and their order (which one is left and which one is right). Then after starting the Client program it is necessary to adjust the “gluing” parameters.

Select Client configuration:-









Time Lapse Camera

Time Lapse camera is not shown on available cameras on preview screen. You can playback it only.

Devices

There are three types of devices

- IO Box
- Barcode reader
- Fiscal printer

Devices list can be obtained by pressing sensors button on preview screen.

Sensors

You can attach and configure IO Box to work with DVR system

These devices can observe the status of inputs connected to them.

They can also change their output state managing devices as doors or gates.

Actually, the system recognises only the TSIO-108 sensor type.

It is connected by serial port to the computer when Machine service is running.

It has 8 inputs (called ALARMS IN) and 8 outputs (called ALARMS OUT).

The inputs and the outputs have binary status- they can be only on or off.

If the input/output is on, it is signalled by the highlighted corresponding diode.

We can programme which status we want to be correct.

Both NC (normally closed) and NO (normally open) are available as a normal state.

Apart from informing us about input status, the system can also change the output status: ALARMS OUT.

You can do it by activating the rule (see: Rules)

There is another important feature – hardware identifier of a sensor.

It is set on by a group of a sensors situated at the housing of the sensor signed ID.

The identifier has to be unique from the other sensors connected to the same port of the machine.

Sensors preview

To activate the sensors preview drag the sensor from the sensors list to one of the viewports, like a camera.

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	OFF	OFF	ON	ON	ON	ON	ON
STATE HISTORY							
OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled
ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

The status of the sensor consists of 3 parts:

ALARMS IN - shows the current status of a sensor inputs by On/ Off message.

The colour of the text shows accordance of the status to the settings. The green colour signifies the correct status, the red – incorrect.

STATUS HISTORY - shows the history of the inputs statuses – if there were any incorrect and archived status in the past.

Additionally there is information shown if the input of the status is active- by Enabled/ Disabled function.

The picture below shows the situation where only the last 4 inputs are activated.



Only the activated inputs will register if any incorrect action takes place. The other inputs will notice the status, but will not save it in a status history.

ALARMS OUT – output status of the sensor. It is set only by a rule created by an operator. The output status corresponds to the highlighting ALARMS OUT diodes.

There is also a sensors menu, activated by a right click with the mouse over a sensors list.



Device info – shows the name of a sensor

Clear sensor input history – reset Status History. This is the only way to reset the Status History. You can do it only when the current status of the sensor inputs is correct.

Reset sensor outputs – reset the status of the sensor outputs on a sensor.

Temporary mask inputs – the mask inputs which incorrect status we want to register and save in the next 30 minutes.

Example:

We have sensors with the following settings:

The first 3 inputs OFF, the rest is ON.

We can see the preview of the sensor like that one in its correct status on the first diagram in this chapter.

Preview of the sensor with these settings:

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	ON	OFF	ON	ON	ON	ON	ON

STATE HISTORY							
OK Enabled	BAD Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled

ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

On the second input (Alarm 1), there is an incorrect status, which has been saved to the Status History.

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	OFF	OFF	ON	ON	ON	ON	ON

STATE HISTORY							
OK Enabled	BAD Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled

ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

Status on the second input is now correct but the incorrect status has already been saved in the Status History.

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	OFF	OFF	ON	ON	ON	ON	ON

STATE HISTORY							
OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled

ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

The User, using “Clear sensor inputs’ history” option resets the history restoring initial status.

Sensor 1	Sensor 2	Sensor 3	Sensor 4	Sensor 5	Sensor 6	Sensor 7	Sensor 8
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Submit

The User, using “Temporary mask inputs” has checked last four sensors, the user will only see the information for the selected sensors

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	ON	OFF	ON	ON	ON	ON	ON

STATE HISTORY							
OK Disabled	OK Disabled	OK Disabled	OK Disabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled

ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

After this change there were incorrect statuses on the first and a second sensor’s inputs. Because they are ignored (the function is disabled), it doesn’t cause any reaction.

ALARMS IN							
Alarm 0	Alarm 1	Alarm 2	Alarm 3	Alarm 4	Alarm 5	Alarm 6	Alarm 7
OFF	ON	OFF	ON	ON	ON	ON	OFF

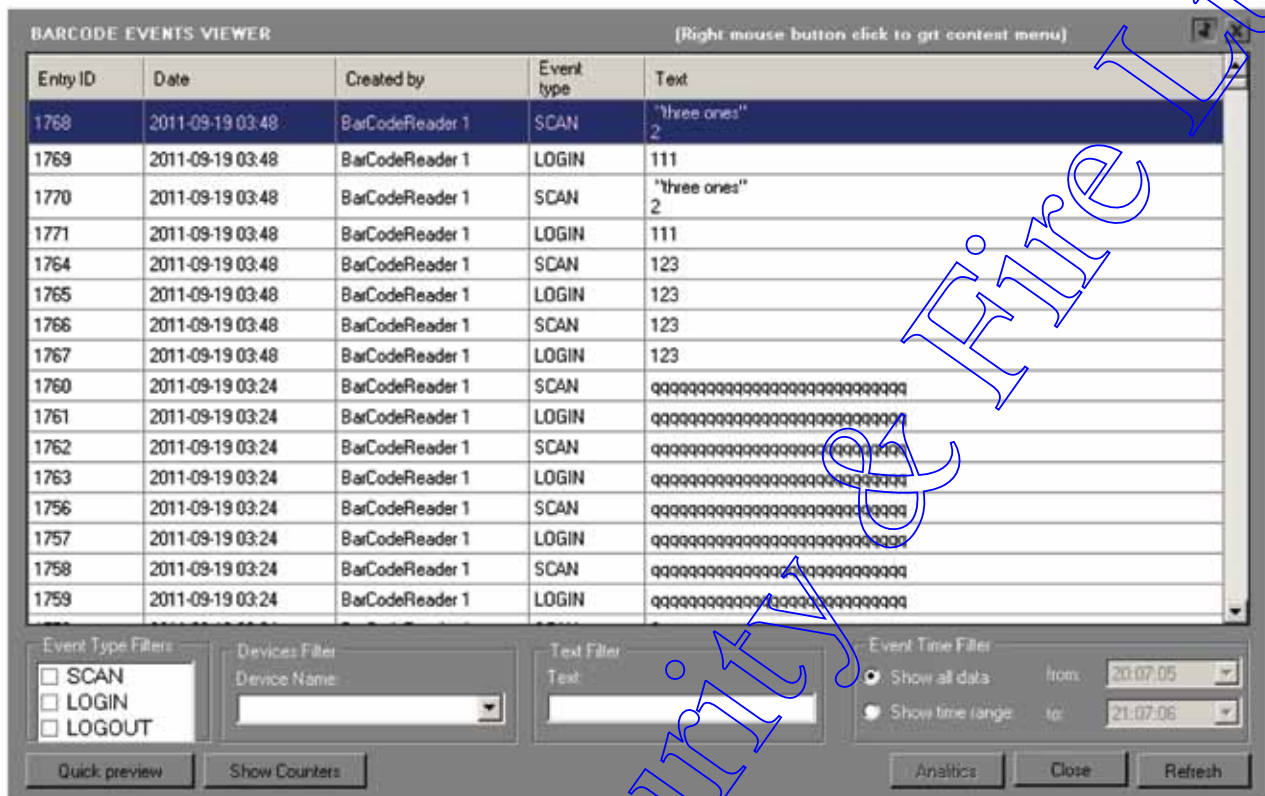
STATE HISTORY							
OK Disabled	OK Disabled	OK Disabled	OK Enabled	OK Enabled	OK Enabled	OK Enabled	BAD Enabled

ALARMS OUT							
1	2	3	4	5	6	7	8
OK	OK	OK	OK	OK	OK	OK	OK

Then the first input goes back to the normal status and the last input has an incorrect status. Because the last four inputs are enabled, the status of the last input is saved to the Status History.

Barcode reader

Barcode reader form shows all registered bar codes and allows to see footages tied with this event. Simply . as for camera drag and drop it from left side to viewport. Pin it to avoid disappearing when mouse click outside the window area



Barcode Events Viewer window showing a list of events. The table below represents the data shown in the window:

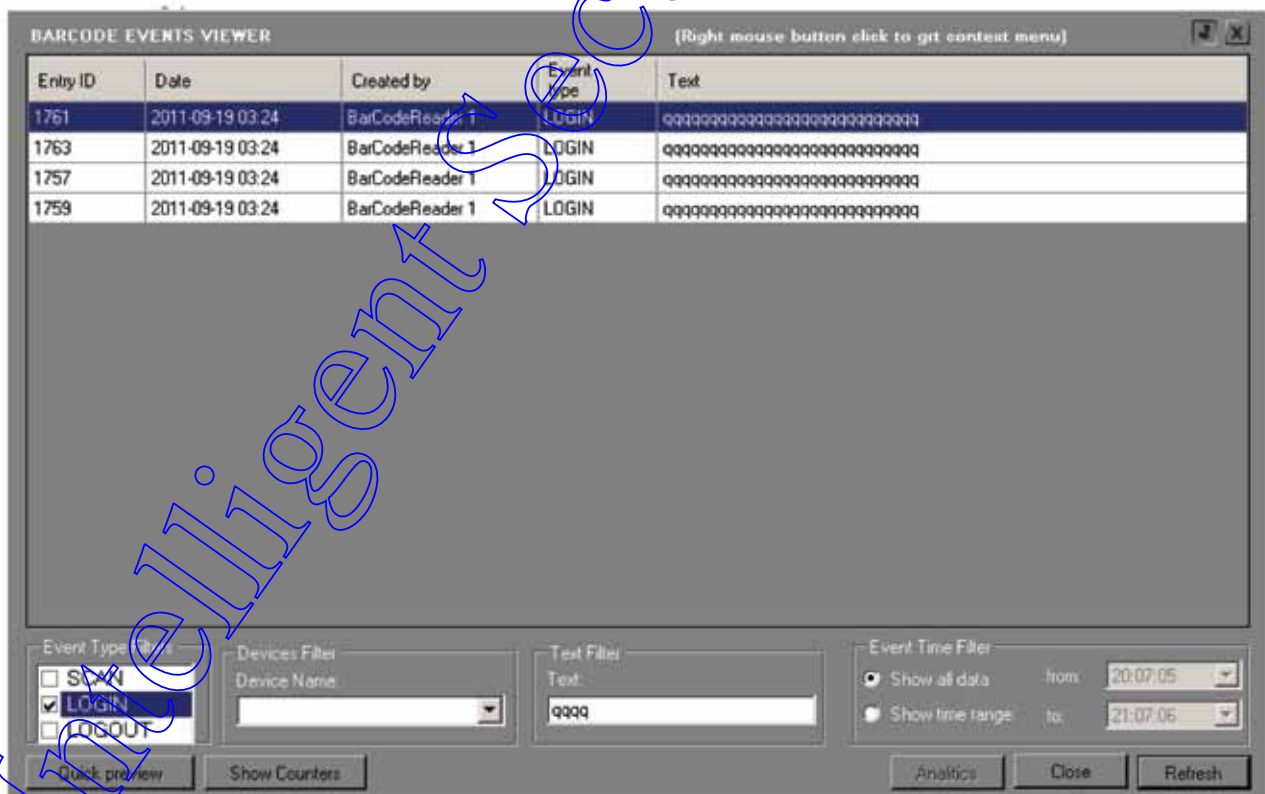
Entry ID	Date	Created by	Event type	Text
1768	2011-09-19 03:48	BarCodeReader 1	SCAN	"three ones" 2
1769	2011-09-19 03:48	BarCodeReader 1	LOGIN	111
1770	2011-09-19 03:48	BarCodeReader 1	SCAN	"three ones" 2
1771	2011-09-19 03:48	BarCodeReader 1	LOGIN	111
1764	2011-09-19 03:48	BarCodeReader 1	SCAN	123
1765	2011-09-19 03:48	BarCodeReader 1	LOGIN	123
1766	2011-09-19 03:48	BarCodeReader 1	SCAN	123
1767	2011-09-19 03:48	BarCodeReader 1	LOGIN	123
1760	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1762	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1756	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1758	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq

Filtering options at the bottom:

- Event Type Filter: ☐ SCAN, ☐ LOGIN, ☐ LOGOUT
- Devices Filter: Device Name: [Dropdown]
- Text Filter: Text: [Input]
- Event Time Filter: ☒ Show all data, from: 20:07:05, to: 21:07:06, ☐ Show time range

Buttons: Quick preview, Show Counters, Analytics, Close, Refresh

Enter filtering parameters and click Refresh button



Barcode Events Viewer window after applying filters. The table below represents the data shown in the window:

Entry ID	Date	Created by	Event type	Text
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq

Filtering options at the bottom:

- Event Type Filter: ☐ SCAN, ☒ LOGIN, ☐ LOGOUT
- Devices Filter: Device Name: [Dropdown]
- Text Filter: Text: qqqq
- Event Time Filter: ☒ Show all data, from: 20:07:05, to: 21:07:06, ☐ Show time range

Buttons: Quick preview, Show Counters, Analytics, Close, Refresh

RMC on row to see context menu

Entry ID	Date	Created by	Event type	Text
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq

Show preview from this event
 Select
 Add to selections

Show Counters Button shows the actual value of counters and summators.

The value in parenthesis is the summator limit .

Fiscal/receipt printer

Fiscal printer shows fiscal events.

It is functioning in the same way as barcode reader viewer.

FISCAL EVENT VIEWER (Right mouse button click to get context menu)

EntryID	EventDate	Created by	Line type	EventText	First Value	Second Value
---------	-----------	------------	-----------	-----------	-------------	--------------

Event Type Filters
☐ All
☐ BEGIN_RECEIPT
☐ RECEIPT_ID
☐ RECEIPT_ITEM
☐ RECEIPT_TOTAL

First Value
☒ No filter
☐ Above
☐ Below

Second Value
☒ No filter
☐ Above
☐ Below

Event Time Filter
☒ Show all data
☐ Show time range:
 from:
 to:

Event Description Filter
 Description text:

Quick preview Show Counters Analytics Close Refresh

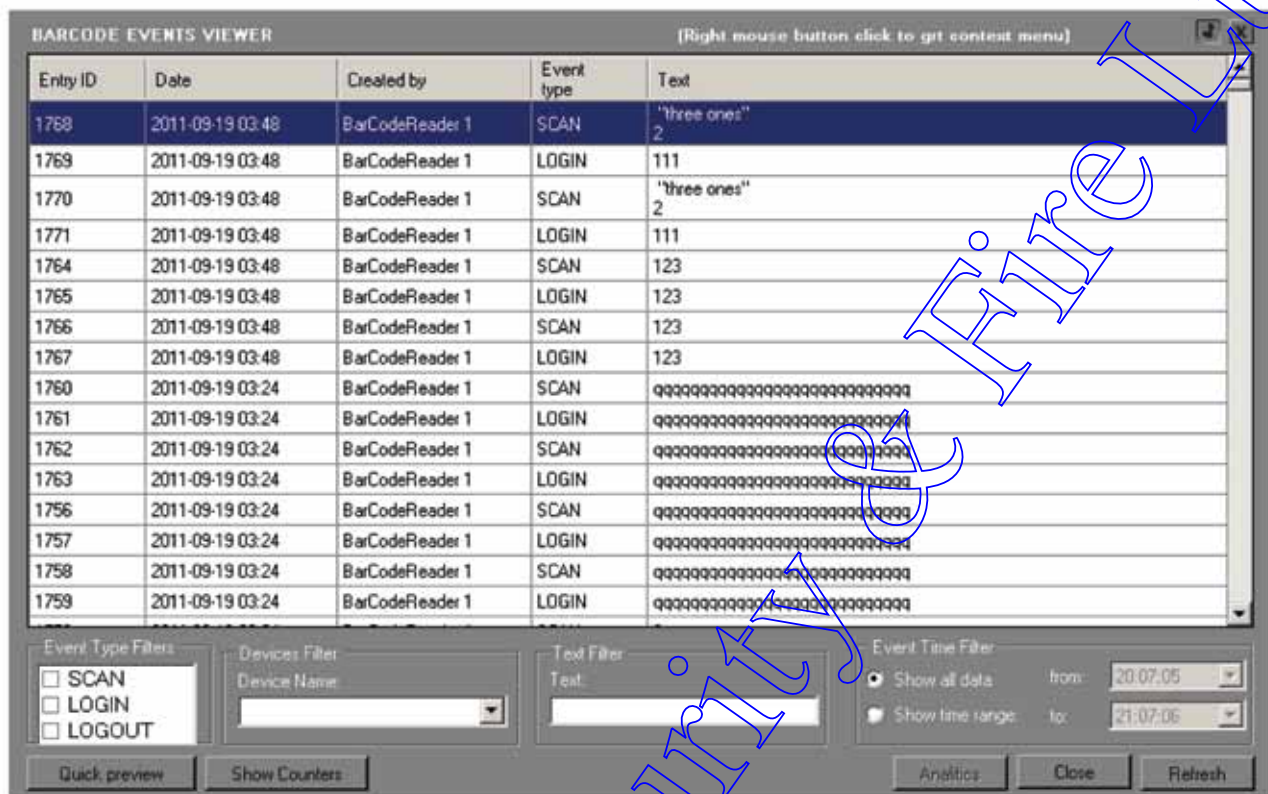
Message viewer

Message viewer can show content of messages what are taken by input devices(serial port, pipe, TCPIP port).

It can be viewed last 18 messages.

BarcodeReader2

Barcode reader form shows all registered bar codes and allows to see footages tied with this event. Simply . as for camera drag and drop it from left side to viewport. Pin it to avoid disappearing when mouse click outside the window area



Barcode Events Viewer window showing a list of events. The window title is "BARCODE EVENTS VIEWER" and it includes a subtitle "(Right mouse button click to get context menu)". The table below shows the data displayed in the window.

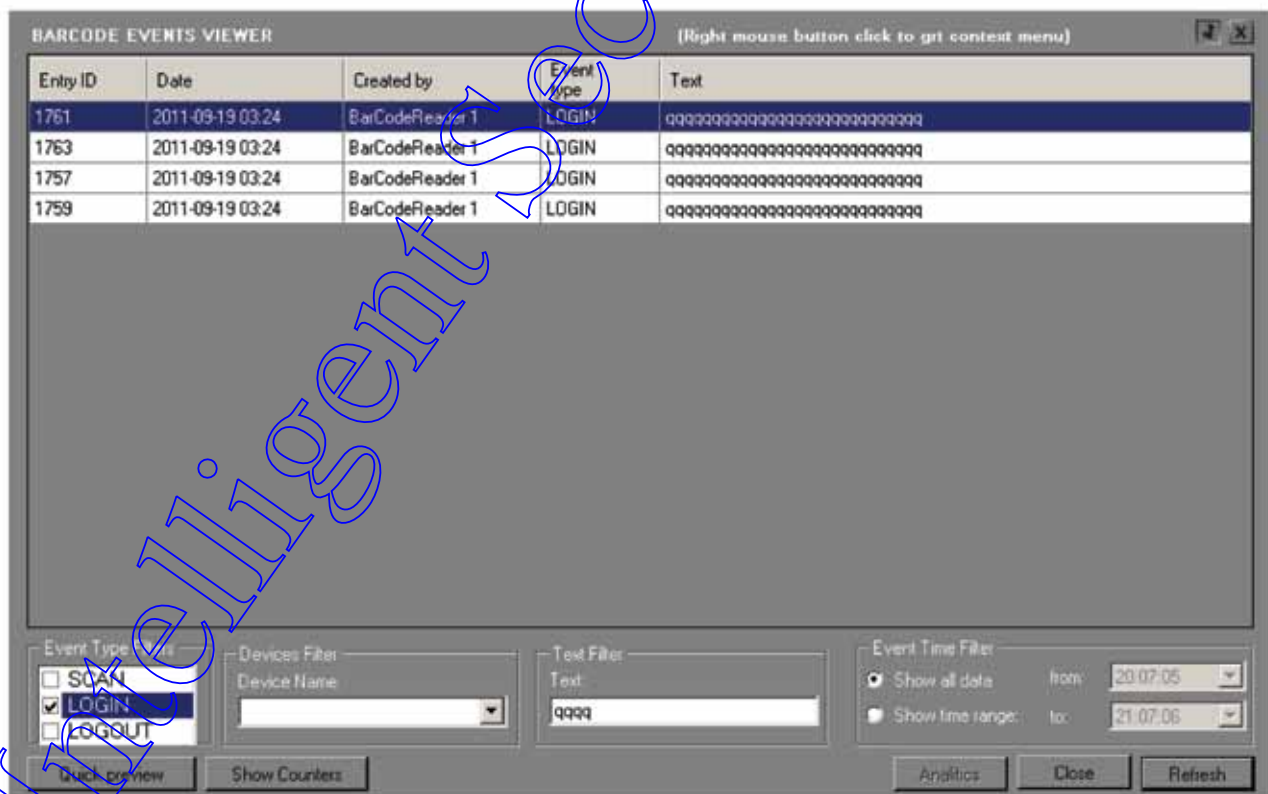
Entry ID	Date	Created by	Event type	Text
1768	2011-09-19 03:48	BarCodeReader 1	SCAN	"three ones" 2
1769	2011-09-19 03:48	BarCodeReader 1	LOGIN	111
1770	2011-09-19 03:48	BarCodeReader 1	SCAN	"three ones" 2
1771	2011-09-19 03:48	BarCodeReader 1	LOGIN	111
1764	2011-09-19 03:48	BarCodeReader 1	SCAN	123
1765	2011-09-19 03:48	BarCodeReader 1	LOGIN	123
1766	2011-09-19 03:48	BarCodeReader 1	SCAN	123
1767	2011-09-19 03:48	BarCodeReader 1	LOGIN	123
1760	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1762	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1756	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1758	2011-09-19 03:24	BarCodeReader 1	SCAN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq

Below the table, there are filters and buttons:

- Event Type Filter:**
 - ☐ SCAN
 - ☐ LOGIN
 - ☐ LOGOUT
- Devices Filter:**
 - Device Name: [Dropdown]
- Text Filter:**
 - Text: [Text Input]
- Event Time Filter:**
 - ☒ Show all data
 - ☐ Show time range
 - from: 20:07:05
 - to: 21:07:06

Buttons at the bottom: Quick preview, Show Counters, Analytics, Close, Refresh.

Enter filtering parameters and click Refresh button



Barcode Events Viewer window showing the result of applying filters. The window title is "BARCODE EVENTS VIEWER" and it includes a subtitle "(Right mouse button click to get context menu)". The table below shows the data displayed in the window.

Entry ID	Date	Created by	Event type	Text
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqqqqqqqqqqqqqqqqqqqqqqq

Below the table, there are filters and buttons:

- Event Type Filter:**
 - ☐ SCAN
 - ☒ LOGIN
 - ☐ LOGOUT
- Devices Filter:**
 - Device Name: [Dropdown]
- Text Filter:**
 - Text: qqqq
- Event Time Filter:**
 - ☒ Show all data
 - ☐ Show time range
 - from: 20:07:05
 - to: 21:07:06

Buttons at the bottom: Quick preview, Show Counters, Analytics, Close, Refresh.

RMC on row to see context menu

Entry ID	Date	Created by	Event type	Text
1761	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1763	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1757	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq
1759	2011-09-19 03:24	BarCodeReader 1	LOGIN	qqqqqqqqq

Show preview from this event

Select

Add to selections

Show Counters Button shows the actual value of counters and summators.

The value in parenthesis is the summator limit .

Visitors

Visitor system can be used for automatic maintenance

- Visitors
- Employee
- Vehicles

entering to and exiting from company area.

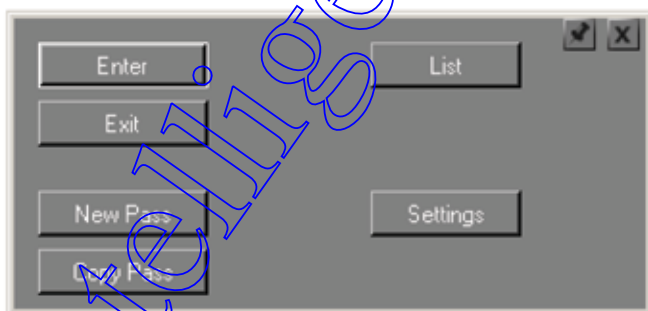
Each Visitor, Employee or Vehicle can have own badge with barcode allowing tracking him/her.

Following chapters will use one word 'Visitor' for describing Visitors, Employee or Vehicles.
For Visitors and Employee the system uses their names, for vehicle system uses a number plate.

User can enter to visitor management panel by pressing button in the lower right corner of the preview screen:



and can select below actions.

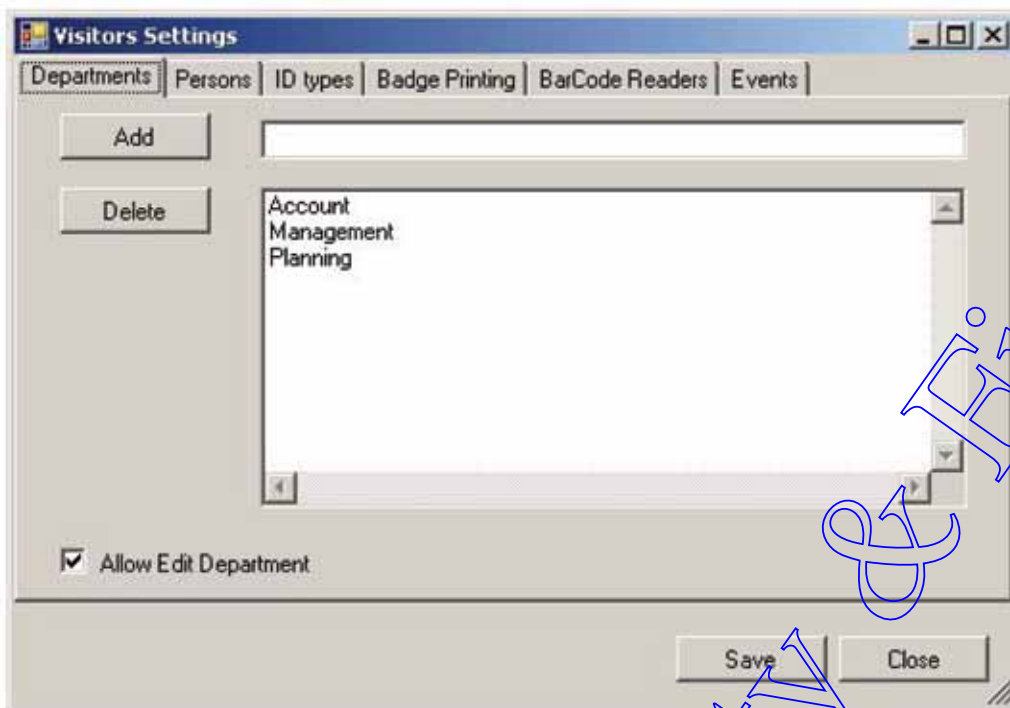


Visitors settings

Visitors setting screen allows setup all parameters of DVR visitors system.

Departments, Persons, ID types

Departments, Persons, ID types tabs allows enter predefined items into Visitors system.

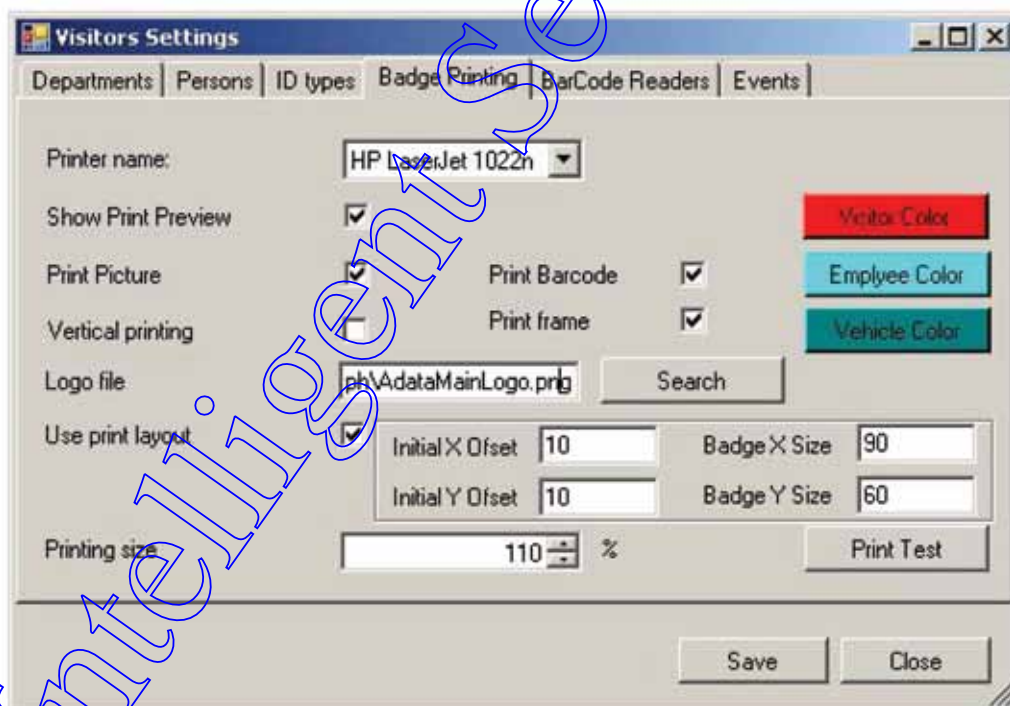


The administrator can add or remove items.

He/she can set editing allowance, what means that during creating new badge, particular item will be allowed to enter or not. It can prevent from entering misspelled values but also a little limits flexibility.

Badge Printing

Badge Printing tab allows to setup the way of badge printing.

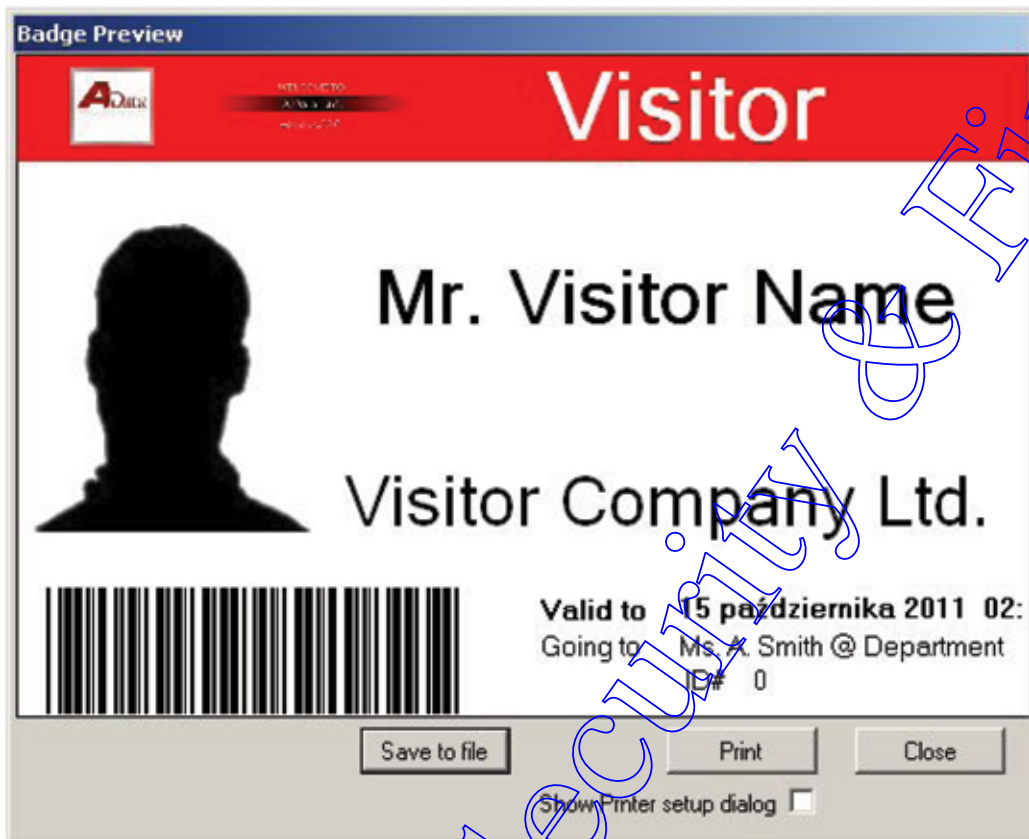


It is necessary to select printer name (it must be printer name available locally to Client program).

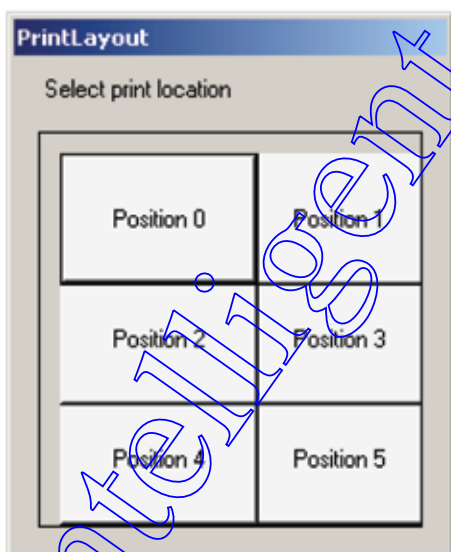
Having colour printer the Visitor system allows to print different badges types with different background colour. Press appropriate button to select colour.
It allows also to print company logo on badge. Leave empty for no logo printing. Again the logo file must be available locally to Client program.

Depending on printer type used for badge printing user can set vertical printing option. It is useful for thermal printers.

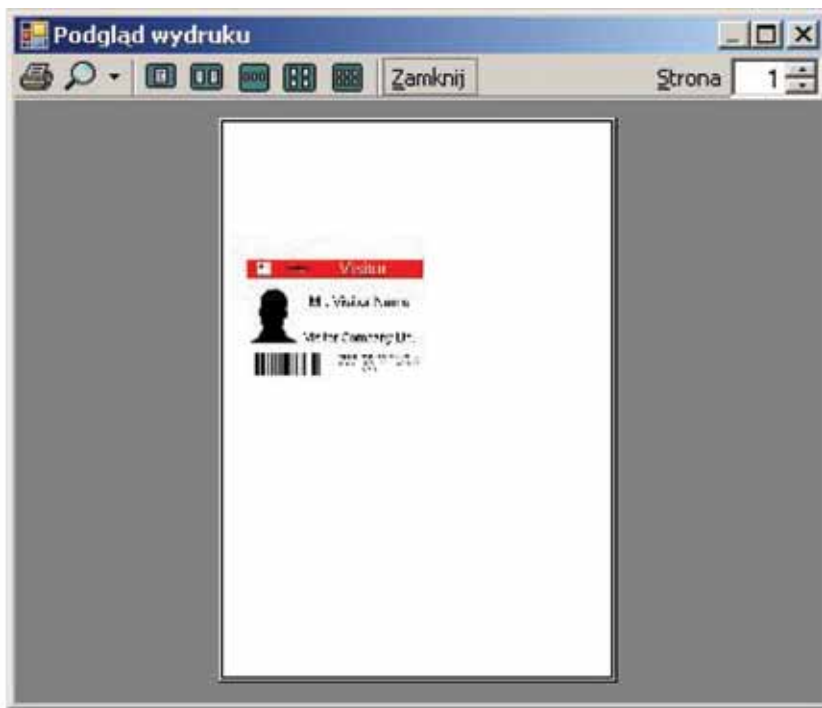
For laser or ink printers the Print layout settings can help to print badge in the desired place.
The Print Test button allows immediately test of entered settings



When system must use a print layout, after pressing the print button user will see print location selection form.



After pressing at one of location printing will start.
When Print preview option is selected user will see it.



Barcode readers

This tab selects an input method for reading badges.

actually available options are :

- by keyboard shortcut
- by BarCode readers

Select the appropriate Barcode reader for reading barcodes.
There can be the same barcode reader for entry and exit.

Events

The events tab allows the operator to setup the a Visitor event in the rule system (see Rules).

This is used to set up single or multiple location events.

For single locations all entry and exit events are stored in one database. So that a visitor can enter through one gate and exit through another. In multiple location databases visitors information is separated and because of this visitor tracking will not be possible.

Tips for single location settings.

On all computers using the Visitor system set:

- the same name for the badge printer (can be changed in printer properties).
- set the same folder name (can be network shared folder) for company logo

Using the set up above will avoid configuration errors.

Visitor List

The visitor list shows the status of visitors at a selected moment.

Entered Persons List

☒ Show Employee ☒ Show All Current Location: AllLocations Use current time for End time
☒ Show Visitors ☐ Show Exited Only Begin Date: 29 sierpnia 2011 End Date: 15 października 2011
☒ Show Vehicles ☐ Show Non Exited Only Begin Time: 00:00 End Time: 02:48

Name: _____ Company: _____

Entry ID	Visitor Name	Company	Enter Time	Exited	Exit Time	Time In	Valid To	To Person	To Department
94	Emp 1	adata	sie-31 19:44	<input checked="" type="checkbox"/>	wrz-09 00:58	197:14	2011-09-30		Account
95	Emp 1	adata	sie-31 19:46	<input checked="" type="checkbox"/>	sie-31 19:46	00:00	2011-09-30		Account
96	Emp 1	adata	wrz-01 00:34	<input checked="" type="checkbox"/>	wrz-09 00:59	192:24	2011-09-30		Account
97	Emp 1	adata	wrz-01 02:19	<input checked="" type="checkbox"/>	wrz-01 22:46	20:26	2011-09-30		Account
99	fem1		wrz-13 04:49	<input checked="" type="checkbox"/>	wrz-14 00:53	20:04	2011-09-16	xxxxxxxxxx	Management
100	fem1		wrz-14 00:53	<input checked="" type="checkbox"/>	wrz-20 09:32	152:38	2011-09-16	xxxxxxxxxx	Management
101	fem1		wrz-14 00:53	<input checked="" type="checkbox"/>	wrz-14 01:01	00:07	2011-09-16	xxxxxxxxxx	Management
102	Emp 1	adata	wrz-14 01:01	<input checked="" type="checkbox"/>	wrz-14 01:02	00:00	2011-09-30		Account
103	Emp 1	adata	wrz-14 01:03	<input checked="" type="checkbox"/>	wrz-14 01:03	00:00	2011-09-30		Account
104	Emp 1	adata	wrz-14 02:22	<input checked="" type="checkbox"/>	wrz-14 02:22	00:00	2011-09-30		Account
105	Emp 1	adata	wrz-14 02:46	<input checked="" type="checkbox"/>	wrz-14 02:53	00:06	2011-09-30		Account
106	Emp 1	adata	wrz-14 03:30	<input checked="" type="checkbox"/>	wrz-15 02:52	23:22	2011-09-30		Account
107	car 1	ccccccccc	wrz-15 02:55	<input checked="" type="checkbox"/>	wrz-20 09:32	128:36	2011-09-23	Ms Ala Green	Management

Total Entered: 21 Total In: 3
 Employee: 13 Employee In: 2
 Visitors: 7 Visitors In: 1
 Vehicles: 1 Vehicles In: 0

Print Close

The upper part shows filtering options, which allows the operator to decrease the amount of data shown. The lower part shows a summarized state of entry and exit events.

Pressing RMB on the selected entry user can select

- mark exit - valid only for non-exited visitors/employee
- show details - for showing pass details.

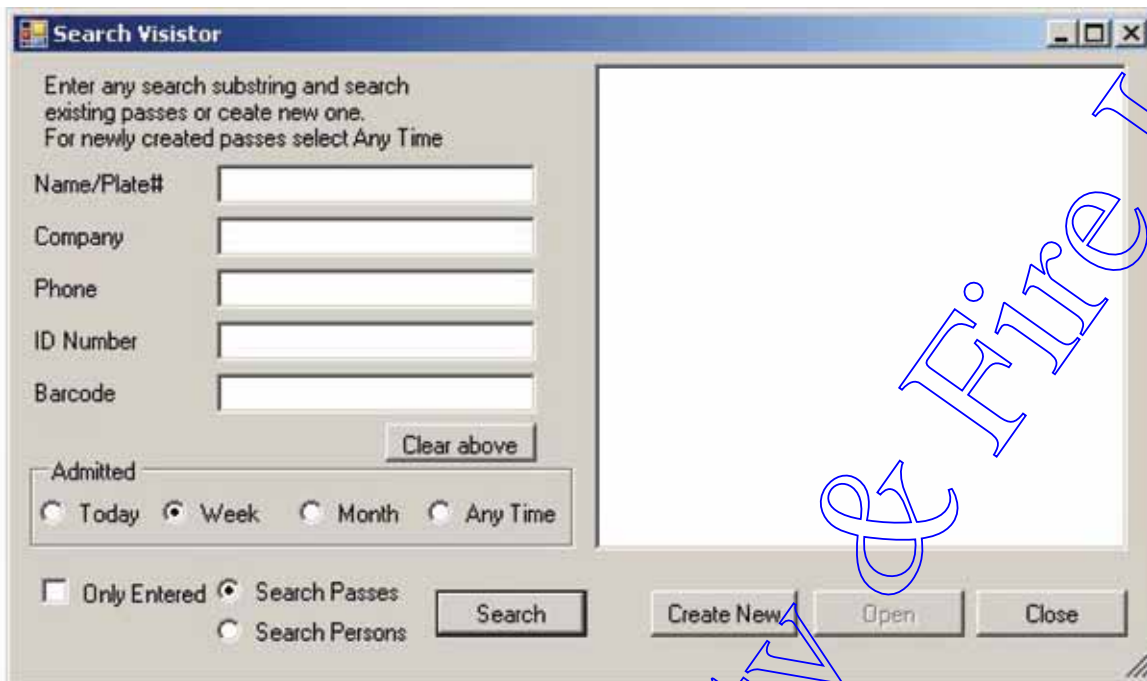
105	Emp 1	adata	wrz-14 02:46	<input checked="" type="checkbox"/>	wrz-1
106	Emp 1	adata	wrz-14 03:30	<input checked="" type="checkbox"/>	wrz-1
107	car 1	ccccccccc	wrz-15 02:55	<input checked="" type="checkbox"/>	wrz-2
108	Visitor 1	ccccccccc	wrz-20 09:34	<input type="checkbox"/>	
109	Emp 1	adata			

Mark Exit
 Show Pass Details

New/Copy Pass

New Pass

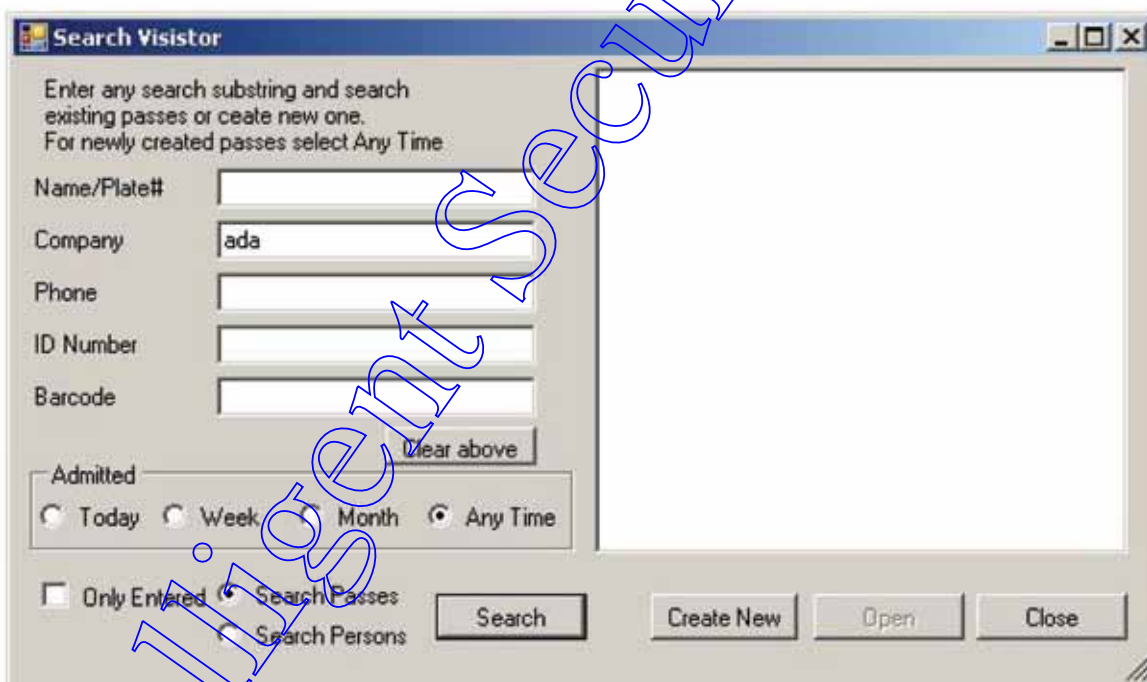
To enter a new Visitor press Create New button:



The 'Search Visitor' window is displayed. It contains a form for entering search criteria and a large empty box for results. The form includes fields for Name/Plate#, Company, Phone, ID Number, and Barcode. Below these fields is a 'Clear above' button. There is a section for 'Admitted' with radio buttons for Today, Week, Month, and Any Time. At the bottom, there are checkboxes for 'Only Entered', 'Search Passes', and 'Search Persons', along with 'Search', 'Create New', 'Open', and 'Close' buttons.

Copy Pass

To create a new pass for a Visitor who has visited previously enter any known part of there data, like name , company name or phone number. The system will find all records with similar data.



The 'Search Visitor' window is displayed. The 'Company' field is filled with the text 'ada'. The 'Admitted' section has the 'Any Time' radio button selected. The 'Search' button is highlighted. The 'Create New', 'Open', and 'Close' buttons are also visible.

After pressing search button we can receive:

Search Visitor

Enter any search substring and search existing passes or ceate new one.
For newly created passes select Any Time

Name/Plate# Emp 1

Company adata

Phone 23432423

ID Number adsasd

Barcode "2448111"

Clear above

Admitted

☐ Today ☐ Week ☐ Month ☒ Any Time

☐ Only Entered ☒ Search Passes ☐ Search Persons

Search Create New Open Close

Emp 1 @ adata ♪ 23432423 # adsasd

On the right side we can see a list of records in the database. It shows user data in the short form.

- The "@" sign is followed by company name
- The "♪" sign is followed by phone number
- The "#" sign is followed by ID number.

after pressing on one line all details are shown on the left side.

Operator can select Open for editing current pass or create new.

Editing Pass

New pass is empty and valid 1 hour.

Mark Existing | New Pass | Save | Close

TimeOut: 15 sec | AutoClose

Name: [] ✓
Company: []
Destination: []
To Person: []
Expire: 15 października 2011 04:29
Validity: 0 h 59 min
Barcode: []
Add to expire: 1h 3h 6h 1d till 17:00 till Friday

Person/Car data: New Person/Car | Snap Photo | Search | Save as new

☐ Employee ☒ Visitor ☐ Vehicle ☒ Is Active

Name: []
Company: []
Department: []
ID Number: []
IDType: []
Phone Number: []

Remarks: []
Press Ctrl + D to enter date

First select the pass type.

Then press Snap Photo button.

The system allows a snap from a camera, or from file, or the use of one of the default shadows.

Visitor Snap

Click on Snap button to take a snap

☒ Male ☐ Female ☐ Vehicle

Camera: StretchCamera 1 | Snap | From File | Save | Cancel

Select camera and press snap button when Visitor is ready.

Then enter the personal data.

New Person/Car Snap Photo Search Save as new Update

☐ Employee ☒ Visitor ☐ Vehicle ☒ Is Active

Name: Ms. Anna Grey

Company: Beauty Shoes Ltd

Department: PR

ID Number:

ID Type:

Phone Number: 123 456 7890

Remarks: She is loosing badge every time.
Press Ctrl + D to enter date

The remarks field is for entering important data about the visitor.
Press the “Save as new” button to save the visitor data.

Entering pass details

After saving the data the Operator can enter pass details.

Select the expiry date and destination location.

The expiry date can be adjusted by pressing one of small buttons beside the barcode.

Name: Ms. Anna Grey ✓

Company: Beauty Shoes Ltd

Destination: Management

To Person: Ms Ala Green

Expire: 21 października 2011 17:00

Validity: 6days 13 h 15 min

Add to expire


1h 3h 6h 1d

till 17:00 till Friday


The next step is badge printing. Press the Print button

Badge Preview

Visitor

 **Ms. Anna Grey**

Beauty Shoes Ltd



Valid to 21 października 2011 17:
Going to Ms Ala Green @ Management
ID# 46

Save to file Print Close

Show Printer setup dialog

See Visitors settings chapter about printing.

If your visitor is entering at this moment press Mark Entering button.

Entering/Exiting

Entering or exiting visitor can start using his pass

WARNING: Select All time for never used passes.

Search Visitor

Enter any search substring and search existing passes or create new one.
For newly created passes select Any Time

Name/Plate#

Company

Phone

ID Number

Barcode

Clear above

Admitted
☐ Today ☐ Week ☐ Month ☒ Any Time

☐ Only Entered ☒ Search Passes
☐ Search Persons

Search Create New Open Close

Ms. Anna Grey @ Beauty Shoes Ltd # 123 456 7890

After selecting appropriate pass press Open button

Mark Entering **Not Entered** Set Enter: 15 października 2011 @ 03:54 Print New Pass Save Close

Mark Exiting **Not Exited** TimeOut 16 sec. ☐ AutoClose

Name Ms. Anna Grey ✓
 Company Beauty Shoes Ltd
 Destination Management
 To Person Ms Ala Green
 Expire 21 października 2011 17:00
 Validity 6days 13 h 5 min

Remarks: She is loosing badge every time.

Photo + ID card date

and then Mark entering and close.

Above pass Will appear in the passes list.

Entered Persons List

☐ Show Employee ☒ Show All Current Location: AllLocations Use current time for End time

☒ Show Visitors ☐ Show Exited Only Begin Date: 15 października 2011 End Date: 15 października 2011

☒ Show Vehicles ☐ Show Non Exited Only Begin Time: 00:00 End Time: 03:55

Name: Company:

Entry ID	Visitor Name	Company	Enter Time	Exited	Exit Time	Time In	Valid To	To Person	To Department
111	Ms. Anna Grey	Beauty Shoes Ltd	15-10-2011 03:55	<input checked="" type="checkbox"/>		00:00	2011-10-21	Ms Ala Green	Management

Total Entered: 1 Total In: 1
 Employee: 0 Employee In: 0
 Visitors: 1 Visitors In: 1
 Vehicles: 0 Vehicles In: 0

Print Close

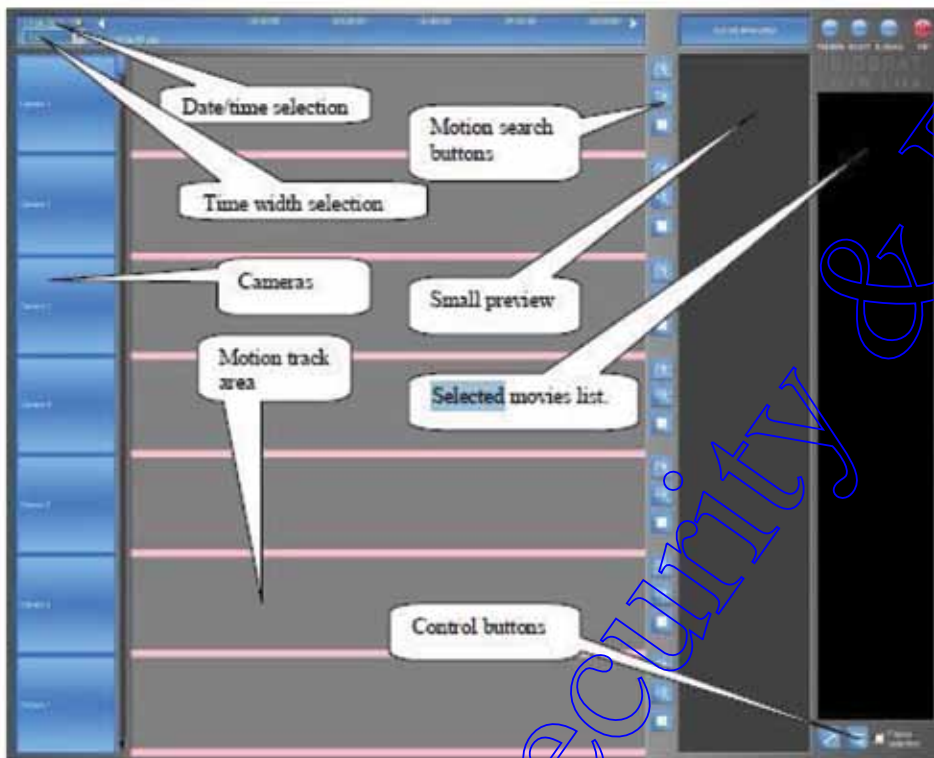
Search

This window is used for the easy exploration of recorded films.

You can easily detect any movement. There is also an option to export the film to an external memory card.

The screen is divided into 3 parts:

- Motion track explorer: this occupies nearly the entire screen. It allows you to work on the grabbed films. It starts with the name of the camera and ends with the administrative buttons;
- MOVIE PREVIEW: an area which displays the chosen part of the track;
- Recordings list: list of the fragments which generates automatically (after marking required area), which later on is to be recorded onto an external source.



Freeze Selection

To save selected parts of the track check the Freeze Selection box [ Freeze selection].

Attention: after checking this box you won't be able to mark new fragments of tracks. It is possible only after un-checking the Freeze Selection box

Motion search

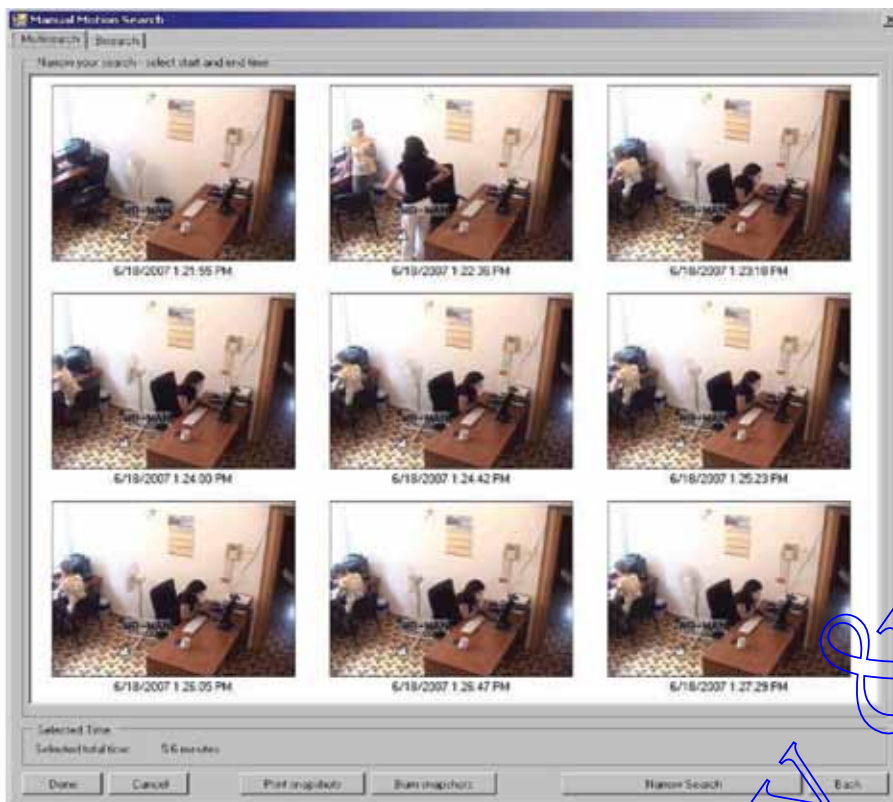
Manual motion Search

The manual Motion Search option helps to find a movement manually in a chosen fragment of a track. There is no need to watch a recording to notice any movement.

To activate the Manual Motion Search options go to the second screen (Select), mark a fragment of a recorded track (it must be longer than 30s) and press the Manual

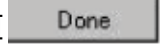
Motion Search button [].

This button must be appropriate to the track (just on the right side of a track). You will see a window like the one below. The chosen fragment of the recording is displayed with the nine snapshots.



Mark the search area by clicking on two snapshots.

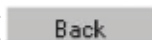
After that, press the Narrow Search button [].
The time of Search area gets shorter automatically.


When you find the fragment you want, press the Done button [].
The window disappears and it provides visible changes on the track the fragment comes from.
The marked area gets shorter and corresponds with the changes made on the Manual Motion Search window.

To print snapshots press the Print Snapshots button [].

To burn snapshots press the Burn Snapshots button [].

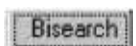
To cancel your last choice in Manual Motion Search, press the Back button

[] - It goes one back by one selection.

To quit the window with no changes on tracks on the second screen, press the cross in the right top corner or the Cancel button [].

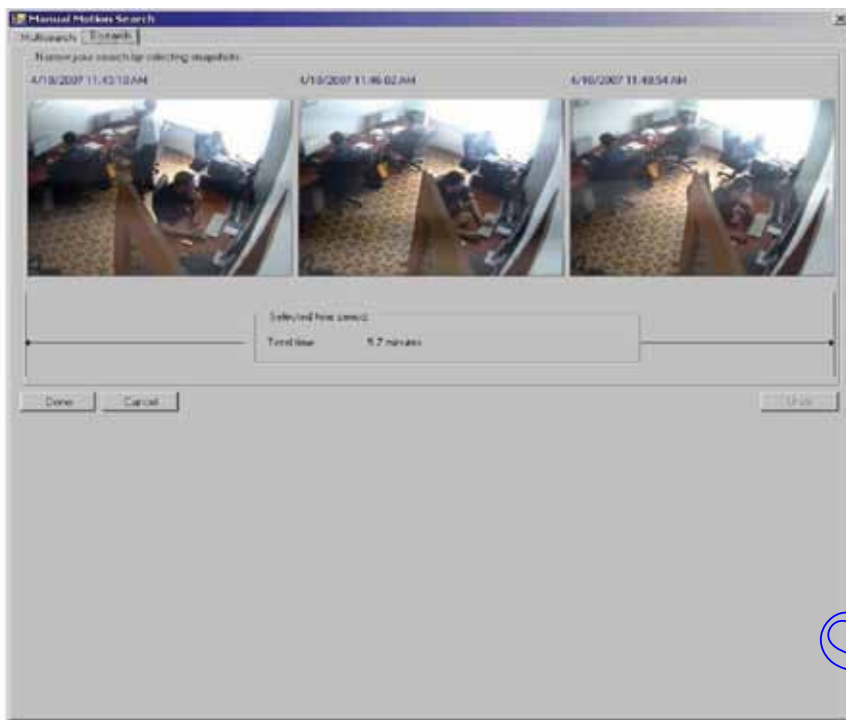
Manual Motion Search – Bisearch

To activate the Manual Motion Search option, go to the second screen (Select), mark a fragment of a recorded track (it must be longer than 30s) and press the Manual Motion Search button.

This button must be appropriate to the track. Then click the Bisearch tuck [] in the top left corner (next to the Multisearch tab).

You will see a window like this below.

The chosen fragment of a recording is displayed by 3 snapshots.



To find any movement and limit the searching area, click the left mouse button on a chosen (left or right) snapshot.

At the end, press the Done button.

The window will disappear and it will provide visible changes on the track the fragment comes from.

The marked area gets shorter and corresponds with the changes made on the Manual Motion Search window.

To cancel your last choice in Manual Motion Search press the Undo button [].


It will go back one selection.

To quit the window with no changes on the second screen, press the cross icon in the right top corner or press the Cancel button.

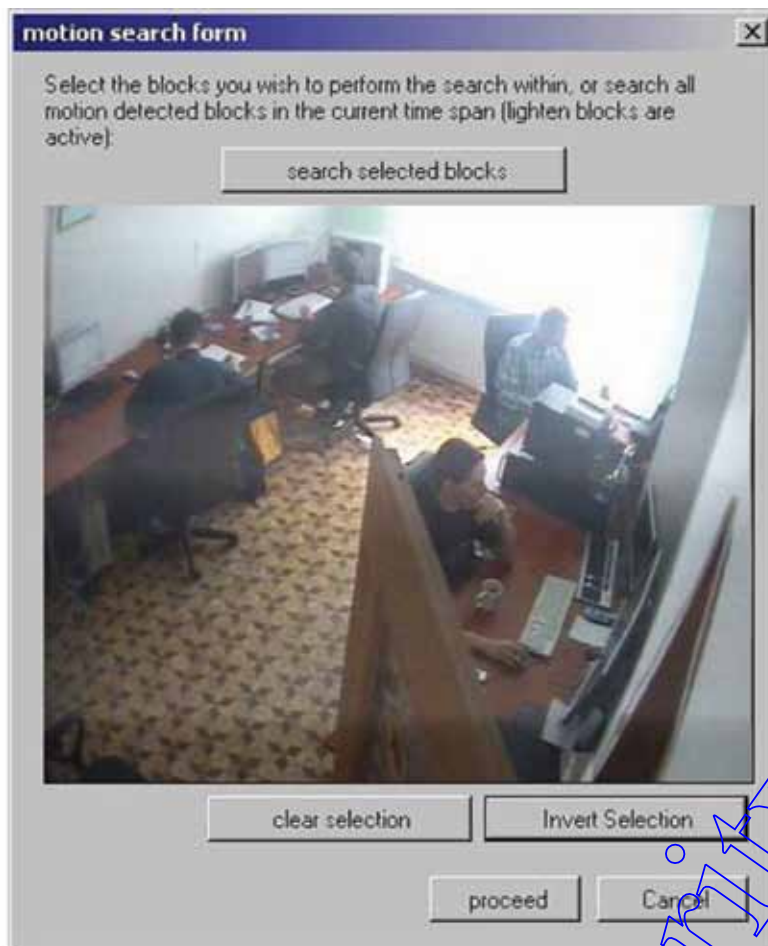
Automatic motion search

The Automatic Motion Search option marks a definite area where movement is detected.

The unmarked areas stay beyond control.


To activate the Automatic Motion Search option go to the second screen (Select), mark a fragment of a recorded track (it must be longer than 30s) and press the Automatic Motion Search [].

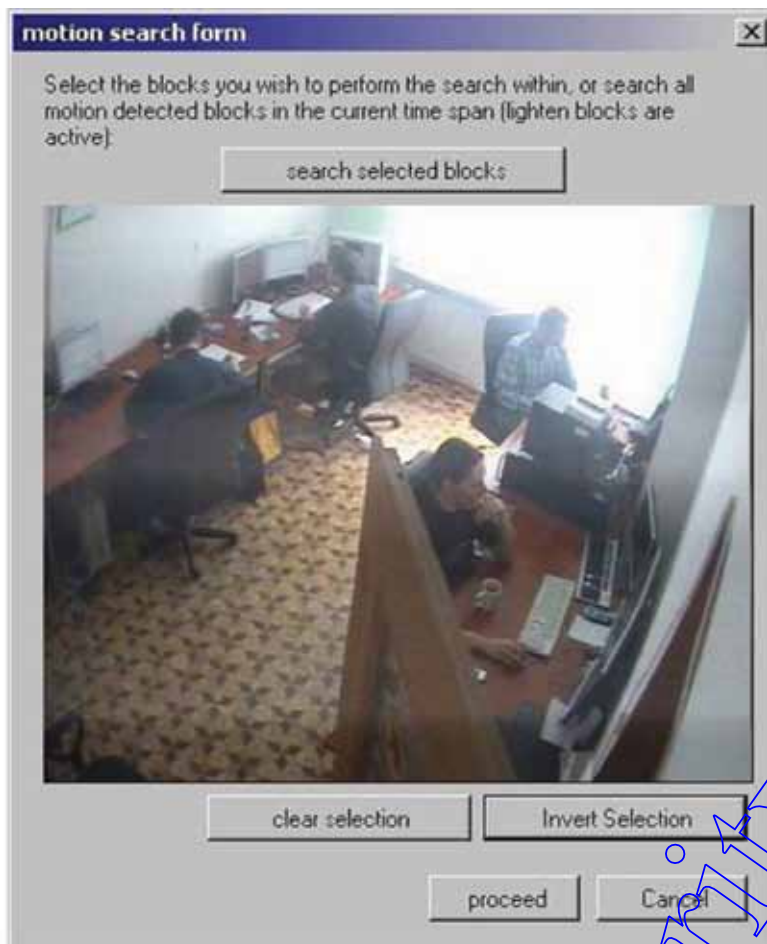
You will see a window like the one below.



To select the blocks you wish to observe left click on the viewport. Blocks with the active motion detection option will be highlighted. The user can mark a wider area by dragging using the middle mouse button on the viewport. To find the blocks where the movement has been registered press the Search Motion Blocks button. It allows the user to find the locations of the recorded movements. To clear the view from the highlighted blocks press the Clear Selection button. To invert your selection press the Invert Selection button. Pressing the Proceed button will start the software searching for any movement in the selected area. If the numbers of movie fragments are too big, the user will be asked to whether to continue.

Archiving

Automatic Motion Search option marks a definite area where movement is detected. The unmarked areas stay beyond control. To activate the Automatic Motion Search option go to the second screen (Select), mark a fragment of a recorded track (it must be longer than 30s) and press the Automatic Motion Search []. You will see a window like the one below.



To select the blocks you wish to observe left click on the viewport.
 Blocks with the active motion detection option will be highlighted.
 The user can mark a wider area by dragging using the middle mouse button on the viewport.
 To find the blocks where the movement has been registered press the Search Motion Blocks button. It allows the user to find the locations of the recorded movements.
 To clear the view from the highlighted blocks press the Clear Selection button.
 To invert your selection press the Invert Selection button.
 Pressing the Proceed button will start the software searching for any movement in the selected area.
 If the numbers of movie fragments are too big, the user will be asked to whether to continue.

Date/Time search





Administration of recorded movies

Date element and timeline on the Select screen

This function identifies the precise time and date of the recorded movie presentation. You can also change time range.

Available time ranges -

1 minute, 10 minutes, 1 hour, 8 hours, 1 day, 7 days, 4 weeks, 12 weeks, 1 year.

An alternative way of changing the time range:

To change a time range, click with the right mouse button on a horizontal of the timeline.

Drag it to the left or right side of a timeline and release it.

The changes are automatically visible on the timeline and tracks.

The starting point of the changed time range will be from the moment the mouse button was pressed until the moment it was released.

Update the timeline

Because the timeline does not refresh automatically, to get the actual status of the timeline, on the Select

Screen press the Refresh button []

Event search

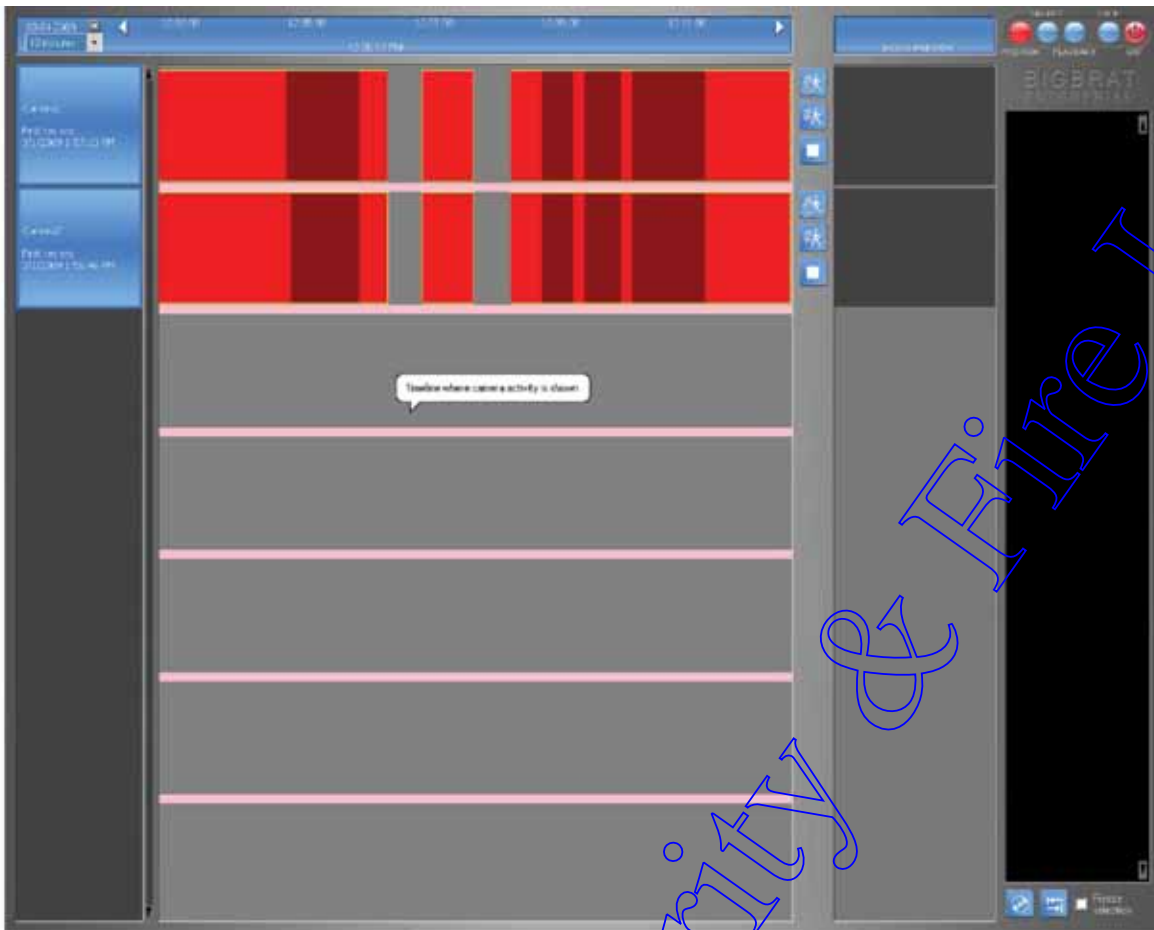
Operator can search over events

Playback

The third window of the application is used for watching the recorded films

The Following actions are available:

- Preview of the marked area of a track,
- Advanced options for playing fragments of the film (slow, fast playback)
- Making snapshots with the possibility of preview, printing and burning on DVD,
- Burning to a DVD /CD or a USB Stick



On the third window of the application, we can watch recorded tracks from various cameras. The snapshot, printing and burning on CD/DVD functions are also available. The other important possibilities are the advanced playback functions with stop, fast forward and rewind and also speed up and speed down options

Common

There are a few services that are common in Client an can appear on different pages.


Burning on DVD and Printing
Time Line
Snapshots

Burning and Printing

WARNING: Burning to CD or DVD and collecting the data to burn may take a while. Please be patient when you select long periods of recordings.


1 Burning on the second screen: "Select"

To burn a recording on the Select screen:

- Mark the part of a track and press the burning icon [],
- There are two burning options: you can burn recordings onto a DVD or copy it to a chosen folder of a USB/disc.



2 Burning on the third screen: “Playback”

To burn a recording on the Playback screen:

- Switch the recording from the recording list into a viewport or an empty slot and click on the burning icon [].
- There are two burning options: you can burn recordings onto a DVD or copy it to a chosen folder of a USB/disc.



3 Burning the snapshots on the third screen: “Playback”

To burn a snapshot on the Playback screen:

- Mark the part of a track in the second screen.
- Go to the third screen and drag the recording from the recording list into a viewport or an empty slot.
- Make a snapshot by clicking on the appropriate icon ( see snapshot section).
- Mark a snapshot by clicking on it on a snapshots list;
- Press the burning icon [].
- There are two burning options: you can burn recordings onto a DVD or copy it to a chosen folder of a USB/disc.

4 Printing the snapshots on the third screen: “Playback”

To print a snapshot on the Playback screen:

- Mark the part of a track in the second screen.
- Go to the third screen and switch the recording from the recording list into a viewport or an empty slot;
- Make a snapshot by clicking on the appropriate icon ( see snapshot section).
- Mark a snapshot by clicking on it on a snapshots list.
- Press the printing icon [].
- The user can also print a snapshot using the snapshots menu:
- Click with the right mouse button on a snapshot to activate the submenu of snapshots,
- Click on the “Print” icon to print marked snapshot,
- Click on the “Print preview” icon that shows a preview of an area to print.

Time Line

Timeline on the Preview screen

The timeline on the Preview Screen shows the last 10 minutes of the track from active cameras placed on the viewports.

The red colour means that a movement was registered.

The blue colour means that there was no movement registered.

One timeline is attributed to one camera.

The timeline is also used to activate the Quick Preview option.



Tracks on the select camera in playback

The colours of the tracks on the Select screen show if any movement was registered. Lack of movement is represented by dark red colour, registered movement by light red colour.

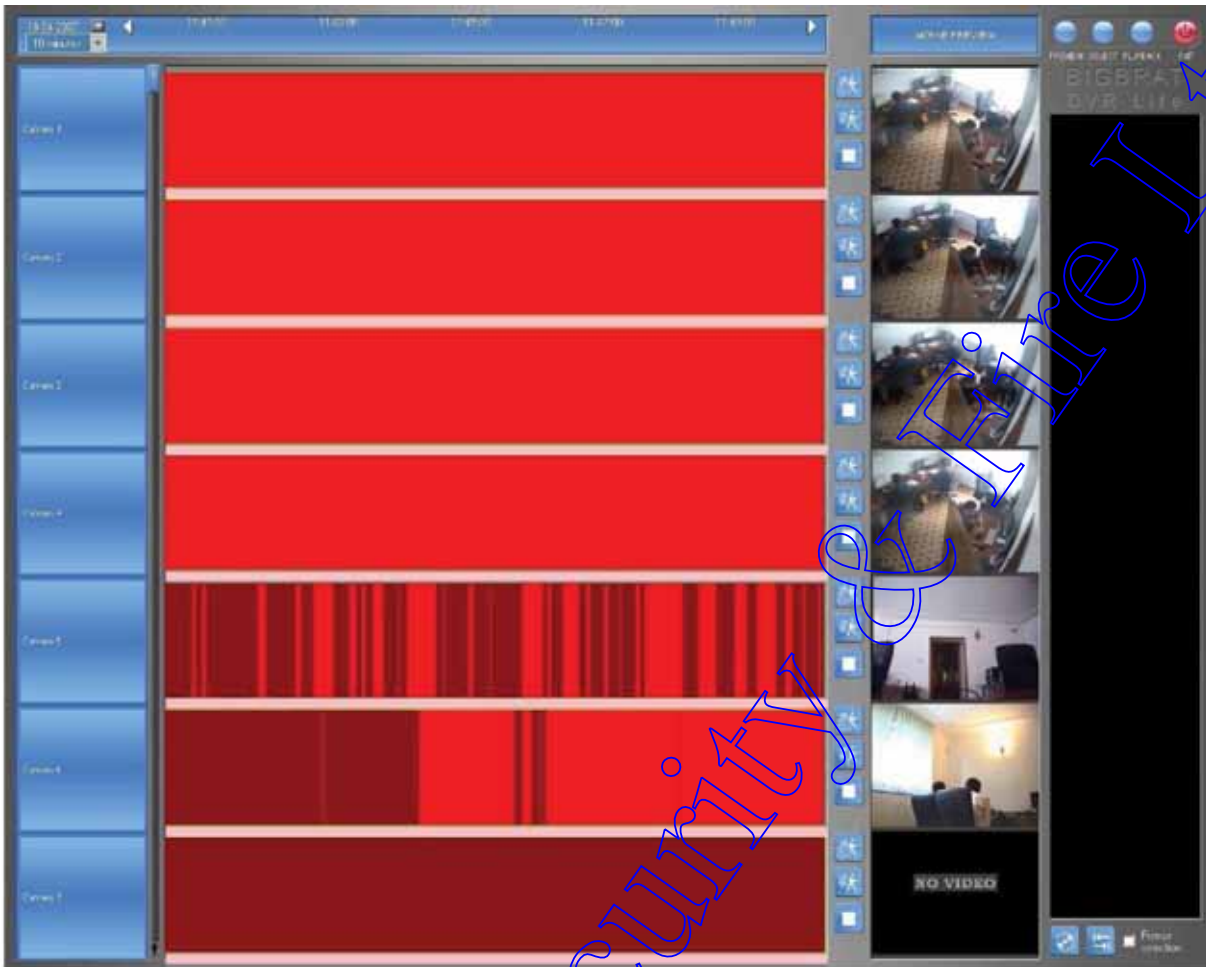


Snapshots

Snapshots on the Select screen

Snapshots

Snapshots on the Select screen




To make a snapshot, click on the chosen area of the recorded track with the left mouse button.
The snapshot appears on the Movie Preview list.
To cancel the snapshot, just press the Stop button.

Snapshots on the Playback screen



To make a snapshot

Step 1: Mark a viewport that has an active movie file (click on it with the left mouse button to make it active)





Step 2: Press the Snapshot button [] to make one snapshot (to make more than one click it several times)

Step 3: The snapshot appears on the snapshot list






Step 4: To make a snapshot from other viewports mark one (by clicking on its area) before pressing the Snapshot button.

Administration of snapshots


Under the list of snapshot there are buttons responsible for the administration of snapshots:

	Element		Name	Function
Snapshots		Snapshot making	Make snapshots during playing the film	Snapshot making
		Snapshot burning	Record snapshots made with Snapshot making (1) button	Snapshot burning
		Snapshot deleting	Delete previously marked snapshots	Snapshot deleting
		Snapshot printing	Print snapshots made with Snapshot making (1) button	Snapshot printing

Click the right mouse button on a snapshot to activate the submenu of snapshots. The options available in the submenu of a snapshot:

	Copy	Copy marked snapshot
	Delete	Delete marked snapshot
	Large picture preview	Make a large picture preview of marked snapshot
	Print	Print marked snapshot
	Print preview	Preview of an area to print

To cancel the snapshot:

- Step 1: Click the snapshot with the left mouse button and press the Cancel button []
- Step 2: Select a snapshot with the left mouse button and make a right click on it to activate the submenu. Choose Delete option to cancel a snapshot.

Player

Player is a separate program for playback of exported footages.

It allows the user to present footage without using the DVR.

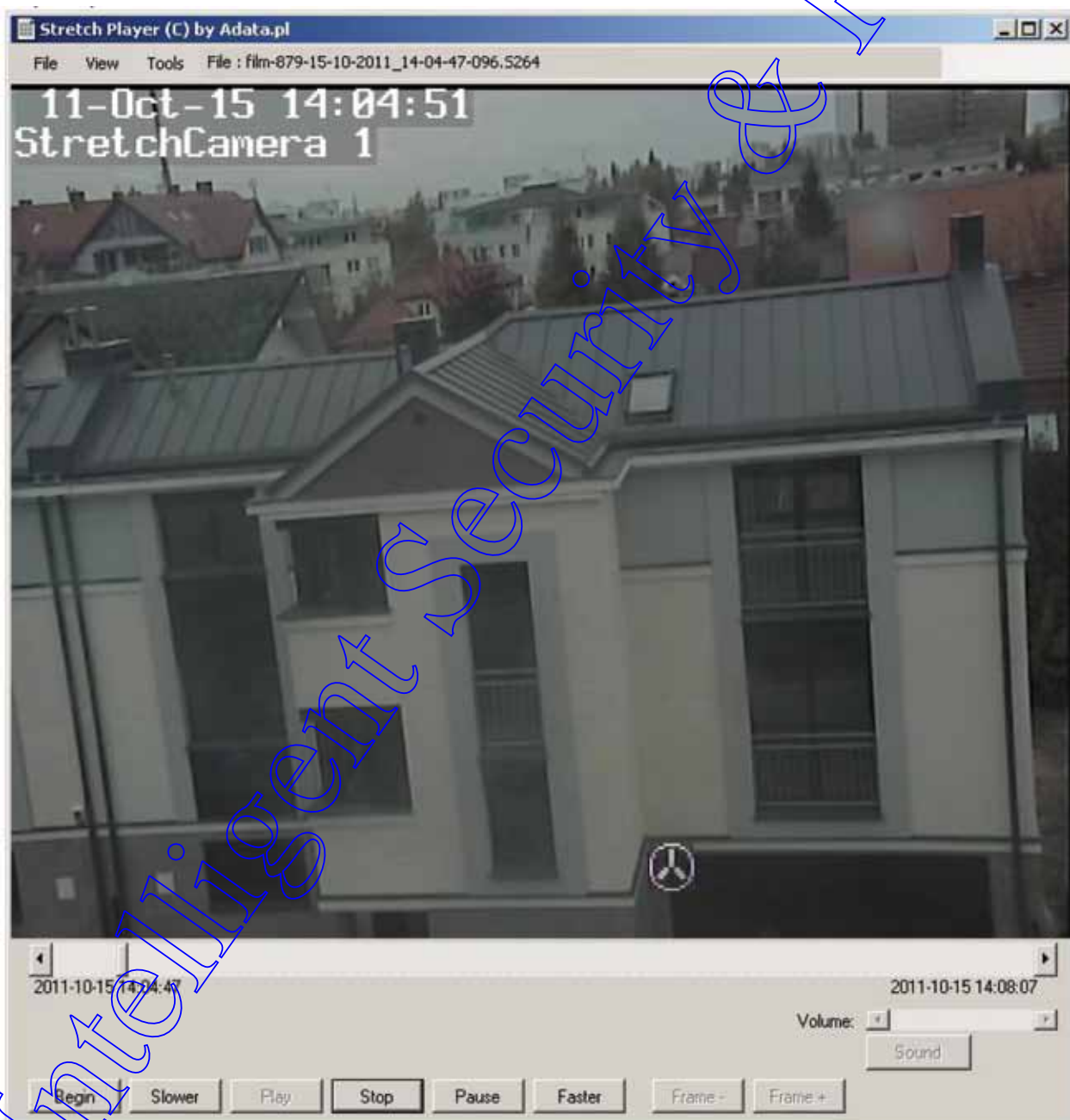
Player program and all necessary DLL files are always added to burned footages.

Player Tasks

Menu File Open	Opens file
Play	Playing footage
Stop	Stopping playback
Pause	Pause playback. In this mode one frame forward or backward can be played.

Begin	Rewind to file beginning
Slower	Plays at a slower speed. Subsequent pressing will give a slower speed (up to 0,25 of original)
Faster	Plays at a faster speed . Subsequent pressing will give a faster speed (up to about 120 fps)
Sound	Mute or un-mute playback.
Menu - Tools - Convert to *.mov	Saves current file in .mov format
Menu - Tools - Register file extension	Registers this player in the operating system as the default player for files with extension '.s264'
Menu - Tools - Join movies	Join several movies into one file.
Menu - Tools - make snapshot or Right mouse button click	Makes snapshot in the same folder as movie folder. Snapshot files are numbered in the creation order

Player layout



Player status

Current play position. Can be dragged



Begin time

current time time from begin average fps

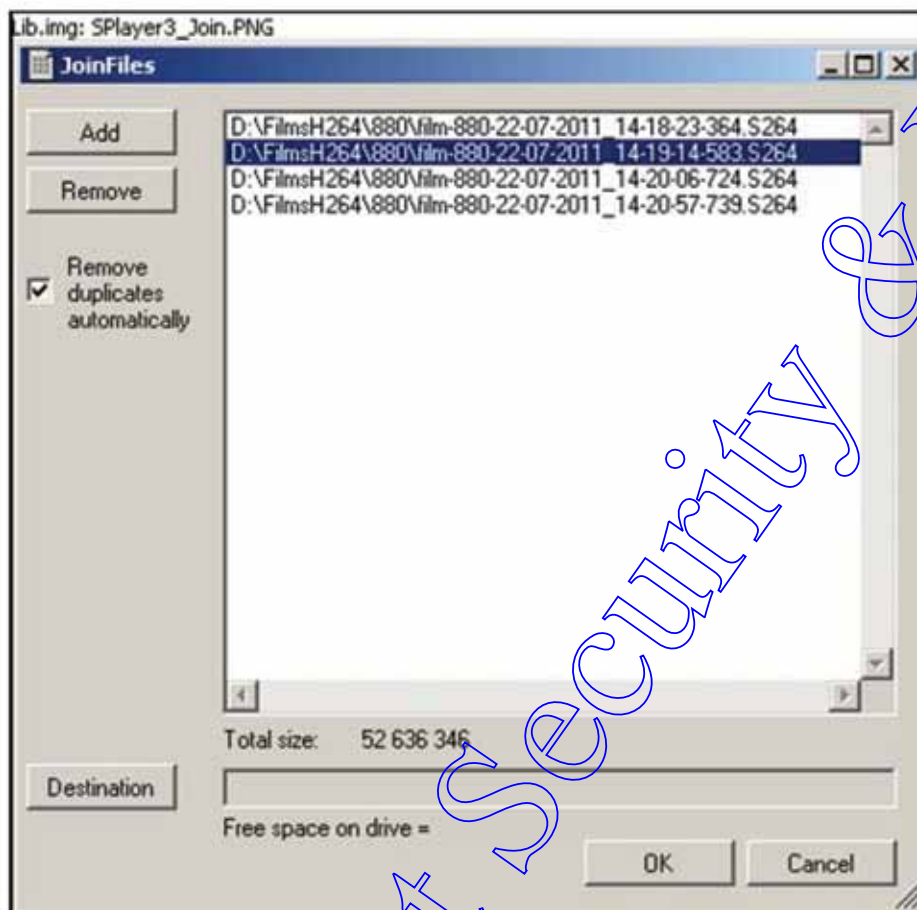
End move time

Join movies

To select more movies press the "Ctrl" key during selection.

One can add or remove movies.

Select destination file.



For a snapshot of the image use the RMB.



Mobile phone

It is possible to preview cameras on either a mobile phone or an internet browser.

After setting the HTTP server up, the user can preview DVR cameras.

Android, iPhone, Blackberry ..

Enter you camera site.

Write in browser:

http://<DVR IP address>:<port>

e.g.

http://123.45.67.89:8080



enter login id and password



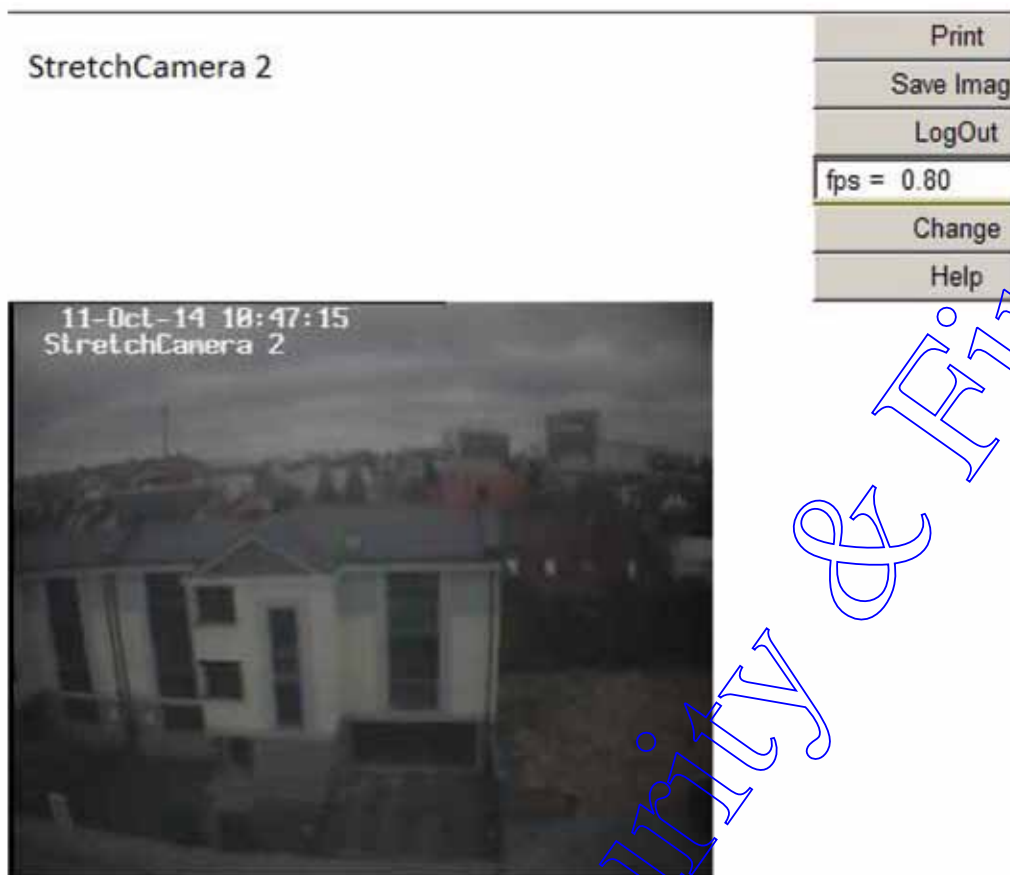
press the change button to select a camera



select framerate, camera and quality then press the Close button

Enjoy the preview.

The preview image can flicker if your browser lacks support or has a disabled canvas.



Older phones

Older types of phone cannot support javascript or have only a limited functionality. Enter your camera site.

Write in browser:

`http://<DVR IP address>:<port>/noscript`

e.g.

`http://123.45.67.89:8080/noscript`

AData sp.z o.o. AData DVR mobile no script client

Enter
Login

Password

Login

For proper functioning of this application you have to enable cookies in your browser.

WARNING: If you browse this page on mobile device check your operator Data plan.

enter noscript user name and password

Select Camera

- [StretchCamera 1](#)
- [StretchCamera 2](#)

[Close](#)

select a camera
and enjoy the preview



StretchCamera 2 [Back to select Camera](#)

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Administrator Manual

Intelligent Security

DVR Guard (for administrator)

This program is used for supervising the DVR.
It can be run in two modes:

Administration mode
User mode

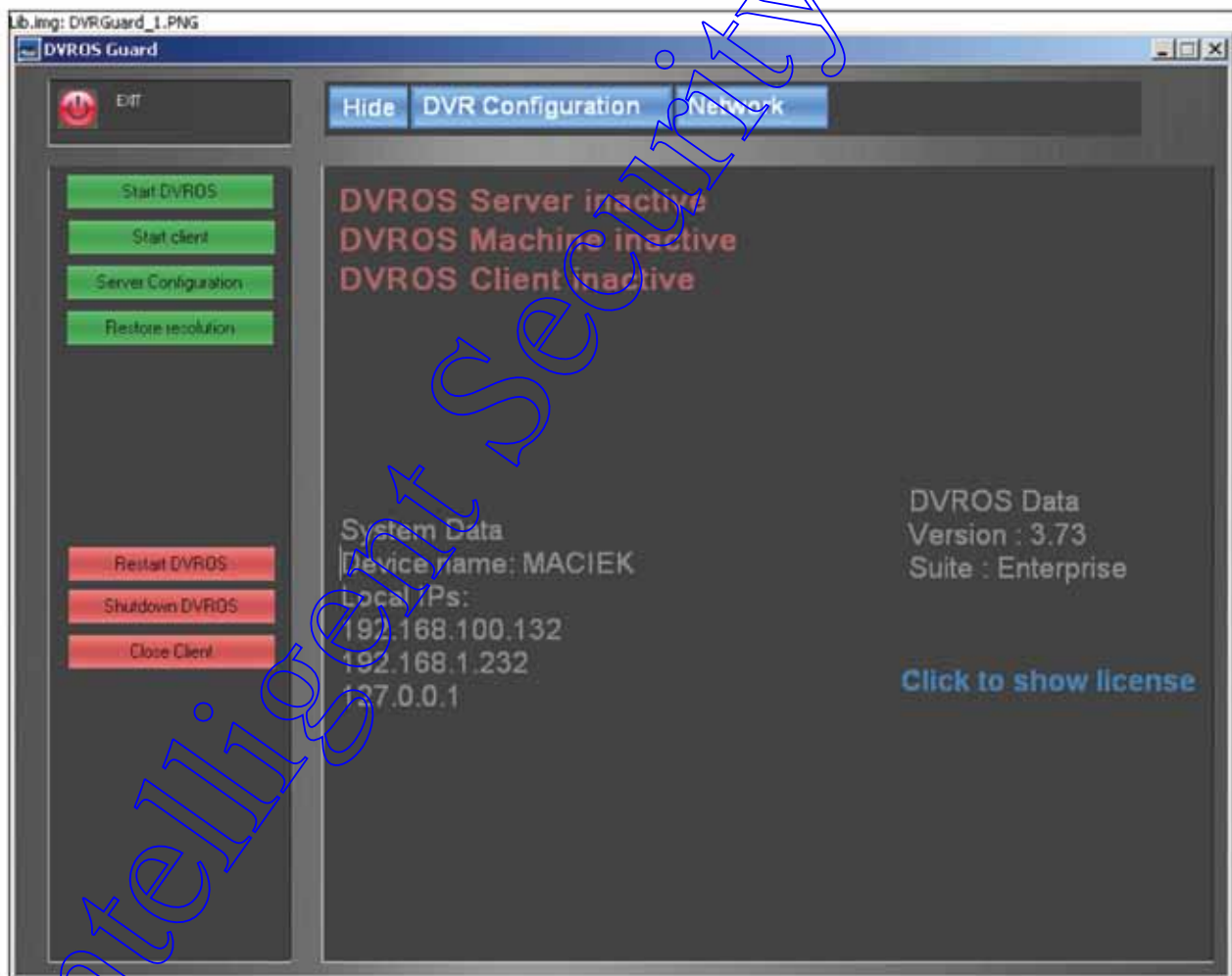
In the User mode, the user can only run the Client application.

In the Administration mode, the Administrator can setup starting parameters for all users and perform the maintenance of system services.

In DVR Guard there is also information about the Licenses available.

There following main tasks can be performed in DVR Guard:

Start, Restart and shutdown DVR	Starts (...) DVR services (Server and machine)
Start and Stop Client	Starts and stops Client
Start Server Configuration	Starts Server Configuration (see Configuration)
Set DVR Configuration	Configures DVR Guard tasks and layout of the current DVR (for Admin)
Checking license	Shows current license settings
Set NAT settings	Configures network settings

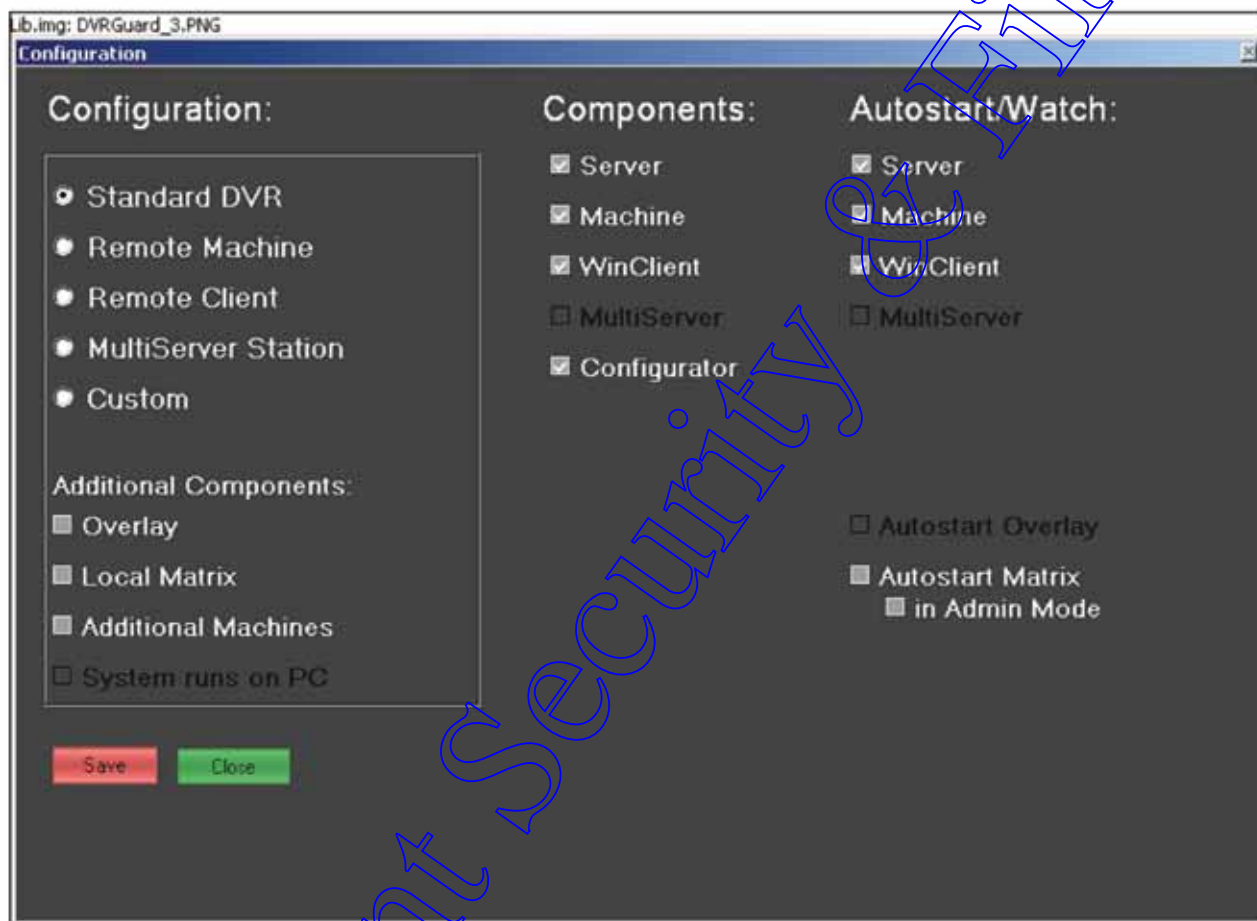


DVR System Configuration

The configuration panel can be used for two tasks:

Set the DVR Guard configuration	Setting the Configuration will remove unused buttons from the main layout of DVR Guard. One can add components by checking appropriate option
Set Autostart options	Sets the watch options. Will allow the user to automatically restart DVR services without going into the administrator mode.

Remark: This page does not show the current configuration. It needs to be set up every time before you save.

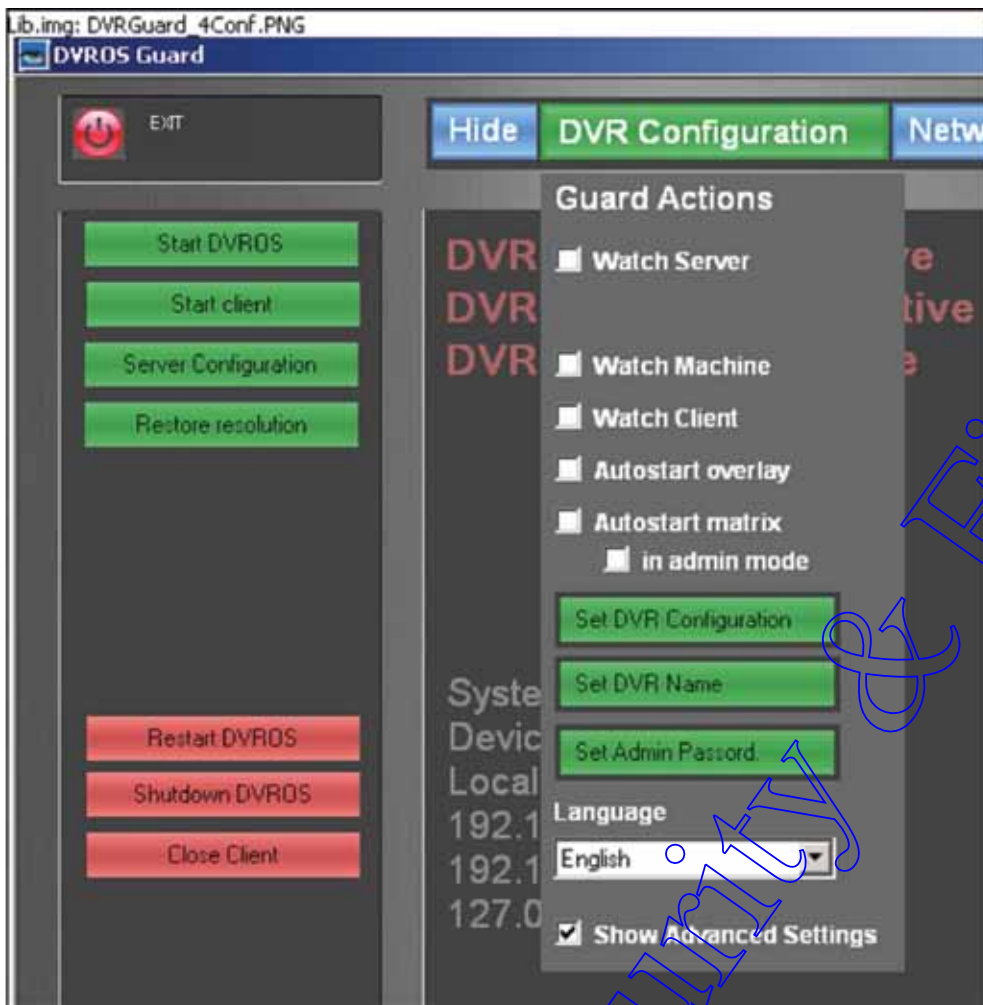


Other tasks

Other DVR Guard tasks:

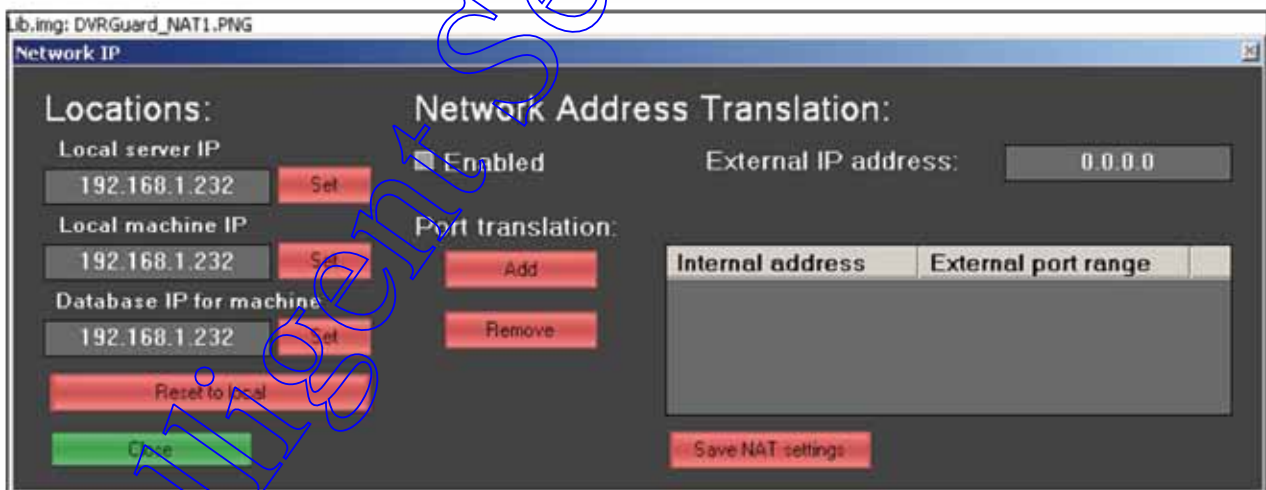
Set DVR name	Sets the DVR name (the name of computer visible in the network. Set it when more than one DVR exists in the network)
Set Administrator password	Sets the Administrator password. There is an Operating System Administrator password. It is different from the DVR administrator password.
Set DVR Guard language	Changes DVR Guard Language

Remark: Press "Hide" to close menu.



NAT settings

This screen is used for setting the visibility of the DVR in the local network and/or in the internet.

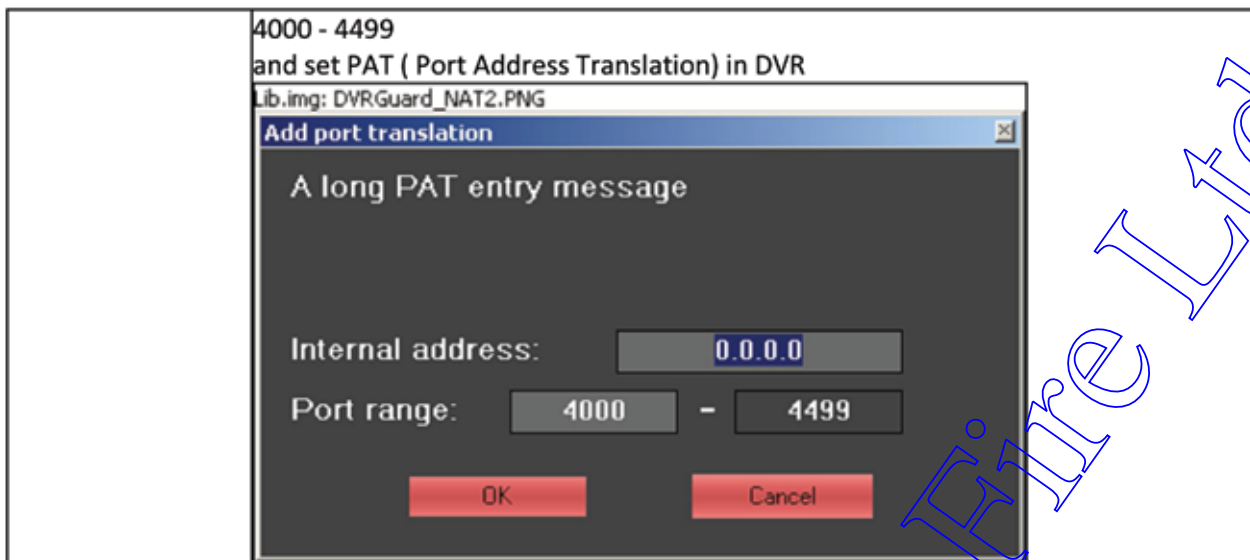


The left side is used for setting up the IP addresses of the DVR.

If you want to have the DVR visible in the network set Locations to the local network IP address.

Internet visibility:

Without router	Set the DVR addresses visible in the Internet
With router DMZ	Set the DVR address visible in the network and set DMZ addresses on the router.
With router	With the standard router configuration one needs to enable NAT (Network address translation) in DVR and open the following ports on the router: 3900 - 3999



To manage the Network Card in the DVR use the network panel in the operating system.

Advanced tasks

Advanced menu options are enabled after checking the option in Configuration menu.
Advanced DVR Guard tasks.

Install Multiserver	Installs Multiserver service on the computer. Warning: Multiserver cannot be installed on DVR.
Startup Times	Change startup times when pie chart progress is going to slow or to fast.

DVR Configurator

General information

Generally, in DVR, all configuration parameters are read during initialization only, so after introducing changes, the DVR system must be restarted (**see DVR Guard for restarting**).

WARNING:

It is not advisable to change vital system parameters such as when Services or Client applications are running.

The only exception is setting the camera schedule, as here parameters are read every 1 minute.

Setting the Configuration can be run from the Client application or from DVR Guard or as a standalone application (Config.exe).

DVR Configurator can be started in DVR or on any remote computer having access to the Server.

In both cases the DVR Configurator is connecting to the Server by a TCP/IP connection, but connecting remotely. The Administrator needs to remember that files need to be open on the server, not on his computer).

To enter into DVR Configurator the user must have Administrator privileges.

WARNING:

Without setting special access privileges it is impossible to run configuration from outside of the network domain.

After the start the user can see the following Login form.



DVR Login

DVR Server:

Login:

Password:

Forced IP Address:

☒ Remember me
 (automatically logs you to the server on the entered account the next time you run the DVR; this setting can be altered in the configuration)

version 4.10.4303.325 (Debug)

Login Cancel

The User needs to select the server and enter the Login name and Password. For a freshly installed system the Login name is “**administrator**” and the password is “**super**”. Passwords are case sensitive.

DVR Configurator layout:



Machines
Cameras
Devices
Users
E- Map
Advanced
Info
Close

Select left buttons for editing DVR components.
More advanced options one can find under 'Advanced' button

Show keyboard

Transparency

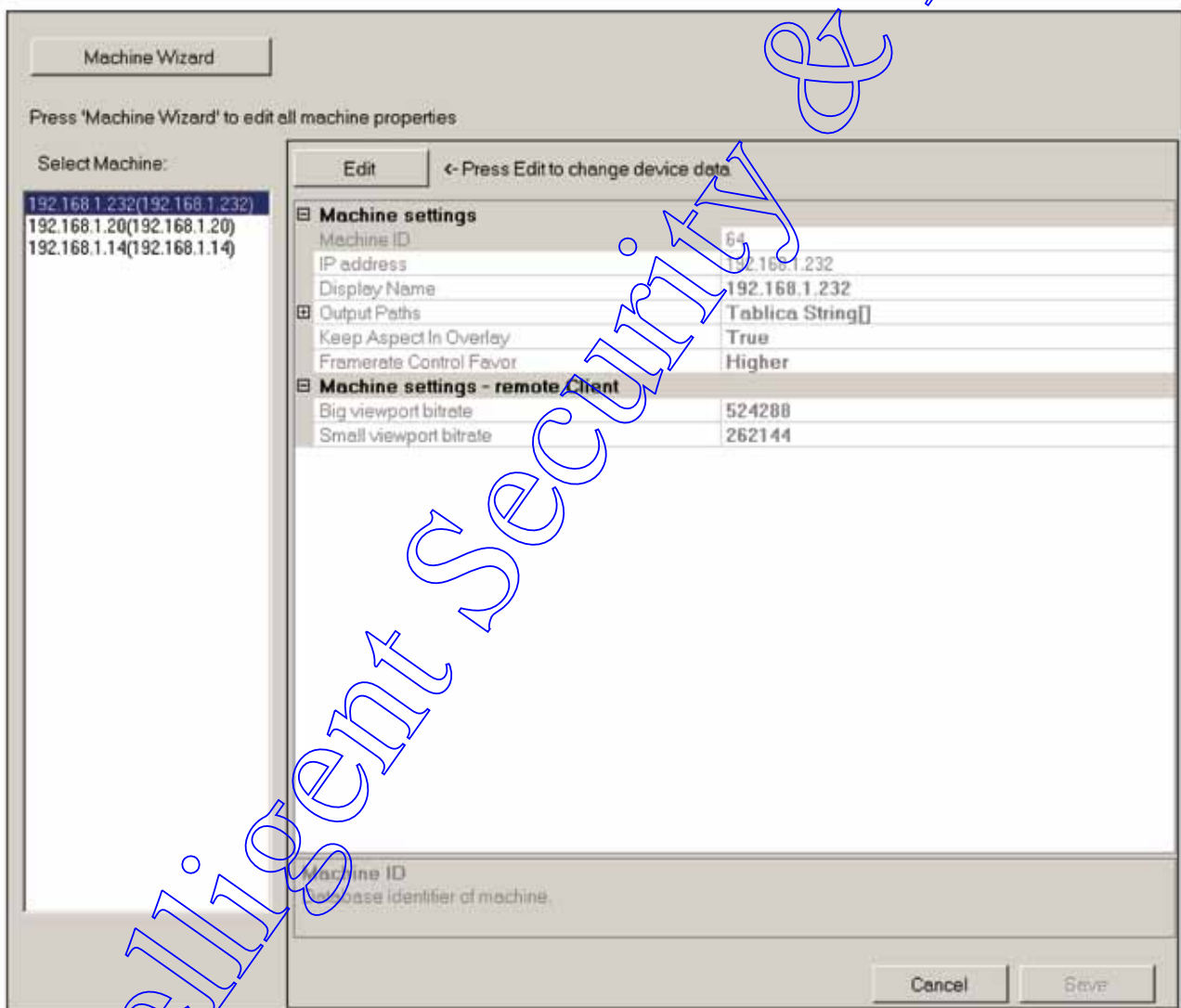
Network Configuration

When the User wants to use the network facilities of the DVR, he must configure the network properties. The configuration of the network parameters must be performed once, just after system installation or after delivery to the customer site.

1. From "Start -> Settings -> Control Panel" open the Network connections icon
2. There are two network connections:
 - a. Loopback– with address 192.168.100.132
 - b. Network card – with default settings
3. Configure the Network card settings according to local network settings (leave DHCP settings and set the static IP address, mask and optionally gateway and DNS).
4. If the Loopback settings collide with your local settings, change the IP address to a non existent IP address in your local network

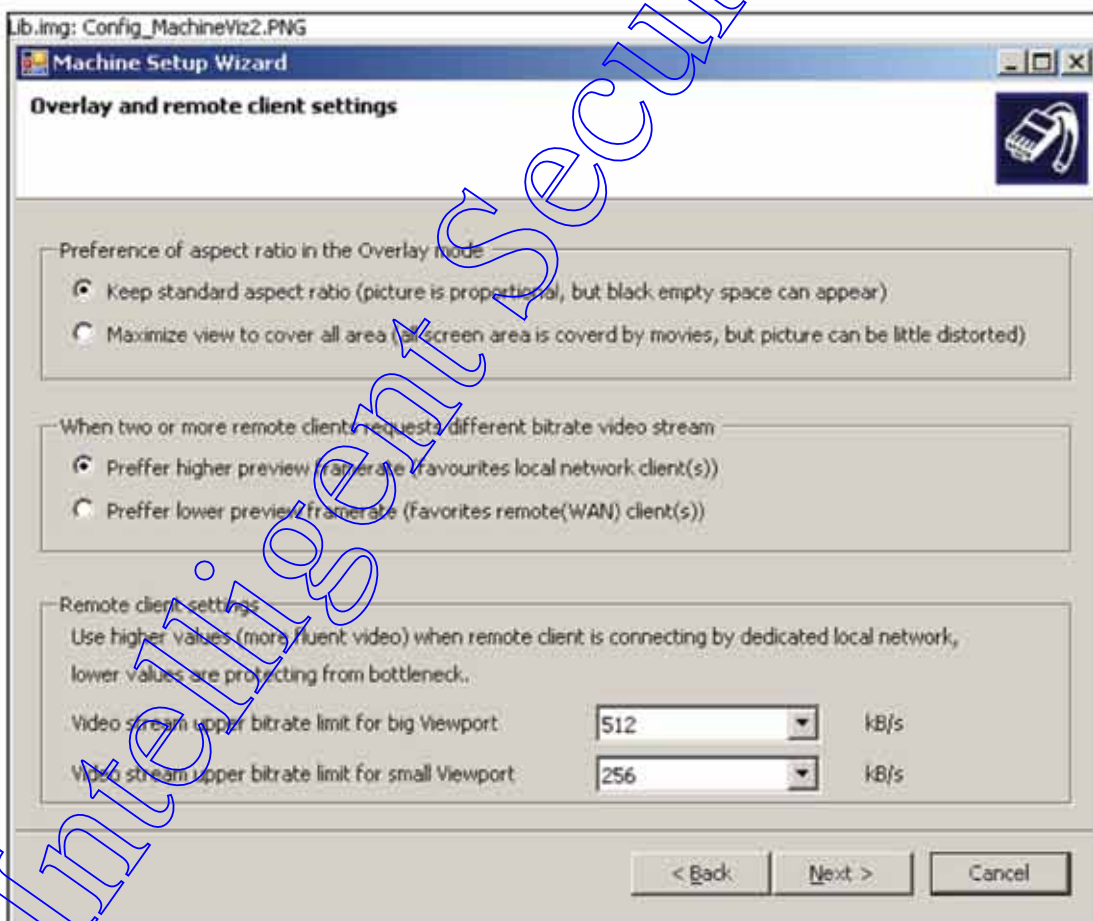
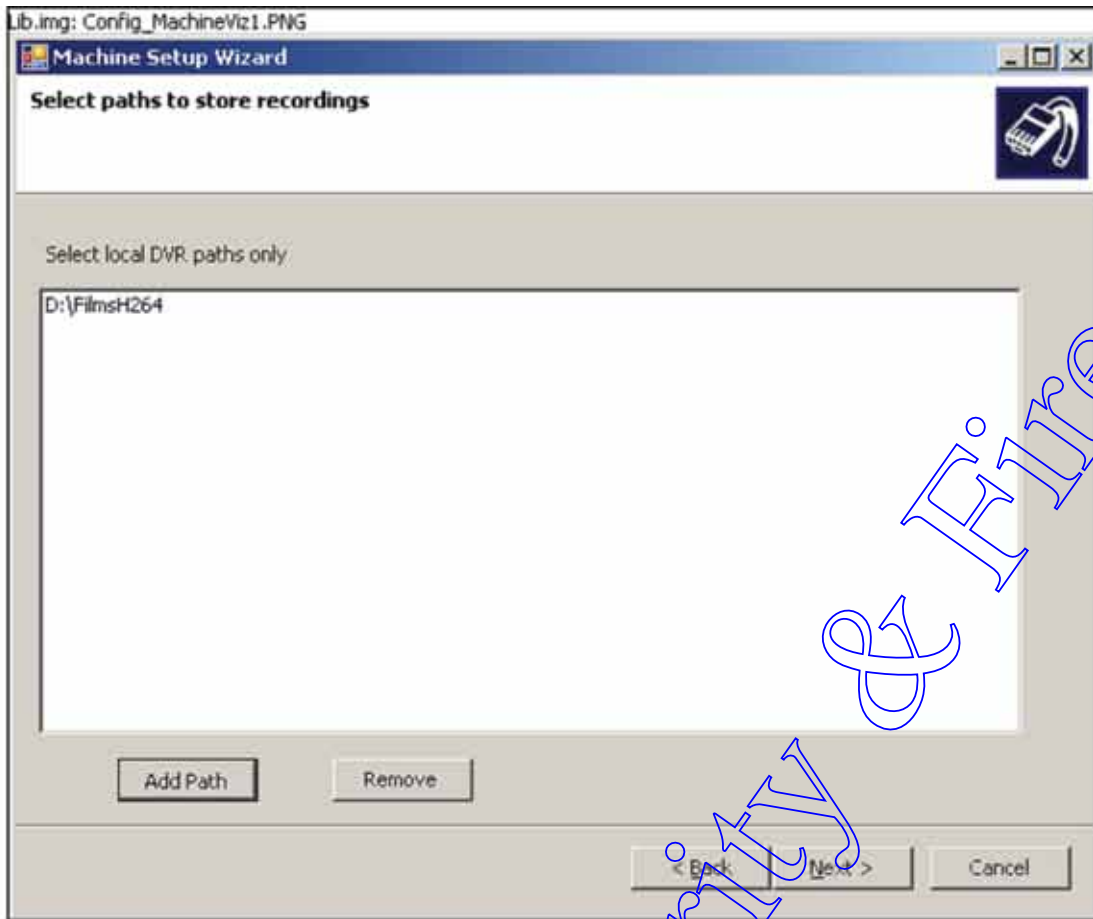
Machine configuration

Select the Machines menu item.



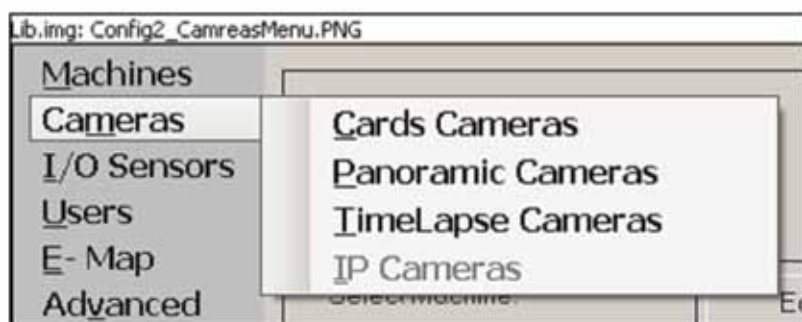
To configure for the Machine please use the Machine wizard

Add storage paths to the machine. One per disk.



Camera configuration

Allows the user to setup camera properties:



one can select

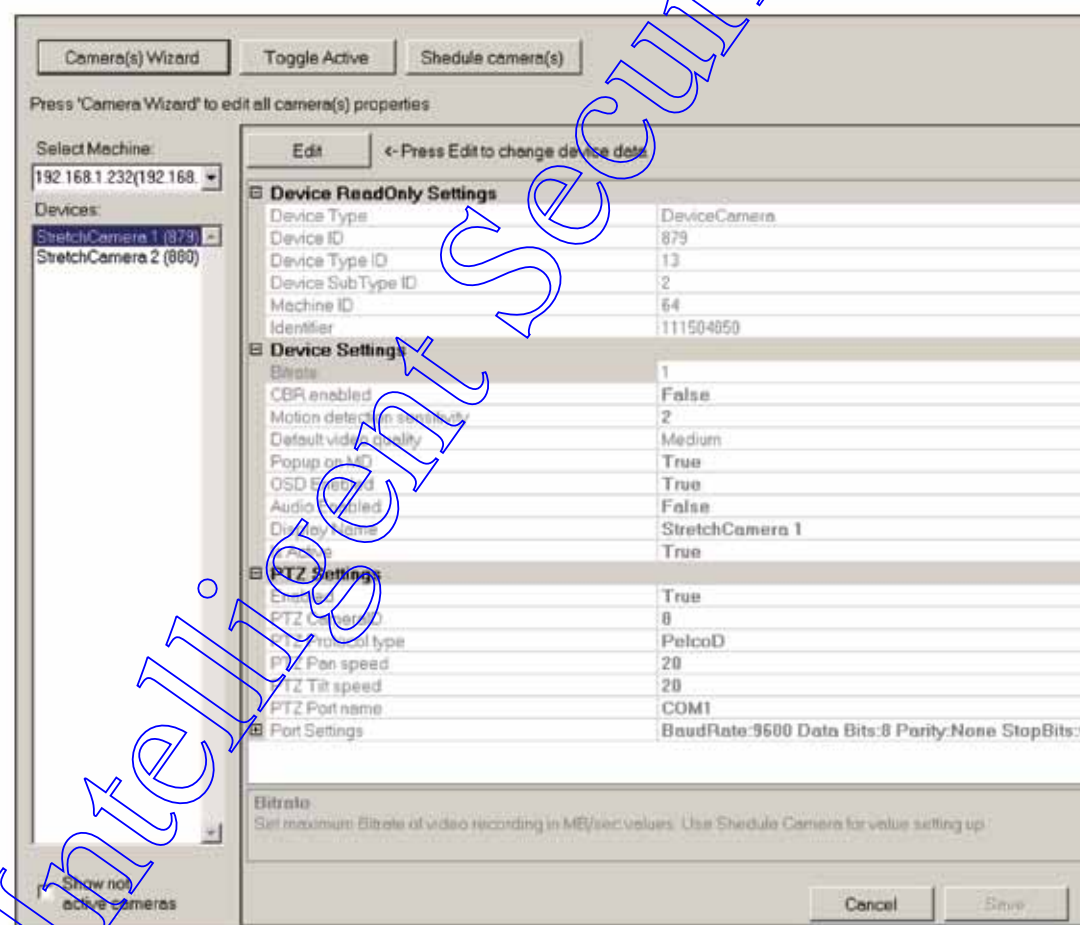
Card Camera	Compression card camera
Panoramic Camera	Allows the user to create panoramic previews from images from two cameras
TimeLapse Camera	Saves frames at a predetermined time interval creating a TimeLapse movie.
IP Camera	IP camera setup

Card Cameras

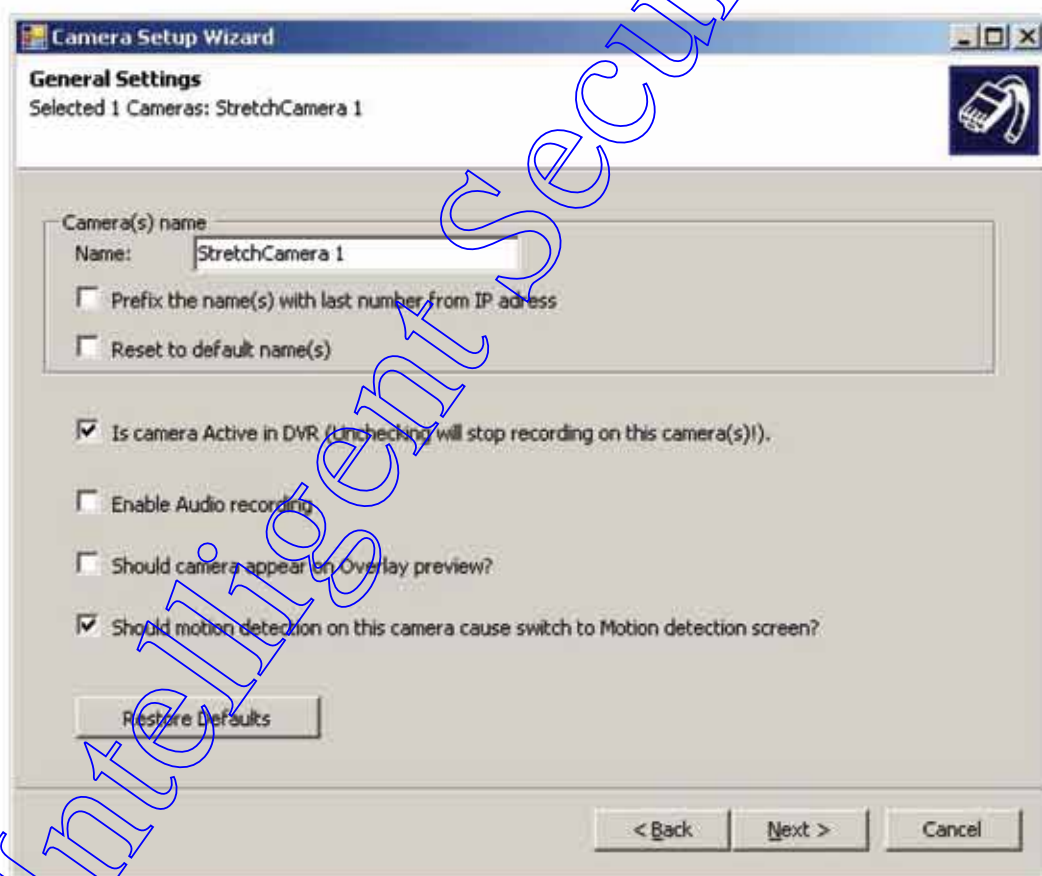
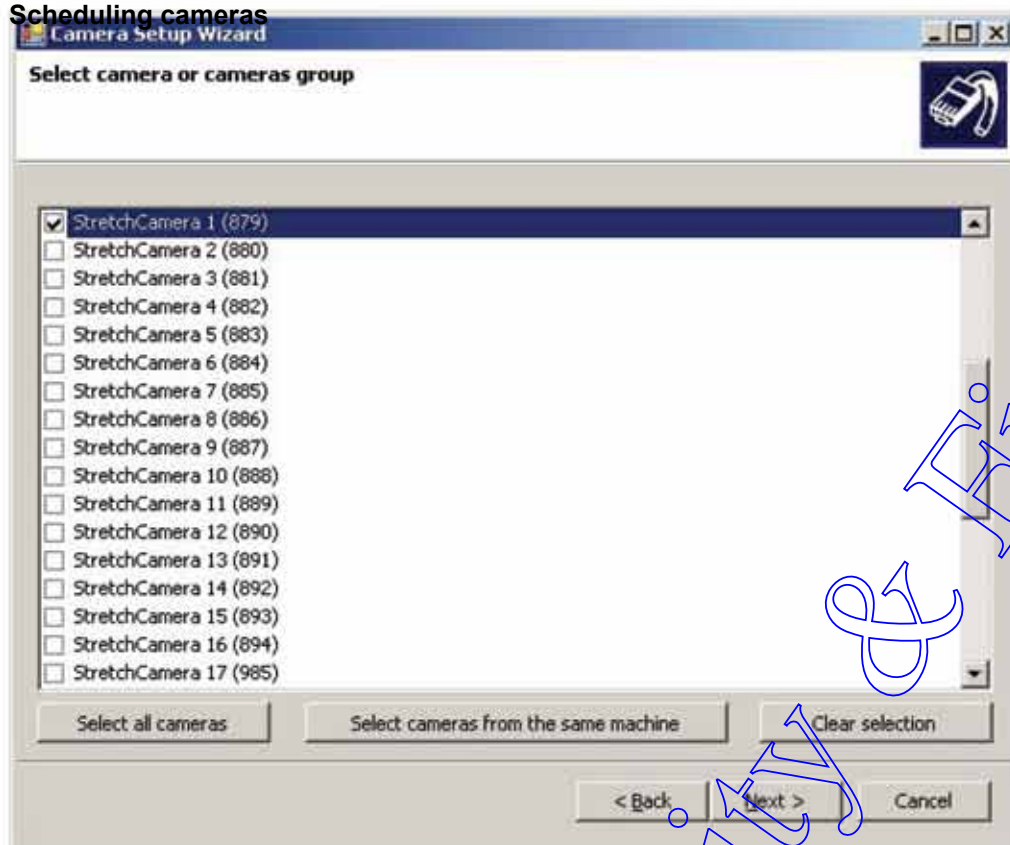
To setup camera properties use the Camera Wizard Button. For editing a single camera the properties panel can be used.

Each camera must be scheduled to record footage. See camera scheduling chapter for details.

Camera wizard



Scheduling cameras



Camera Setup Wizard

Recording and Motion detection sensitivity settings

Selected 1 Cameras: StretchCamera 1

☐ Edit recording bitrate

☒ Variable Bitrate recording (allows optimization of disk space but uses more computing power)

☐ Constant Bitrate recording (more uniform compression, but more disk space used)

Motion detection sensitivity: (Higher value means less sensitive)

Restore Defaults

< Back Next > Cancel

Camera Setup Wizard

On Screen Display (OSD) settings

Selected 1 Cameras: StretchCamera 1

☒ Enable OSD

Line 1

Edit a free text or insert predefined tags

Date only
TimeOnly
Date and Time

Line 2

Edit a free text or insert predefined tags

Camera Name

Restore Defaults

< Back Next > Cancel

Camera Setup Wizard

PTZ settings
Selected 1 Cameras: StretchCamera 1

☒ Is PTZ enabled?

Protocol Settings

PTZ ID	8	Pan speed	20
Protocol name	PelcoD	Tilt Speed	20

Serial Port settings

Serial Port Name	COM1	Data bits	8
Baud rate	9600	Stop bits	One
		Parity	None

Restore Defaults

< Back Next > Cancel

Camera Setup Wizard

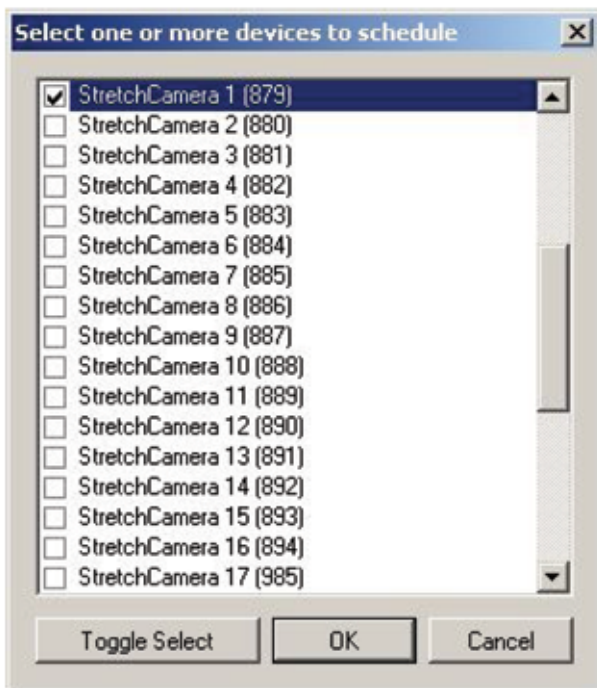
Completing the Camera settings Wizard

This wizard completed gathering the data for StretchCamera 1.
Please review parameters and accept or press 'Back' button to ammend the data

Camera name - StretchCamera 1
Camera is active
Audio recording is DISABLED
Camera will NOT appear in Overlay mode
Motion detection on this camera will switch to motion detection screen
Camera will record in VARIABLE bit rate
Motion detection sensitivity is set to value of 2
OSD is enabled showing '<DateTime>' in the first line, and '<CameraName>' in the second line
PTZ is enabled

< Back Finish Cancel

To setup the ability to schedual camera recording, the user must introduce recording parameters. Press the "Schedule Camera" button and select the cameras for scheduling.



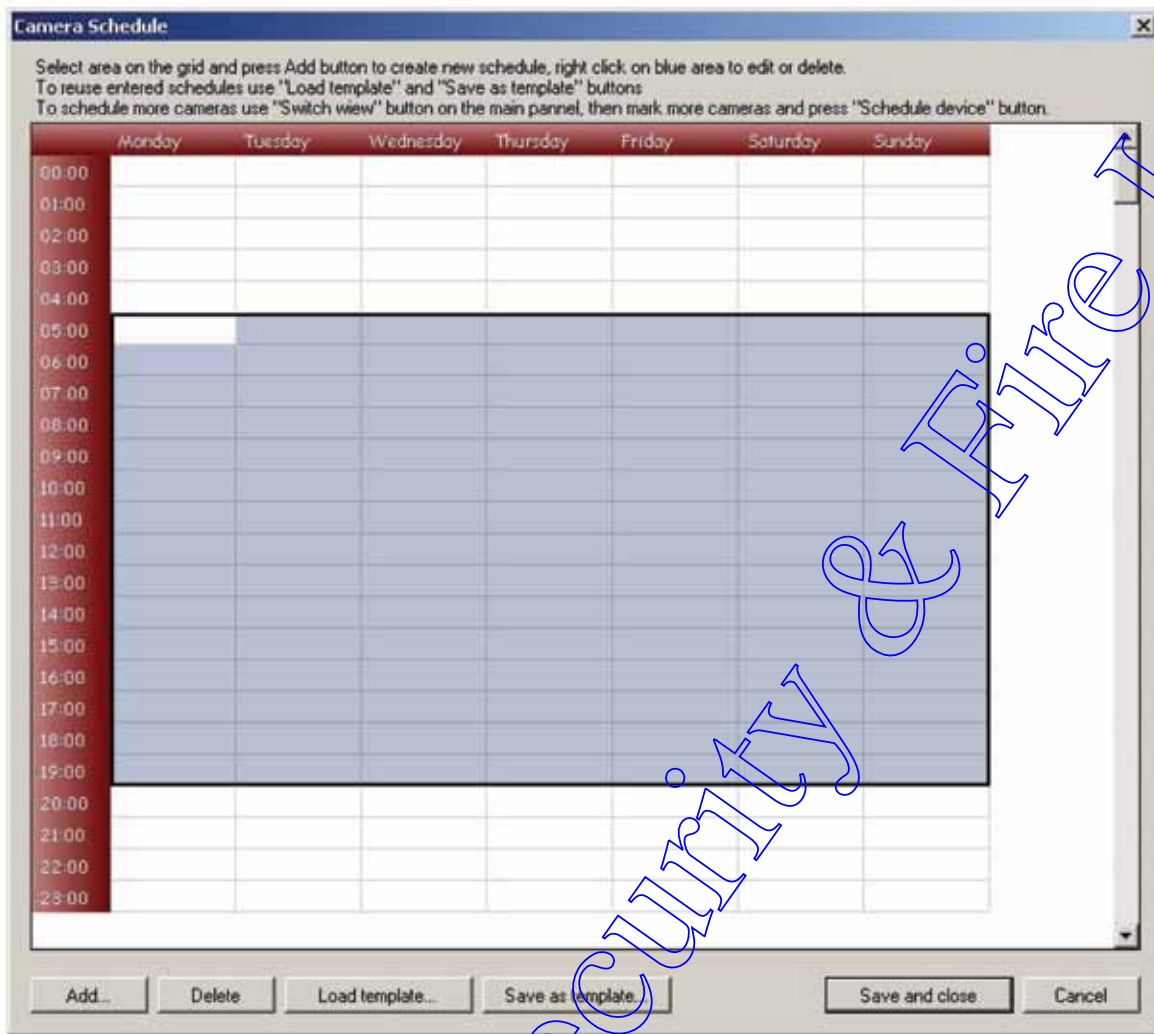
When selecting single cameras the user can see a picture like the one shown below.

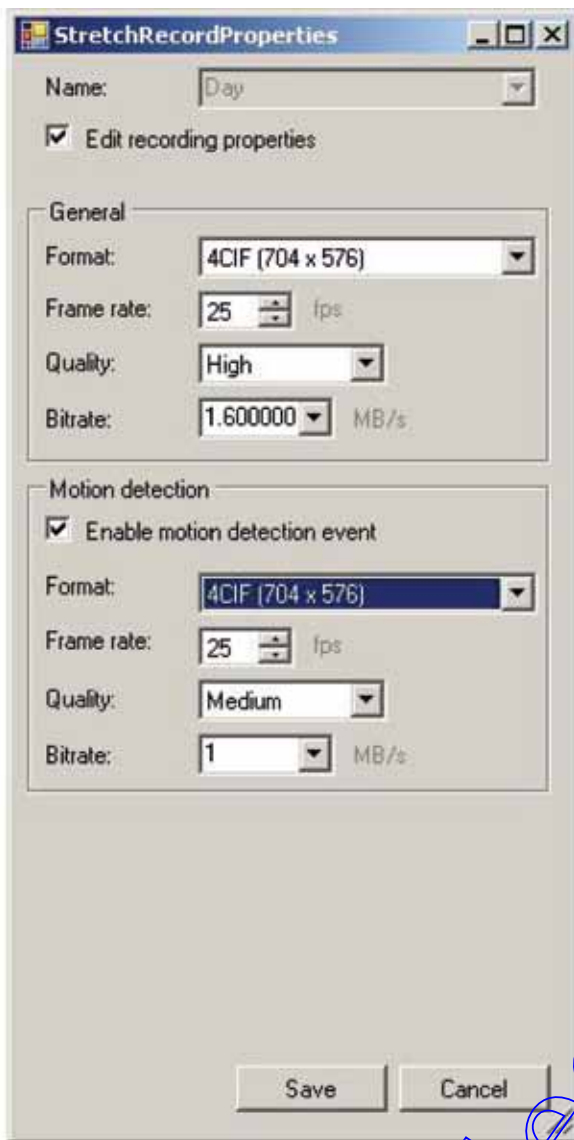


A properly scheduled camera must have the entire area coloured in a blue colour.

When the user selects more than one camera, this form will show empty scheduling even all of them have the same schedule.

Mark the desired time span by dragging the mouse across the area in the grid. It is possible to mark any area of time and as many areas as it is necessary. The cameras will not record on unmarked areas.





StretchRecordProperties

Name: Day

☒ Edit recording properties

General

Format: 4CIF (704 x 576)

Frame rate: 25 fps

Quality: High

Bitrate: 1.600000 MB/s

Motion detection

☒ Enable motion detection event

Format: 4CIF (704 x 576)

Frame rate: 25 fps

Quality: Medium

Bitrate: 1 MB/s

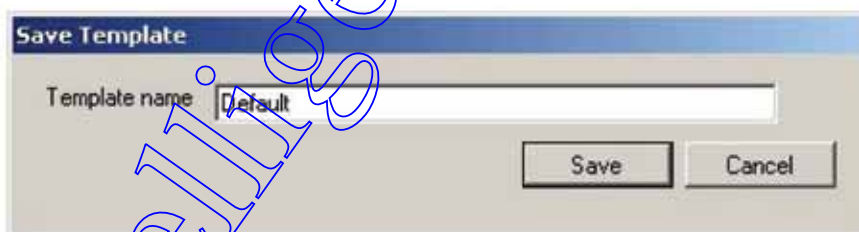
Save Cancel

Press the Add button.

Select the Format and enter your Name and other recording parameters and press the OK button. If you select 4CIF resolution on two channels then the other channels must not be scheduled or disabled. When a marked area does not cover the entire week, the user can add another area and set different recording parameters.

To use other cameras with the same settings the user can save entered settings as a template by pressing the Save as template button.

To load saved schedules press the Load template button



Save Template

Template name: Default

Save Cancel



Load Template

Template name: Default

Load Cancel

Panoramic cameras

The Panoramic Camera allows a live preview of two cameras on a single preview port. It is useful for surveillance of wide areas like car parks or large shopping malls.

It allows the user of the standard cameras to get a preview similar to a megapixel camera.

Warning for Professional configuration: The Panoramic Camera is treated as a standard camera, so it is counted in the licensed cameras. If all card cameras are selected as active then your license will not allow you to start the Panoramic camera.

The screenshot shows the 'Add Device' configuration window for a Panoramic camera. The window has a title bar with 'Add Device', 'Toggle Active', and 'Delete Device' buttons. Below the title bar, there is a message: 'Press 'Add device' to create new Panoramic camera.' The 'Select Machine:' dropdown is set to '192.168.1.232(192.168.1.232)'. The 'Devices:' list on the left shows 'MultiCamera 1 (Cam1)'. The main configuration area is divided into several sections: 'Device ReadOnly Settings' (Device Type, Device ID, Device Type ID, Device SubType ID, Machine ID, Identifier), 'Device Settings' (Display Name, Is Active), 'MultiCamera Settings' (Camera 1 (left), Camera 2 (right), PTZ Enabled), and 'Różne' (CommonLines, CommonPoints). The 'Camera 1 (left)' and 'Camera 2 (right)' fields are set to 'StretchCamera 1' and 'StretchCamera 2' respectively. The 'PTZ Enabled' checkbox is unchecked. The 'CommonLines' and 'CommonPoints' fields are set to '(Kolekcja)'. At the bottom, there is a 'Show not active cameras' checkbox and 'Cancel' and 'Save' buttons.

Device ReadOnly Settings	
Device Type	Device Type
Device ID	1009
Device Type ID	22
Device SubType ID	5
Machine ID	64
Identifier	894be3d-2869-44b4-a31e-ff55b614f7ec

Device Settings	
Display Name	MultiCamera 1
Is Active	True

MultiCamera Settings	
Camera 1 (left)	Name: StretchCamera 1
Camera 2 (right)	Name: StretchCamera 2
PTZ Enabled	False

Różne	
CommonLines	(Kolekcja)
CommonPoints	(Kolekcja)

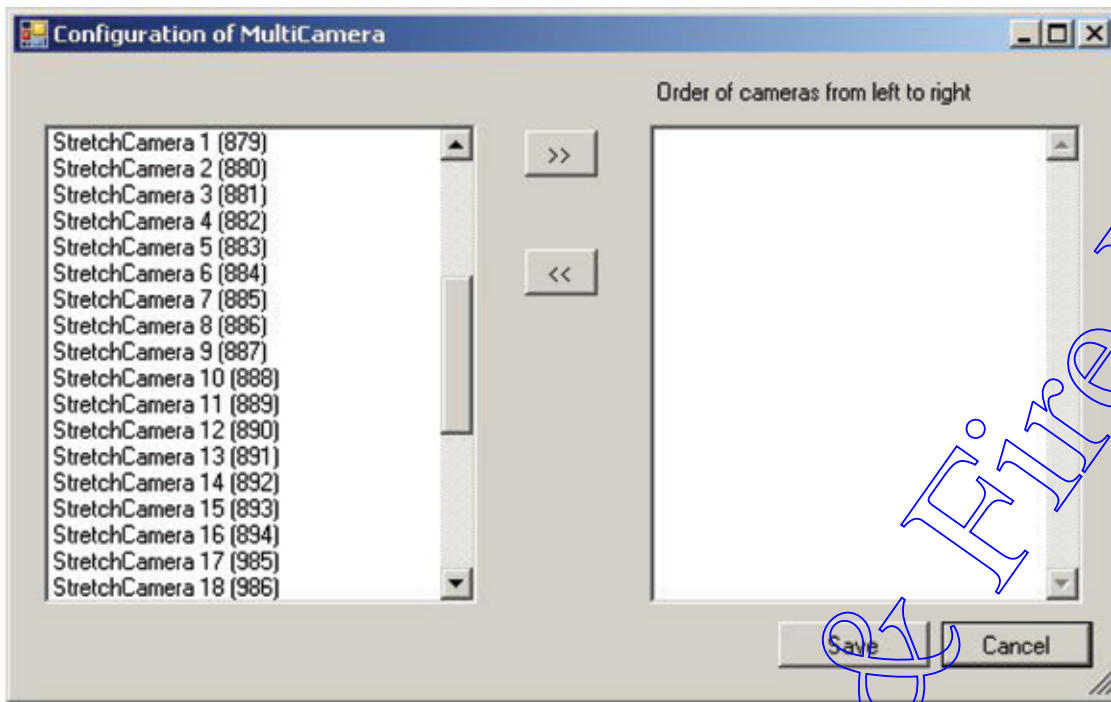
Camera 1 (left)
Camera 2 (right)
Cameras used for MultiCamera view

☐ Show not active cameras

Cancel Save

To create a new Panoramic Camera press Add Device and select the cameras to be used for the panoramic view.

All other parameters for "gluing" view can be set in Client.



Time Lapse camera

The Time lapse camera allows the user to preview an site over a period of time. It can be used to view long lasting changes like:

- a whole shift preview in a short period of time
- an entire working day previewed in a short period of time
- to observe people and crowd interaction
- growing and decaying of plants
- construction of buildings and other large structures
- and more ...

Press 'Add device' to create new Panoramic camera

Select Machine: 192.168.1.232(192.168.1.232)

Devices:

- TimeLapCamera 1 205
- TimeLapCamera 2 1M
- TimeLapCamera 3 3m
- TimeLapCamera 4 5m
- TimeLapseCamera 1
- TimeLapseCamera 1

☐ Show not active cameras

<- Press Edit to change device data

Device ReadOnly Settings	
Device Type	None
Device ID	947
Device Type ID	25
Device SubType ID	6
Machine ID	64
Identifier	d83c5d1-722d-456c-ae2c-f1846abeb7dc

Device Settings	
Display Name	TimeLapseCamera 1
Is Active	True

Time Lap Camera Settings	
Recording camera name	Name:
Work Days Only	False
Time From	08:00:00
Time To	08:00:00
Time Lap	00:01:00
Valid From	2011-10-14 10:06
Valid To	2031-10-14 10:06
PTZ Enabled	False

Recording camera name
Cameras used for Time Lap Camera view

Set the same time for Time From and Time To to get 24h recording.

Time Lapse value describes the time between each recorded frame. The minimum value is 15 sec. A value of 1 minute gives about a 30 sec overview of an 8 hours working day.

You can setup multiple TimeLapse cameras on one physical (card) camera.

IP Camera

IP camera settings cannot be edit in this version

Devices Configuration

There are two types of devices that can be configured:

- IO Box
- Message Viewer

IO Box

After selecting a new sensor on the list its properties will be displayed on the right side of the Configuration window.

The IO Box can be configured using the Wizard.

Common properties:

- BaudRate – the speed of the serial data transition with the sensor.
- Display Name – the name of the sensor displayed in the system.
- Enabled Sensor Mask – a bit mask which describes which inputs' states are of interest to us. 1 means the input is valid
- Hardware Device ID – sensor's hardware identifier. This value must be equal to the identifier set on the sensor with ID switches
- PortName – choice of a serial port number which the sensor is connected to
- Proper Status Mask – currently not used. Following properties are read only

Each input can be named and set its proper state.

Outputs of IO Box can be configured as:

switch on	After one change request it keeps its state until it is manually reset	Can be used for e.g switching on the lighting on a gate or a fence
toggled	After each change request, the output changes its state to opposite	Can be used for allowing or disallowing the next gate.
mono-stable	Each change sets its state as active for a certain amount of time and then returns to the base state. Each change request in the active state extends the active state time.	Can be used for switching on an engine for lock. E.g. when is connected with key pressing (by rule, see samples for rules).

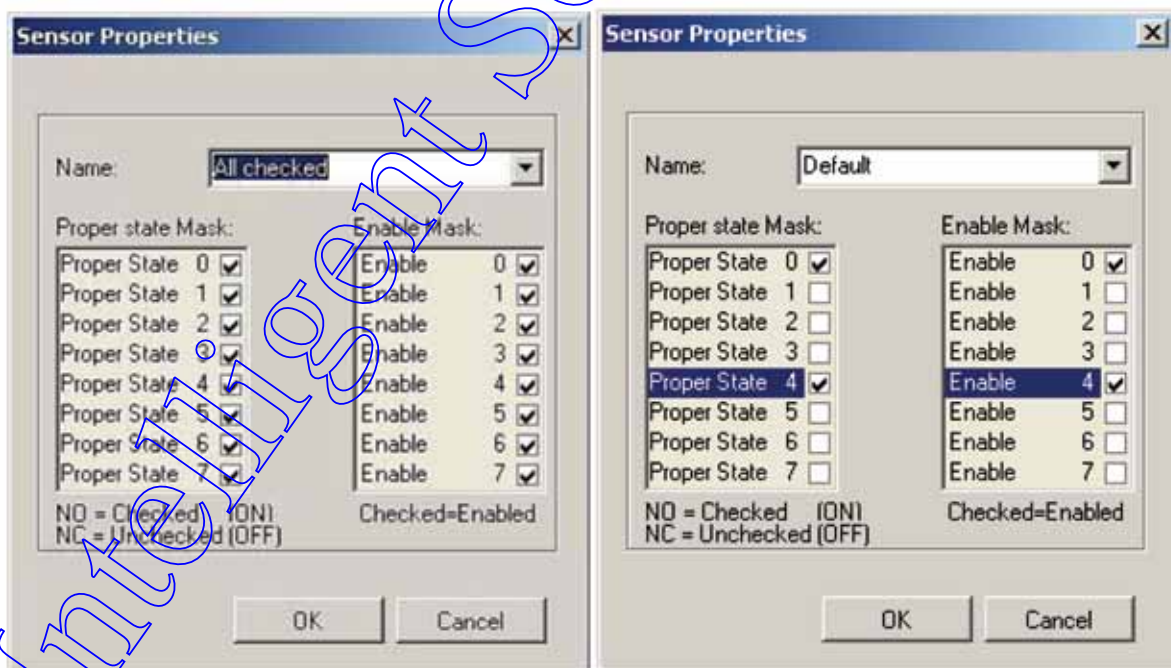
Warning:

You should be aware that adding information about the sensor does not mean that it is physically connected to the Machine.

In other words, it is possible to add information about the sensor to the Machine that does not have any sensor input.

In this case, this sensor becomes visible in Client. (It is even possible to preview it on a viewport but the only thing we will achieve is a constantly visible announcement "Connection Lost".)

Scheduling of sensors



One can schedule sensors to be active by entering a schedule.
 The proper state means the standard position with the alarm off.
 Checked value means NO (normally open).
 Unchecked means NC (normally closed).

In the same way as for cameras we can save and load templates for sensor schedules

Save Template

Template name:

Load Template

Template name:

Sensor schedule

The Sensor Wizard allows full sensor configuration.

The first screen allows us to select one or more sensors. When one sensor is selected the next page shows the sensor inputs configuration.

SensorWizard
Sensor Inputs Settings
 Selected 1 Sensors: Sensor 2

Select the name, proper state of each input and its enable mask.
 These settings will be used only when no schedule will be set for this sensor(s).

Input Name	Proper state Mask:	Enable Mask:
Back Door	Proper State 0 <input type="checkbox"/>	Enable 0 <input checked="" type="checkbox"/>
Alarm 1	Proper State 1 <input type="checkbox"/>	Enable 1 <input checked="" type="checkbox"/>
Alarm 2	Proper State 2 <input type="checkbox"/>	Enable 2 <input checked="" type="checkbox"/>
Alarm 3	Proper State 3 <input type="checkbox"/>	Enable 3 <input checked="" type="checkbox"/>
Alarm 4	Proper State 4 <input type="checkbox"/>	Enable 4 <input checked="" type="checkbox"/>
Alarm 5	Proper State 5 <input type="checkbox"/>	Enable 5 <input checked="" type="checkbox"/>
Alarm 6	Proper State 6 <input type="checkbox"/>	Enable 6 <input checked="" type="checkbox"/>
Alarm 7	Proper State 7 <input type="checkbox"/>	Enable 7 <input checked="" type="checkbox"/>

Double click to edit Name

☒

☐

The user can set the name, the proper state and enable parameters.
 The name will be shown on the Client program and reports.

The next page shows the sensor output configuration.
Again the user can set the name, the normal state and other parameters.

SensorWizard
Sensor Outputs Settings
Selected 1 Sensors: Sensor 2

Select the name, normal state, type of output.
When Monostable type is selected, do not forget to set the timeout.

Name	Normal State	Type	Time Out[ms]
Upper Light	Normal State 0	Once set (can be reset only manually)	0
Output 1	Normal State 1	Once set (can be reset only manually)	0
Output 2	Normal State 2	Once set (can be reset only manually)	0
Output 3	Normal State 3	Once set (can be reset only manually)	0
Output 4	Normal State 4	Once set (can be reset only manually)	0
Output 5	Normal State 5	Once set (can be reset only manually)	0
Output 6	Normal State 6	Once set (can be reset only manually)	0
Output 7	Normal State 7	Once set (can be reset only manually)	0

Double click to edit Name

☐ NC - normally closed
☒ NO - normally open

Once set = never get back after set unless reseted.
Bistable = get opposite at every event
Monostable = automatically get back after certain time

Double click to edit TimeOut. TimeOut is in milliseconds (1/1000 sec)

< Back Next > Cancel

The output type can be set to one of three options:

- once set (when set, a return to the normal state can be done only by resetting the input in Client)
- bi-stable (this is a toggling output, each time it is set it will change its state to the opposite)
- mono-stable (each change request will change the state to the not normal state for an entered period of time, the next change of state request will just extend the time of the current state)

SensorWizard

Sensor Outputs Settings
Selected 1 Sensors: Sensor 2

Select the name, normal state, type of output.
When Monostable type is selected, do not forget to set the timeout.

Name	Normal State	Type	Time Out[ms]
Upper Light	Normal State 0 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 1	Normal State 1 <input type="checkbox"/>	<select output type>	0
Output 2	Normal State 2 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 3	Normal State 3 <input type="checkbox"/>	Bi-stable (each event changes state)	0
Output 4	Normal State 4 <input type="checkbox"/>	Monostable (delayed return to normal)	0
Output 5	Normal State 5 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 6	Normal State 6 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 7	Normal State 7 <input type="checkbox"/>	Once set (can be reset only manually)	0

Double click to edit Name

☐ NC - normally closed
☒ NO - normally open

Once set = never get back after set unless reseted.
Bi-stable = get opposite at every event
Monostable = automatically get back after certain time

Double click to edit TimeOut.
TimeOut is in milliseconds (1/1000 sec)

< Back Next > Cancel

SensorWizard

Sensor Outputs Settings
Selected 1 Sensors: Sensor 2

Select the name, normal state, type of output.
When Monostable type is selected, do not forget to set the timeout.

Name	Normal State	Type	Time Out[ms]
Upper Light	Normal State 0 <input type="checkbox"/>	Monostable (delayed return to normal)	3000
Output 1	Normal State 1 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 2	Normal State 2 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 3	Normal State 3 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 4	Normal State 4 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 5	Normal State 5 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 6	Normal State 6 <input type="checkbox"/>	Once set (can be reset only manually)	0
Output 7	Normal State 7 <input type="checkbox"/>	Once set (can be reset only manually)	0

Double click to edit Name

☐ NC - normally closed
☒ NO - normally open

Once set = never get back after set unless reseted.
Bi-stable = get opposite at every event
Monostable = automatically get back after certain time

Double click to edit TimeOut.
TimeOut is in milliseconds (1/1000 sec)

< Back Next > Cancel

SensorWizard

Title
Selected 1 Sensors: Sensor 2

Sensor ID: 55

☒ Edit Serial Port settings

Serial Port Name: COM2

Baud rate: 9600

Data bits: 8

Stop bits: One

Parity: None

Restore Defaults

< Back Next > Cancel

The above page sets the sensor parameters such as the hardware id and the communication port.

The page below summarized the changes made. Read them carefully before accepting.

SensorWizard

Completing the Sensor Configuration Wizard

This wizard completed gathering the data for Sensor 2.
Please review parameters and accept or press 'Back' button to ammend the data

Sensor name - Sensor 2
Sensor is active

Sensor Inputs:

- 0 Back Door is ENABLED and is Normaly Closed (NC)
- 1 Alarm 1 is ENABLED and is Normaly Closed (NC)
- 2 Alarm 2 is ENABLED and is Normaly Closed (NC)
- 4 Alarm 3 is ENABLED and is Normaly Closed (NC)
- 4 Alarm 4 is ENABLED and is Normaly Closed (NC)
- 5 Alarm 5 is ENABLED and is Normaly Closed (NC)
- 6 Alarm 6 is ENABLED and is Normaly Closed (NC)
- 7 Alarm 7 is ENABLED and is Normaly Closed (NC)

Sensor Outputs:

- 0 Upper Light and is Normaly Closed (NC) Type = Mono-stable Time = 3000
- 1 Output 1 and is Normaly Closed (NC) Type = Once set Time = 0
- 2 Output 2 and is Normaly Closed (NC) Type = Once set Time = 0
- 3 Output 3 and is Normaly Closed (NC) Type = Once set Time = 0
- 4 Output 4 and is Normaly Closed (NC) Type = Once set Time = 0
- 5 Output 5 and is Normaly Closed (NC) Type = Once set Time = 0
- 6 Output 6 and is Normaly Closed (NC) Type = Once set Time = 0
- 7 Output 7 and is Normaly Closed (NC) Type = Once set Time = 0

Sensor ID id is 55
Serial Port Name is COM2
Serial port baudrate is 9600

< Back Finish Cancel

Message viewer

The Message viewer is used to show on Client incoming messages.
Select the source devices and the message content type.

Users

User management in DVR is used to setup other user's roles and access permissions.

Role is the set of privileges that the user will be permitted.

The operating system users and DVR users are different and have a different way of checking and setting privileges.

Add User **Toggle Active** **Show Advanced**

Admin Administrator(administr...)
(user)
(advuser)
Piotr FFF(lum)
(aaa)
(zzz)
(ddd)
Shop (Shop)
(sss)

Login: * administrator
Password: *
Retype password: *
First name: * Admin
Last name: Administrator
Position:
E-mail address:
Phone number:
Mobile number:
Address:
Reports to: **Check**

Roles: *
☒ Administrator
☐ Engineer
☐ Executive
☐ Officer
☐ User
☐ Guest
☐ Shop user

☐ Show not Active Users

* - mandatory field

Cancel **Save**

Adding User

Press "Add user" button.

Because each user login to the system must be unique, after filling the mandatory fields (marked by a *) the user can check to see if all the fields are correctly filled. This can be done by pressing the "Check login" button.

Deleting Users

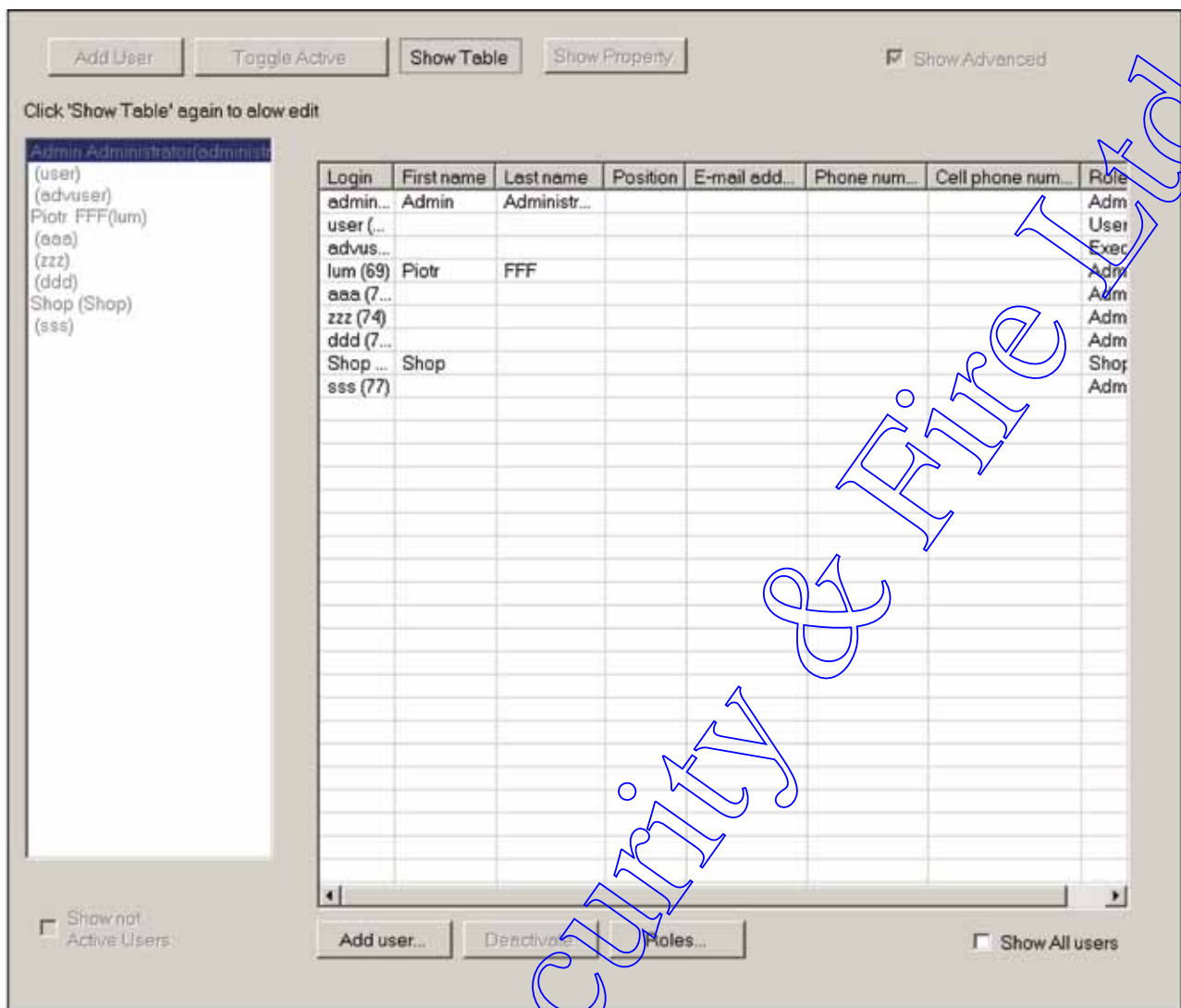
Users in the DVR cannot be deleted. This is because events are connected to the specific user. Deleting the user will cause loss of that information and loss of data.

It is possible, however, to make a user inactive, in this case all the data is stored but the user cannot enter into the system.

Marking the "All users" checkbox enables one to see all Inactive users.

Advanced options

Tick the advanced checkbox to see the advanced options



Advanced options

The Advanced options allows access to user maintenance and to user roles. Check the advanced checkbox to see advanced options



Pressing the Show Table button allows the administrator to get access to the advanced user maintenance.

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Add User Toggle Active Show Table Show Property Show Advanced

Click 'Show Table' again to allow edit

Admin Administrator(administr...
 (user)
 (advuser)
 Piotr FFF(lum)
 (aaa)
 (zzz)
 (ddd)
 Shop (Shop)
 (sss)

Login	First name	Last name	Position	E-mail add...	Phone num...	Cell phone num...	Role
admin...	Admin	Administr...					Adm
user (...)							User
advus...							Exec
lum (69)	Piotr	FFF					Adm
aaa (7...)							Adm
zzz (74)							Adm
ddd (7...)							Adm
Shop ...	Shop						Shop
sss (77)							Adm

Show not Active Users Add user... Deactivate Roles... Show All users

User roles

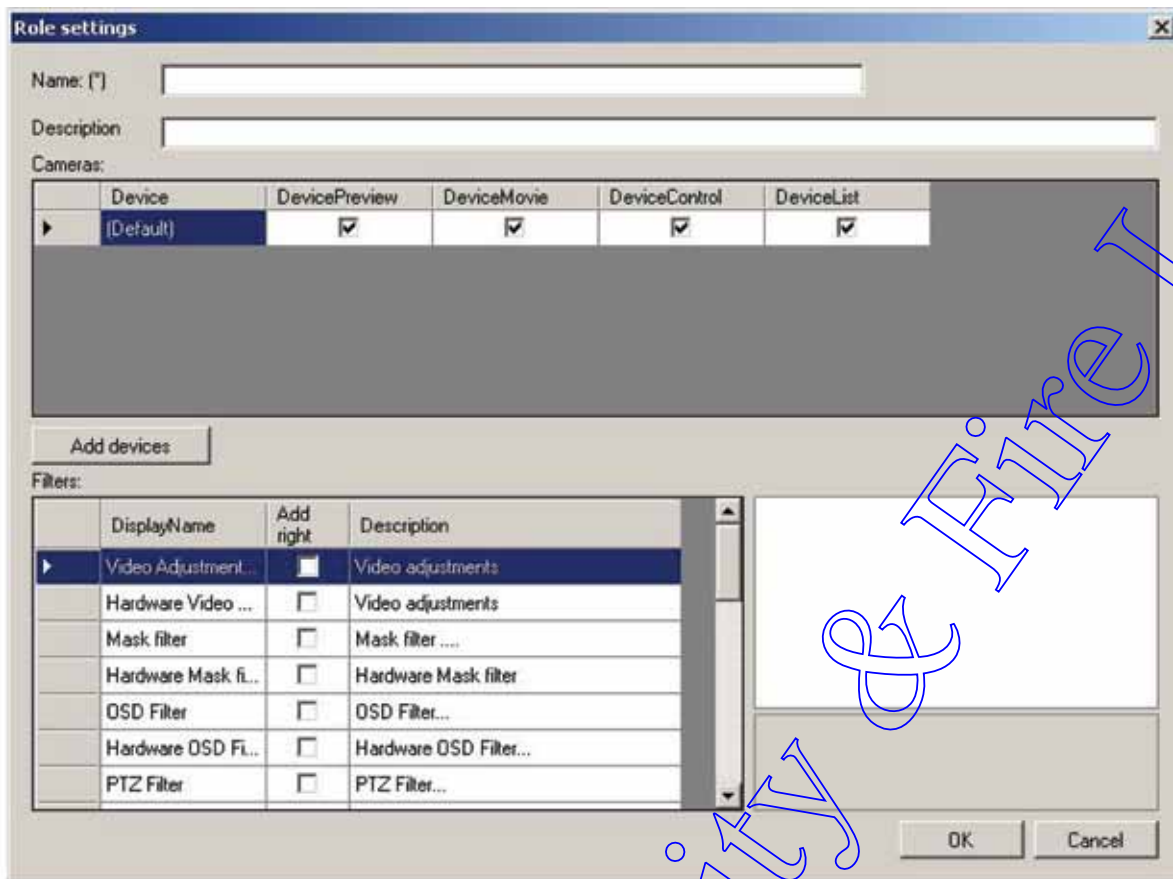
There are a few predefined roles in the system.

Each role describes the access to a particular camera, the actions that can be performed on that camera and access to filters for that camera.

The Administrator role has access to every resource in the system.

It is possible to create a new role with the limited access to any resource.

Press Create

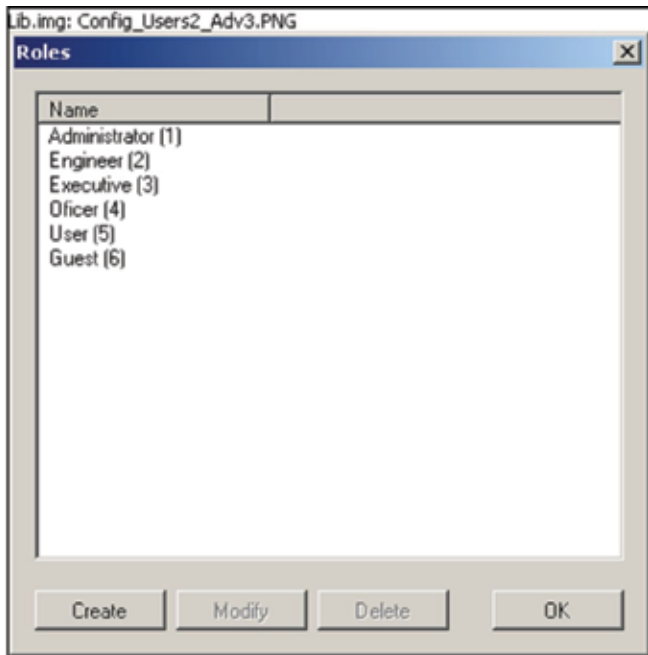


Entering a name for each role is mandatory.
There can be multiple camera access rights

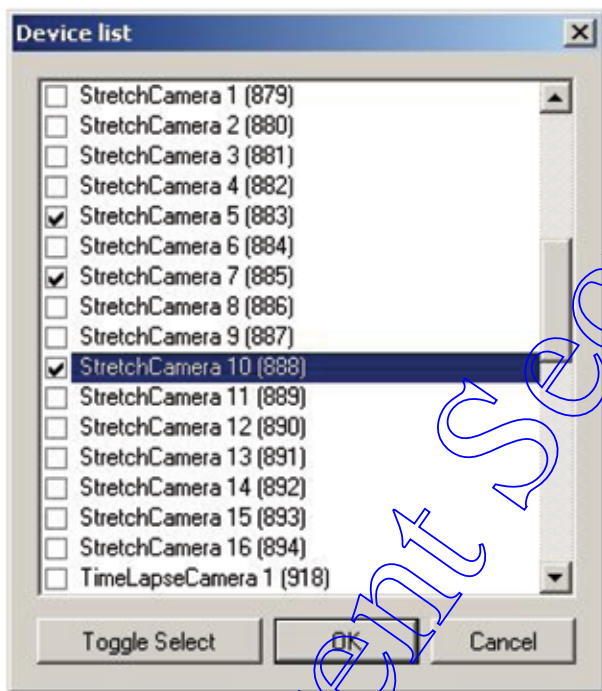
- See camera in the list of cameras – DeviceList
- Preview the current video stream – DevicePreview
- Playback the movie from the camera – DeviceMovie
- Change the recording properties and filters on the camera – DeviceControl

The same parameters can be set for any particular camera by using the “Add devices” button.
In the picture above, the role created disallows the user to see any camera except the three shown in the next lines.

After confirmation of the selection, the user can see the new role in the system.



Select the device(s) to which the user will have access.



Enter the role name and description.
 Select access type to devices.
 (Default) means all other devices.
 Column header click toggles checking.

Lib.img: Config_Users2_Adv6.PNG

Role settings

Name: (*)

Description:

Cameras:

	Device	DevicePreview	DeviceMovie	DeviceControl	DeviceList
	(Default)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	StretchCamera 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	StretchCamera 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	StretchCamera 6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	StretchCamera 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	StretchCamera 11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Filters:

- Add device(s)
- Set selected
- Clear slected
- Invert selected

After you save the file a new role appears.

Lib.img: Config_Users2_Adv7.PNG

Roles

Name
Administrator (1)
Engineer (2)
Executive (3)
Officer (4)
User (5)
Guest (6)
ShopUser (28)

Now the new User with new role can be introduced.

Lib.img: Config_Users2_Adv6.PNG

User settings

Login: *

Password: (*)

Retype password: (*)

First name: *

Last name:

Position:

E-mail address:

Phone number:

Mobile number:

Address:

Reports to:

Roles: *

- ☐ Administrator
- ☐ Engineer
- ☐ Executive
- ☐ Officer
- ☐ User
- ☐ Guest
- ☒ ShopUser

* - mandatory field

Lib.img: Config_Users2_Adv6.PNG

Machines

Cameras

I/O Devices

Users

E-Map

Advanced

About

Close

☐ Show Advanced

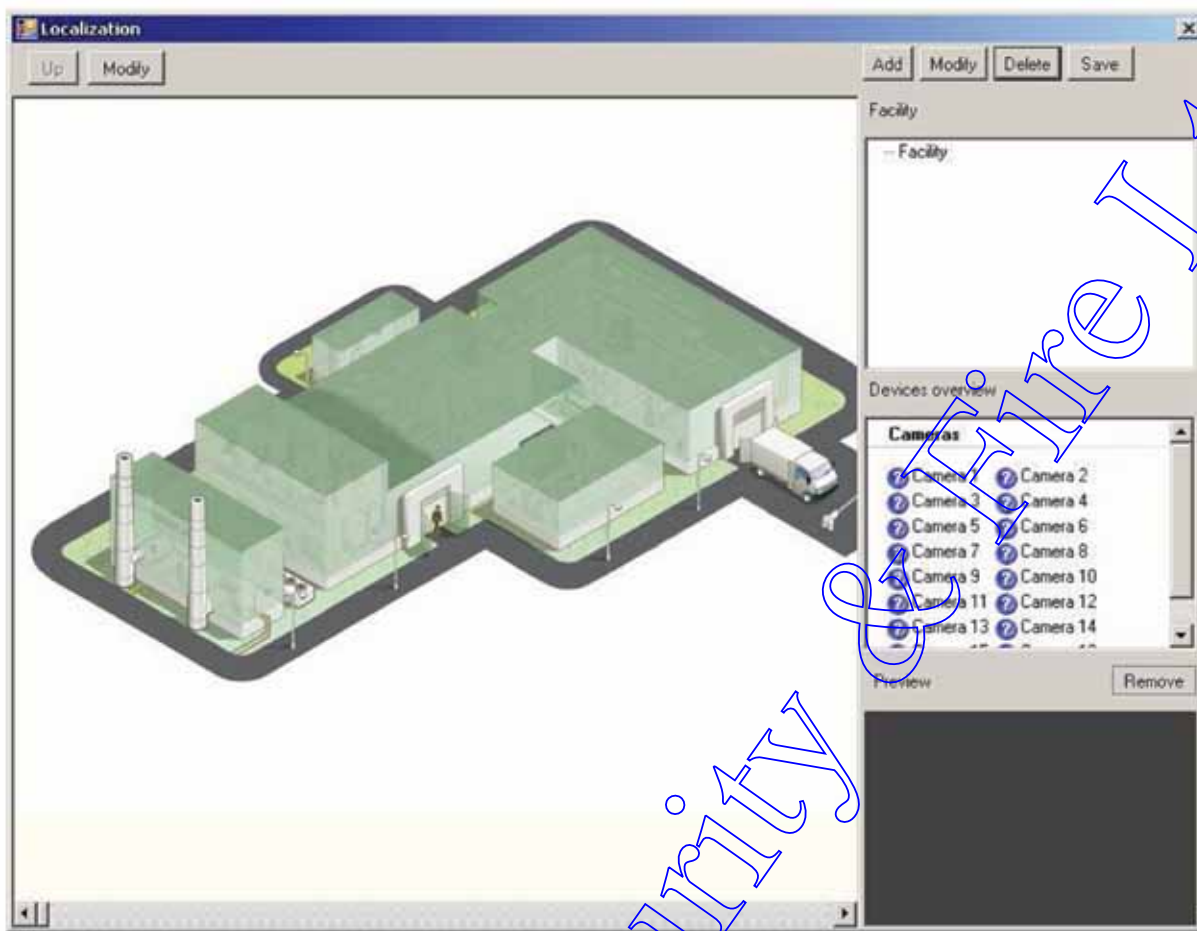
Click 'Show Table' again to show edit

Shop: with window: edit mode

Login	First name	Last name	Position	E-mail add.	Phone num.	Cell phone	Role
admin	Admin	Adminstr...					Admin
user (67)							User
adv (68)							Execu
lum (69)	Pict	FFF					Admin
ass (70)							Admin
zzz (74)							Admin
ddd (75)							Admin
Shop	Shop						Shop

☐ Show All users

E-map



To edit the Localization window, log-in as an administrator in the Configuration mode.

Press the Localization button to open the Localization window.

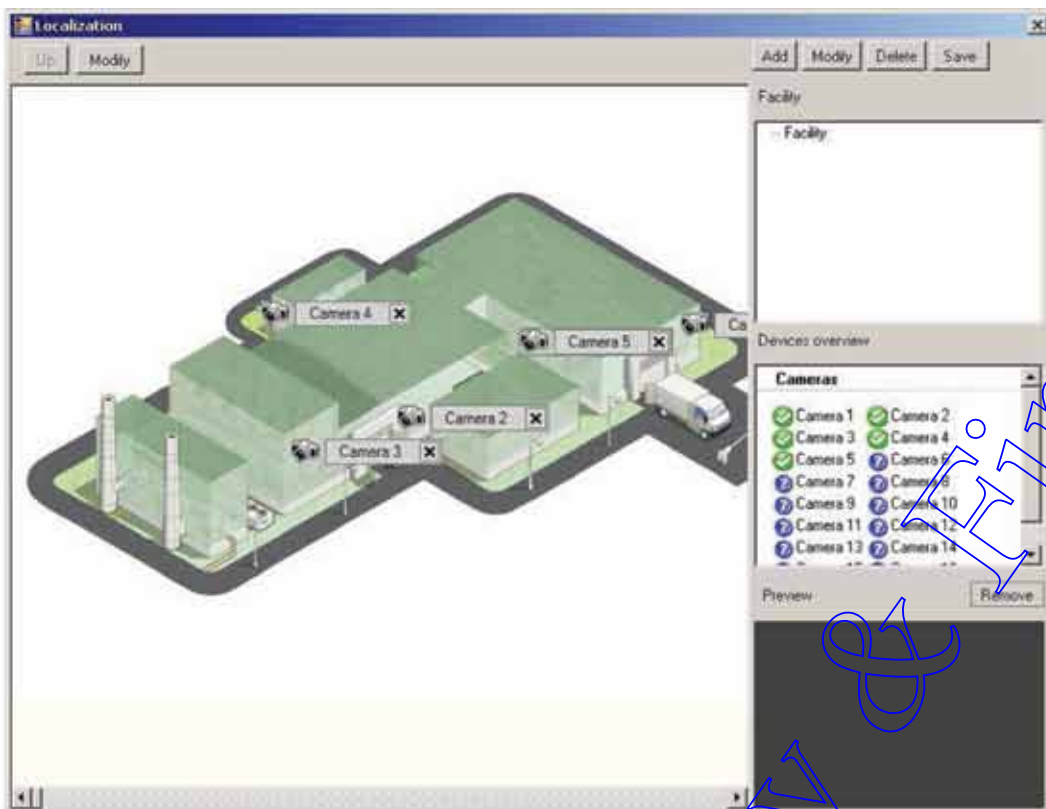
To change the settings and add a new plan, mark Facility option (in the Location overview window) and press the Modify button.

The Location Properties window appears – enter the name of the plan and browse the path of the proper general floor plan.

Graphics are located in C:\Program Files\Big Brat\DVR\Bin\GisData\Images folder.



If the cameras are situated outside the building, place them manually above the floor plan using the Drag & Drop option (drag the camera from the Cameras list in the Devices overview window and drop it in the appropriate position above the picture).



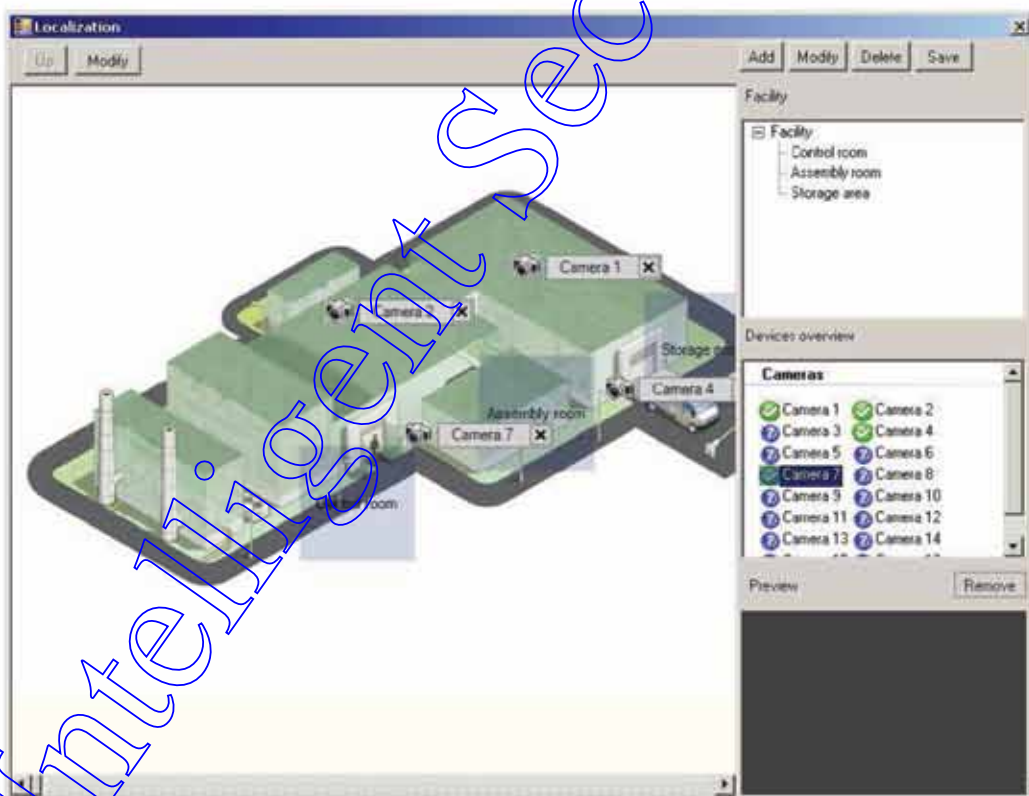
If the cameras are situated inside the building, the user can add detailed room-plans to place cameras in particular rooms.

To add the detailed room-plan press the Add button and fill the Localization Properties window.

The zoom area appears.

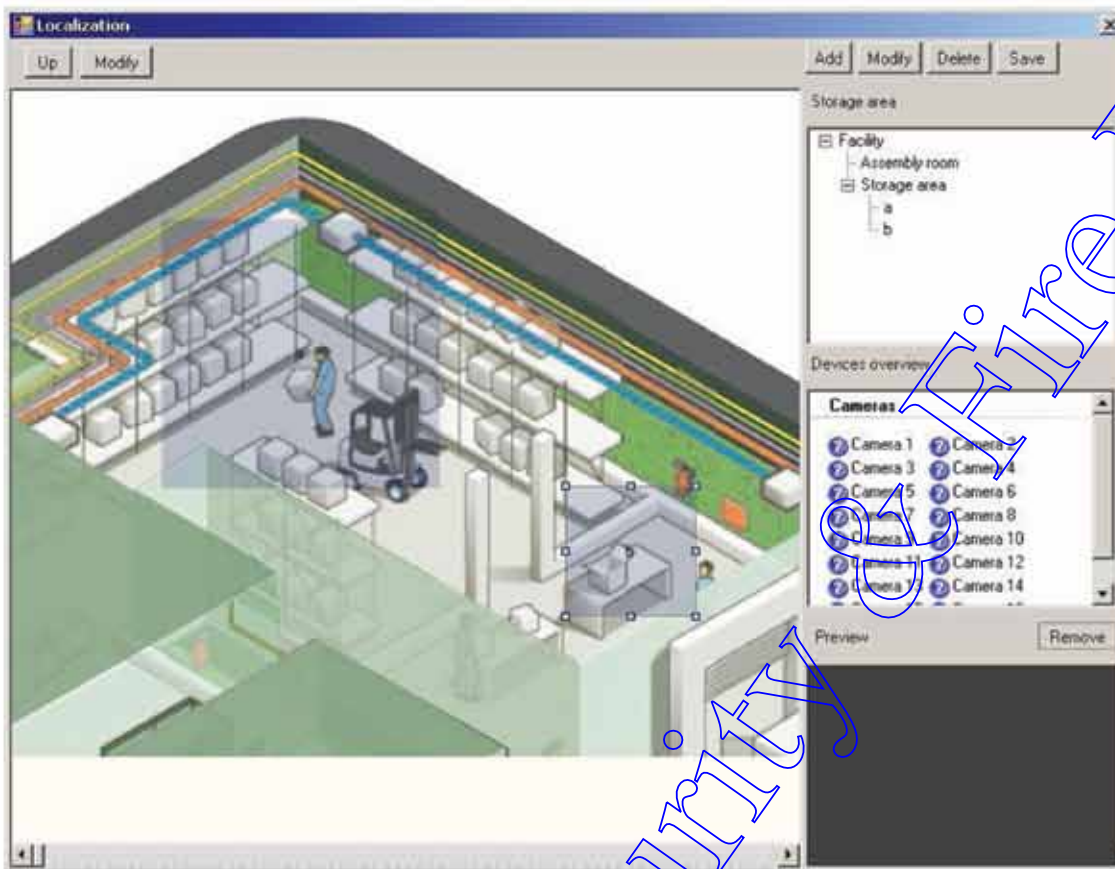
Put it in the correct position above the floor plan and double click to edit.

Place the cameras manually using the Drag & Drop option.



If the room area is too big, it can be divide it into the sub-plans.

To add a sub-plan mark the required room in the Location Overview tree, press the Add button and fill the Localization Properties window in and place cameras manually on the sub-plan using the Drag & Drop option.

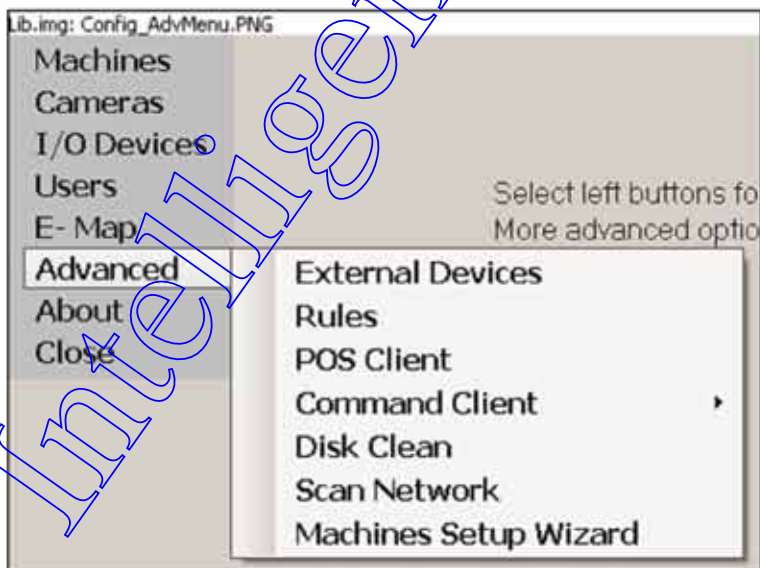


INFORMATION:

1. The device list is filled only when the Machine is running.
2. The image name of the root image cannot be changed (you can overwrite it with an image in the same format (PNG))

Advanced configuration

Advanced Menu



External Devices	Setup of External Devices
Rules	Powerful rules setup
POS Client	EPOS specific settings
Command	Command specific settings
Disk Clean	Setting up the disk clean utility
Scan network	Factory setup utility (do not run unless you are an experienced user)
Machines setup wizard	Factory setup utility (do not run unless you are an experienced user)

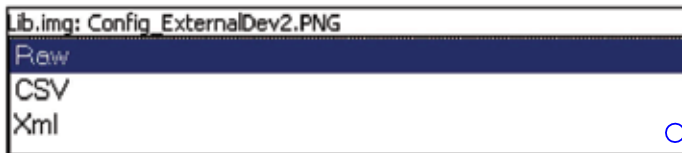
Input devices

Input devices can provide the DVR with input events that can be connected to footage or activate a change in DVR functionality.

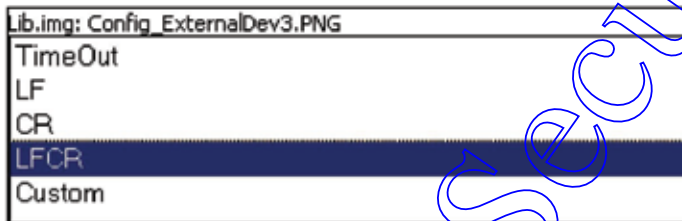
The following types of Input Devices are recognised by theDVR

- Network Port
- System Pipe
- Serial Port

All of these can send messages in following formats:



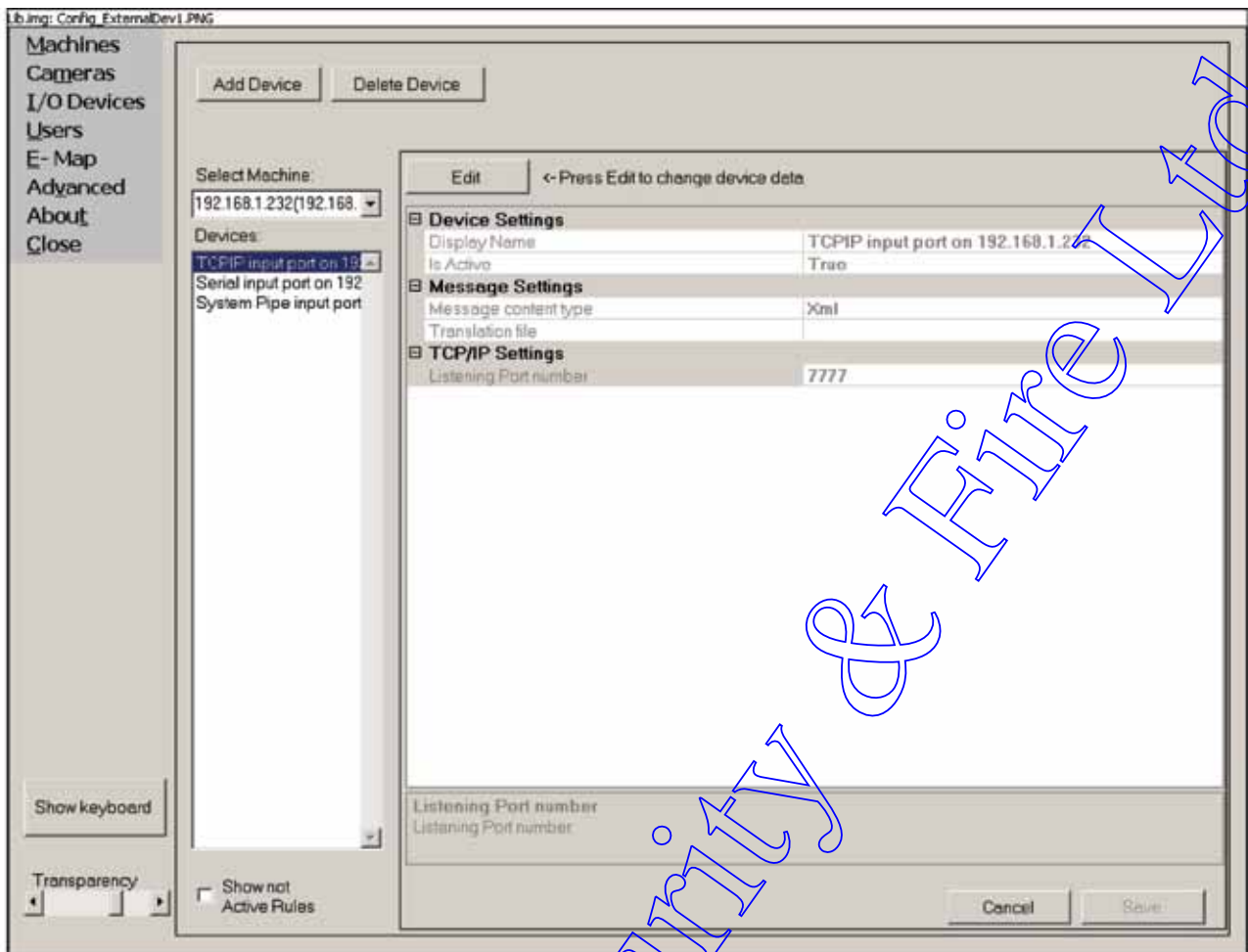
For serial port inputs the Administrator needs to set a way of recognising when a message is finished. There can be:



The content of each message has to be translated into a form that can be easy recognised. To do so a translation technology is applied.

The Administrator can prepare a CSV type file with translations.

These files can be read on Message Viewer or translated by a Barcode Reader or Fiscal Printer device.



Rules

Rules is a collection of two types of data:

- input events
- output actions

If one of the inputs events appears then all the linked output actions are performed

DVR can have an unlimited number of rules installed.

Each Input Event and Output Action has validity checking.

See **How To** section for rule samples

Input Events

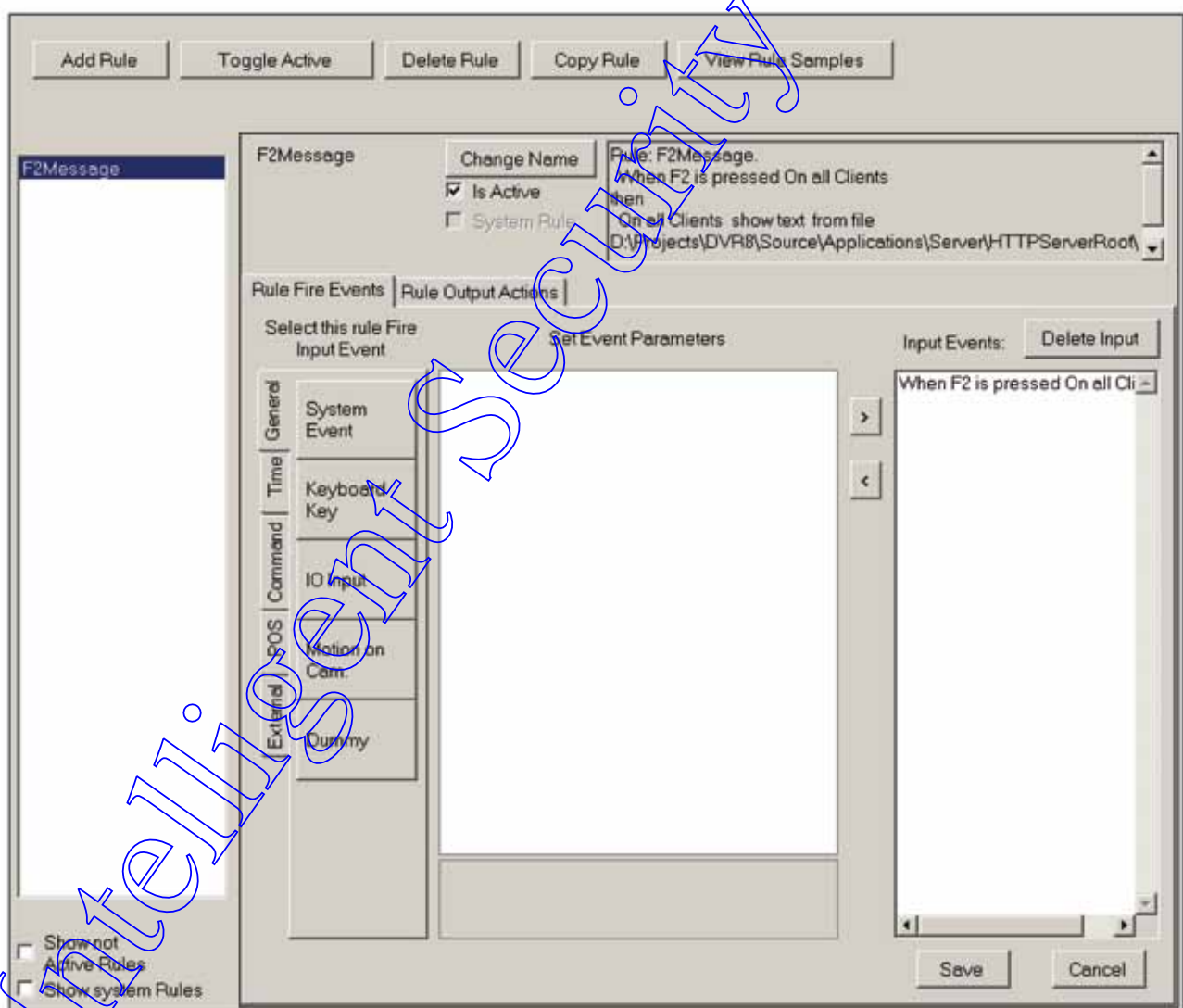
Event Type	Additional parameters	Description
System Events		
DUMMY_INPUT		Never checked
SYSTEM_EVENT	Start_DVR User_Login Invalid_License	When one of the system events appears
Gui Events		Events on Client. Additionally The IP settings are filtered
KEY_PRESSED	F2 - F12	When User press a function key
OPERATOR_NOT_PRESENT		User not available when they are requested by the machine to complete an action
PRIVATE_ISSUE		When the User Selects Private issue as an explanation as to why they not available (see above)

BUSSINESS_ISSUE		When user selects business issue
VISITOR_IN_OUT	Visitor Type : <ul style="list-style-type: none"> ● Employee ● Visitor ● Car Visitor Action: <ul style="list-style-type: none"> ● Enter ● Exit 	When a Visitor enters or exits
Hardware generated Events		Device and Machine need to be selected
IO_INPUT		When IO input Changes its state
MOTION_DETECTION		When (no)motion on camera detected
POS Events		
IN_MESSAGE		
BAR_CODE_READER	SCAN LOGIN LOGOUT	
FISCAL_PRINTER	BEGIN_RECEIPT, RECEIPT_ID, RECEIPT_ITEM, RECEIPT_TOTAL, CASH_IN, CHANGE, END_RECEIPT, RETURN, CANCEL_RECEIPT, CASHIER_LOGIN, CASHIER_LOGOUT	
On Specified Time		
CALENDAR		

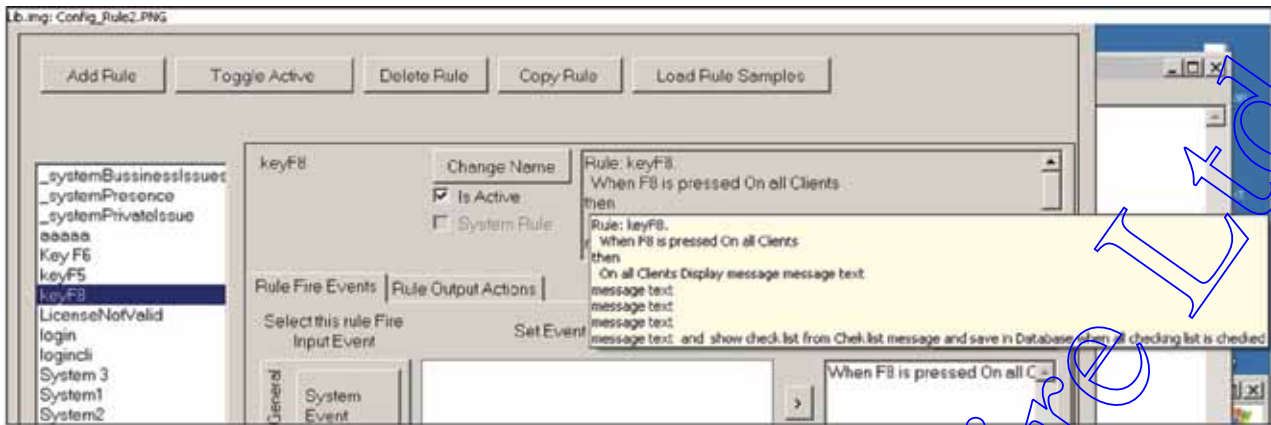
Output Actions

Action	Additional parameters	Description
DUMMY_OUT		Dummy action.
FIRE_RULE	rule name	Fires rule with entered name. If rule with this name does not exists does nothing. Artefacts collected with current rule are not passed to child rules and opposite.
IO_OUT	Output number	Sets Output in the IO Box. Output is set according to IO Box settings.
Camera actions		
PTZ_PRESET	preset number	Puts PTZ camera to previously set preset position. Be careful when this camera motion is checked as it can cause another rule to activate.
SET_CAMERA_SETTINGS	settings name	Changes camera settings (brightness saturation ...)
SET_CAMERA_FRAMERATE	framerate	Changes camera framerate
GET_CAMERA_SNAPSHOTS	number of snapshots and time	takes one or more snapshots from camera

GET_CAMERA_MOVIE		takes 30 sec movie from camera
SHOW_ON_CAMERA_TEXT	text	shows text on recorded movie
Client actions		
GUI_PRESENTATION		Shows text on Client
GUI_CHECKLIST		Shows check list on client
Send out message		
OUT_SERIAL		by serial port
OUT_PIPE		by system pipe
OUT_TCP_MESSAGE		by TCPIP
DLL_CALL	DLL name function name	Calls function from DLL
EMAIL	Email data server data	Sends email with artifacts
PRINT	printer name	Prints on printer
STOPWATCH		Starts stopwatch. Stopwatch can be stopped or restarted.
COUNTER		Starts counter.



Rule description can be read from description window or as a tooltip.



Adding a rule demands setting its unique name. The User can add separators like / or . (dot) in rule names to force an appropriate alphabetic order.



POS Client

POS client menu allows the setting up of two types of devices:

- Barcode reader
- Fiscal/receipt printer

Fiscal/Receipt printer

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Add Device Toggle Active Delete Device

Select Machine:
192.168.1.232(192.168.1.232)

Devices:
FiscalPrinter 1 (1006)

Show not active devices

FiscalPrinter Name: FiscalPrinter 1
Change Name Is Active

Embedding Camera: StretchCamera 1
Change Clear

Input Devices: ALL_FISCAL_EVENTS from TCP/IP on 192.168.1.232

Alarm Values: When ALL_FISCAL_EVENTS

Add Edit Copy Remove Add Edit Copy Remove

Save Cancel

Select Device

Select Machine

192.168.1.232(192.168.1.232)
192.168.1.20(192.168.1.20)
192.168.1.14(192.168.1.14)

Select Device

Serial port on 192.168.1.232(COM11) (1001)
Pipe on 192.168.1.232(PIPE111) (1002)
TCP/IP on 192.168.1.232(22222) (1003)
TCP/IP on 192.168.1.232(43333) (1004)

If device is not appearing on the devices list, you can add it by Advanced -> External Devices

OK Cancel

New Input

Device Settings

Communication Device Name: TCPIP on 192.168.1.232(22222)

Receipt line: ALL_FISCAL_EVENTS

Receipt line
Accepted receipt line

OK Cancel

☐ None

☒ BEGIN_RECEIPT

☒ RECEIPT_ID

☒ RECEIPT_ITEM

☒ RECEIPT_TOTAL

☒ CASH_IN

New Alarm

Alarm settings:

Receipt line: None

Receipt line Help: Open to get help

Alarm text:

Text File:

Min First Value: 0

Max First Value: 0

Min Second Value: 0

Max Second Value: 0

Receipt line
Receipt line type

OK Cancel

New Alarm

Alarm settings	
Receipt line	RECEIPT_TOTAL
Receipt line Help	Open to get help
Alarm text	
Text File	
Min First Value	150
Max First Value	0
Min Second Value	0
Max Second Value	0

Max First Value
If record contains valulues First Value maximal. Set max < min for excluding middle values

OK Cancel

There will be excluded values form 0,00 to 150,00

OK

Barcode reader

Add Device Toggle Active Delete Device

Select Machine:
192.168.1.232(192.168.1.232)

Devices:
BarcodeReader 1 (0)

BarcodeReader Name: BarcodeReader 1
Change Name ☒ Active

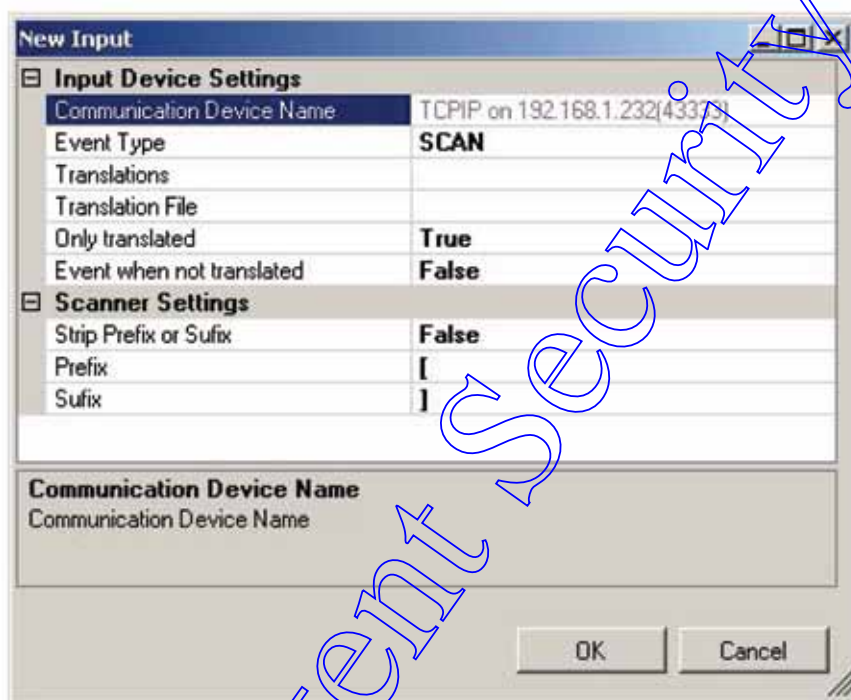
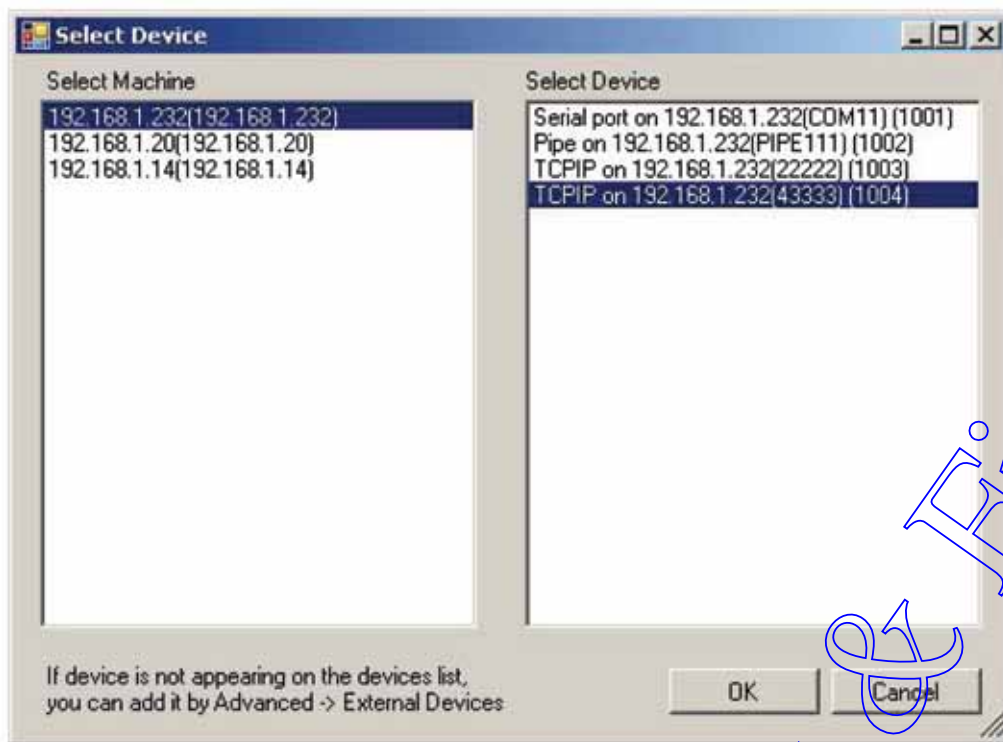
Embedding Camera: StretchCamera 1
Change Clear

Input Devices: SCAN from TCP/IP on 192.168.1.232(22222)

Events: When SCAN is *

Add Edit Copy Remove Add Edit Copy Remove

Save Cancel



Command Client

The Command menu contains sets of forms specific to the Command version of DVR.

There are:

Operators	This option allows top personalize event entries when single password access to DVR is selected.
Operator Presence Checking	Options for Operator Presence Checking
Absence mode	Setup of absence mode

Operators

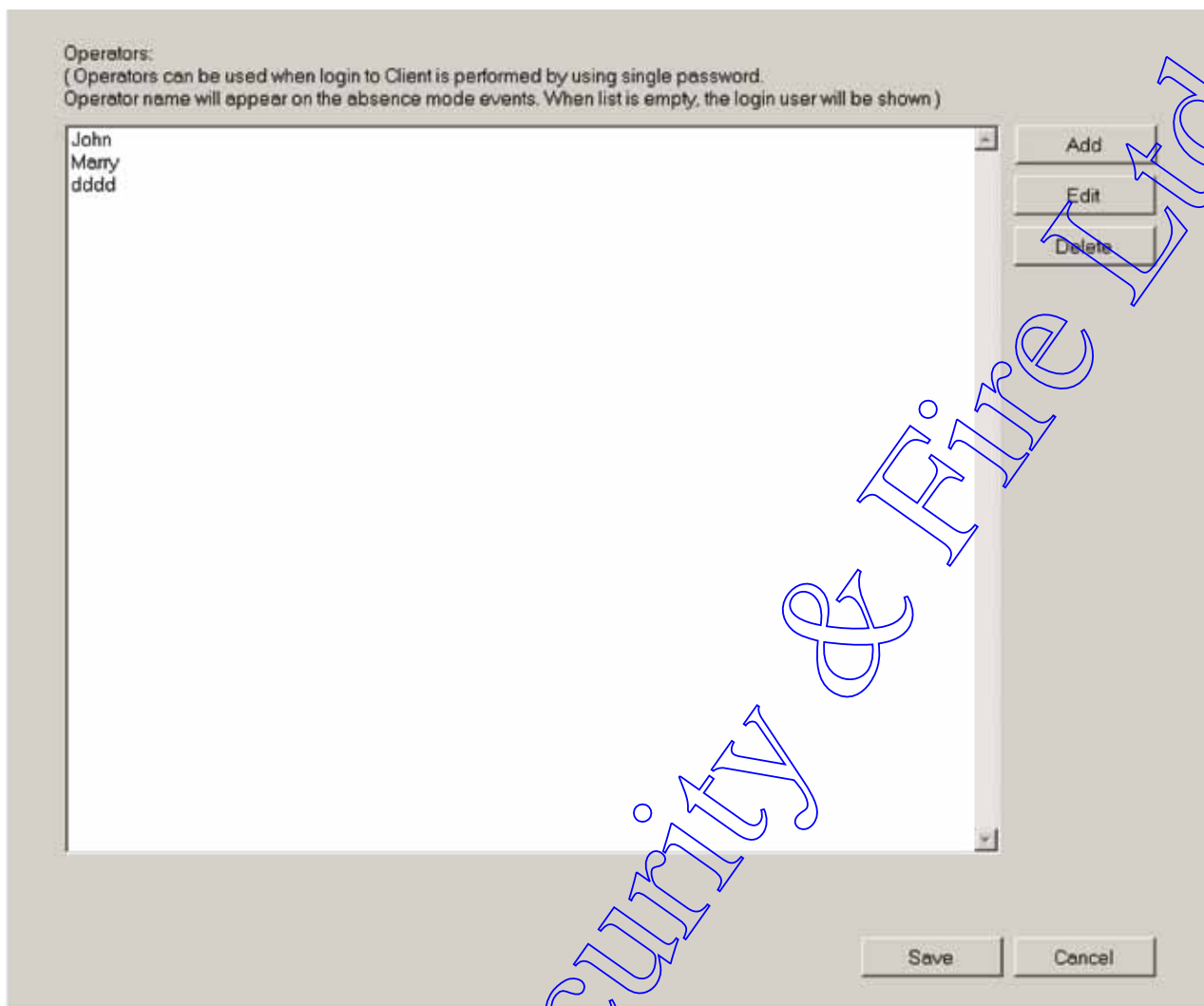
DVR allows the user to select two types of user access controls.

- multiple user/Password - when each user has own user ID and password
- single user/Password - when each user is login with the same password.

In the case of a single user/password type, messages and saved events cannot be easy linked to a particular user.

In this case Users can record their presence in the operators window.

The Administrator can enter valid user names.



Presence Checking

The DVR allows the setup of a presence checking tool.

The Value of "Check average every" sets the average time interval between each time an employee's presence is checked. Do not enter too short a time because this can be unreasonable and users can refuse to cooperate.

Also the response time cannot be too short as a user must be given a chance to answer.

Each failed check of the user presence causes the activation of rule _XXXXX. This rule is a system rule and editing its properties is limited. The Administrator can add as many output actions as he needs.

Presence checking

This window allows to setup the dialog box what is appearing on Client and is asking for pressing a button. This will check the operator presence. When operator will not press the button in time, it saves two events in the database, one just after the time pass and another when he/she presses the button. To set output actions when user fails to respond in time, use the "Operator not present" input in rules manager. When allowed please consider to setup the Unattended mode.

☒ Randomly check operator presents

☒ All day Check from: [12:00] Check to: [01:00]

Check average every: [5] minutes (minimum 5 minutes, maximum 720 (=12 hours))

Wait time for response: [15] seconds (minimum 15 seconds, maximum 300 seconds (=15 min))

☒ Save in database the in time response

☒ Fire the rule's output actions when operator returns in time

☒ Ask for reason when delayed

Apply on:

☒ All clients

☐ Selected IPs IP list: [192.168.1.10; 192.168.1.11]

☐ Selected domain Domain: [192.168.1.0] Mask: [255.255.255.0]

[Save] [Cancel]

Absence mode

When the user presence tool is enabled it can happen that the user will be not present in front of their DVR because they are performing their duties at another place. For example they are outside the DVR room to check an incoming or an outgoing car. Also other reasons can apply, such as a private issue (a restroom break or making coffee or tea).

In those circumstances the Unattended mode can be applied.

Absence mode settings:

This window allows to setup ability to Operator to not be not present in the front of Client. It allows the private reason and/or the business reasons (like the car inspection or package receiving). During absence mode, the operator presence checking will be not performed.

☒ Allow private issues

Maximum time: [1] minutes (max 90 min)

☒ Ask for password on return ☐ Ask for reason when delayed

☒ Save in database in time return ☐ Fire the rule's output actions when operator returns in time

☒ Allow business issues

Business Issue: car(Time = 1)
Business Issue: water(Time = 1)
Business Issue: Car Park checking(Time = 12/19)
Business Issue: Fence Check(Time = 12/22)

[Add] [Edit] [Delete]

☐ Ask for password on return ☐ Ask for reason when delayed

☐ Save in database in time return ☐ Fire the rule's output actions when operator returns in time

Apply on:

☒ All clients

☐ Selected IPs IP list: [192.168.1.10; 192.168.1.11]

☐ Selected domain Domain: [192.168.1.0] Mask: [255.255.255.0]

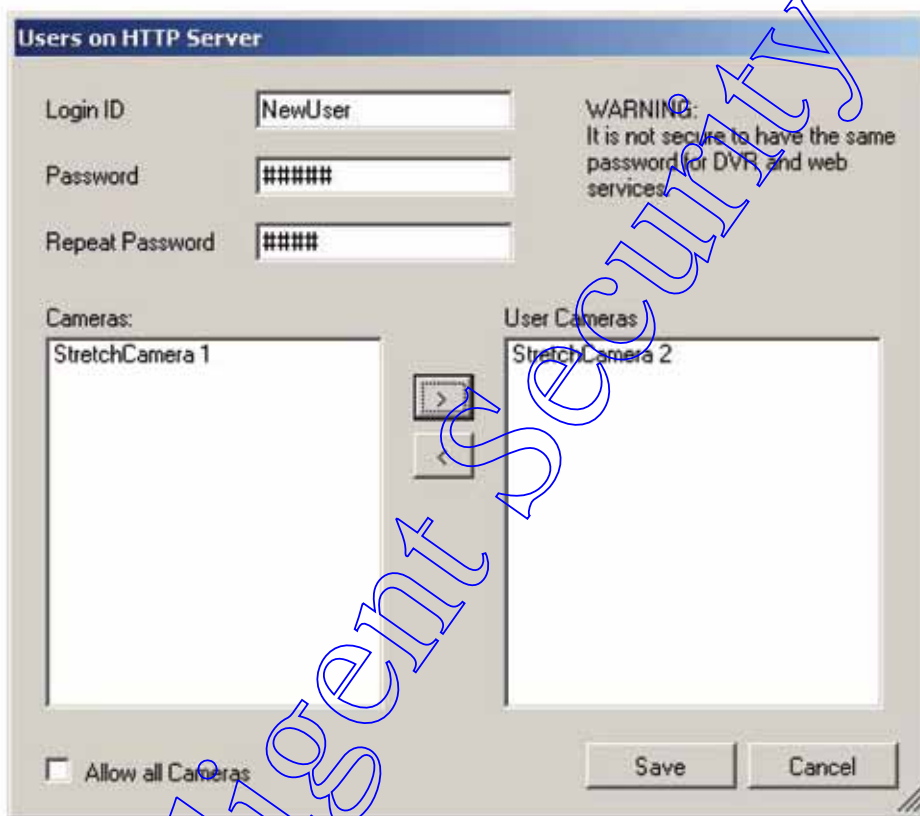
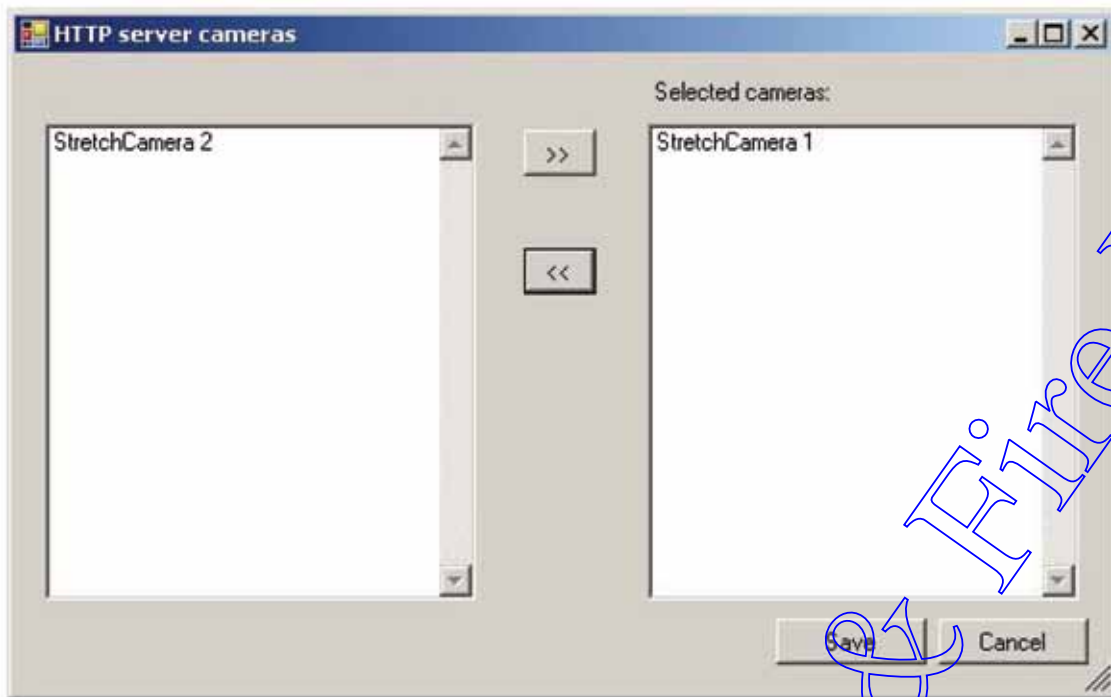
[Save] [Cancel]

The previous form is used to set the unattended mode parameters. It creates a set of system rules that appear on the rules manager form. Input events for these rules can be edited only by this form but output action can be added in the rules form (see samples).

After pressing Add a Business Issue administrator you can see a business issue edit form.

The Output action will be always be performed when an operator does not return in time but the administrator can check the option to fire output actions also when user returns in time. Also any delayed answer will be saved in the database but an in time return can be saved as well.

HTTP Server



Disk Clean

The Disc Clean window allows users to setup automatic disc cleaning. During the normal work of the DVR the file system on each disks becomes more fragmented every day. Disk cleaning procedures allow setting up of a cleaning procedure on each disks.

Disk Clean procedure disallows appearing of large fragmentation of footages. It is passing once a day for standard optimization and once a week for empty space maintenance. I can slow down a preview framerate (but not recording framerate) so set time when nobody is watching

Day of Week for Disk Clean

Start Hour for Disk Check

License Info

License info

LICENSE Key
Key ID = MACIEK3
Valid to = 27 maja 2111
Max channels = 32
DVR flavour = Enterprise
Server License = 6133660b-1c28-4464-8bdb-8d90941d0fa9
MultiServer License = e4cd4386-23c9-428f-a197-a9435d4f937e
Machine License = 00000000-0000-0000-0000-000000000000

LICENSE Key
Key ID = MACIEK5
Valid to = 29 sierpnia 2111
Max channels = 32
DVR flavour = Professional
Server License = f9d2183d-2777-4c14-a8ef-1c551ce6563c
MultiServer License = 26ca646e-b3ab-4142-b19a-48916bda5cc
Machine License = 9dc7e6b5-018a-41e8-b49d-c5b0cc12954f

FEATURES Key
Key ID = MACIEK2
Valid to = 23 sierpnia 2111
Visitors support = True
MultiCamera support = True
Guard check support = False
Time Lapse cameras = 3
Barcode readers = 0
Fiscal printers = 0
Message Views = 0

Some above features can be overwritten from the license file.

Check out our offer on mobile market sites:
[Android market](#) [iTunes](#)

For security reason above links can not work on DVR.

Close

Feature Request

This service can be used for requesting unpaid DVR features. It is using your email account to send request to producers or distributors email account. Beside others you may need to enter your email account details. DVR is not collecting that data and uses it only to send email using your email account. If you do not want to use DVR for sending request copy email content and send it yourself using your email client program or www interface. When you will send yourself you need also attach the License XML file from your USB license key (it is located in ADATA folder).

Your email:

Subject:

Your name:

Your phone number:

Your email body:

Please send me update of license for:

Add 4 TimeLapse cameras
Add 4 Panoramic cameras
Add 4 Barcode readers

My phone number is 123312123

With regards
Name

Do not modify this line and above.
Enter your remarks below.

Upgrade config. to:

☐ Add visitors support

☐ Add guard check

☐ Add Multi Server

Time lapse cameras:

Panoramic cameras:

Input devices:

Barcode readers:

Fiscal printers:

Check out our offer on mobile market sites:
[Android market](#) [iTunes](#)

☒ Send to me carbon copy

For security reason above links can not work on DVR.

Send Email

Email server:

Email server port:

Use SSL: ☒

Email server user name:

Email server password:

Special DVR Configurations

One DVR Server and a second Machine

1. Glossary

Server – the device with full the DVR version installed (with all DVR components – Client, Machine, Server),

Additional Machine – the device with full DVR version installed.

2. Prerequisites for installation procedure

Before the user starts the installation procedure the user has to ensure that all computers on which DVR is installed are connected to the local area network and check that there is no problem with communication between them.

First, the user has to gather information about local IP address of each computer.

To do this we must run the command line

c:\windows\system32\cmd.exe

Then enter following command:

ipconfig.exe

Then press enter.

As result, we should get similar information as shown in example below.



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Administrator>ipconfig.exe

Windows IP Configuration

Ethernet adapter Loopback:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : 192.168.100.132
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : fe80::4cff:fe4f:4f50x4
    Default Gateway . . . . . : 

Ethernet adapter Local Area Connection 2:

    Connection-specific DNS Suffix  . : bigbrat.local
    IP Address. . . . . : 192.168.1.19
    Subnet Mask . . . . . : 255.255.255.0
    IP Address. . . . . : fe80::216:76ff:fe99:4383x5
    Default Gateway . . . . . : 192.168.1.129

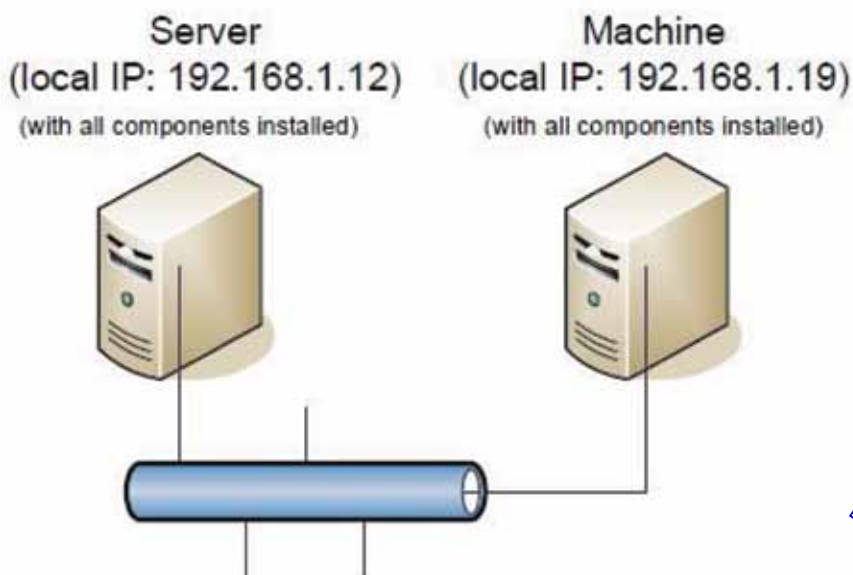
Tunnel adapter Teredo Tunneling Pseudo-Interface:

    Connection-specific DNS Suffix  . : 
    IP Address. . . . . : fe80::ffff:ffff:ffffd6
    Default Gateway . . . . . : 

C:\Documents and Settings\Administrator>
```

Make a note of the IP ADDRESS under the ETHERNET ADAPTER LOCAL AREA CONNECTION 2

In the installation procedure the following example of network schemes will be used.



For each computer please confirm that there is a connection between them.
This can be checked by executing the command:

ping.exe 192.168.1.12 in the command prompt window on the server, where 192.168.1.12 is the local IP address of the machine the user is checking connection with.

In the case of a working connection there should be information about sent packets displayed.

Additional notes:

Before following the installation procedure the user needs to be logged in as the Administrator in each system.

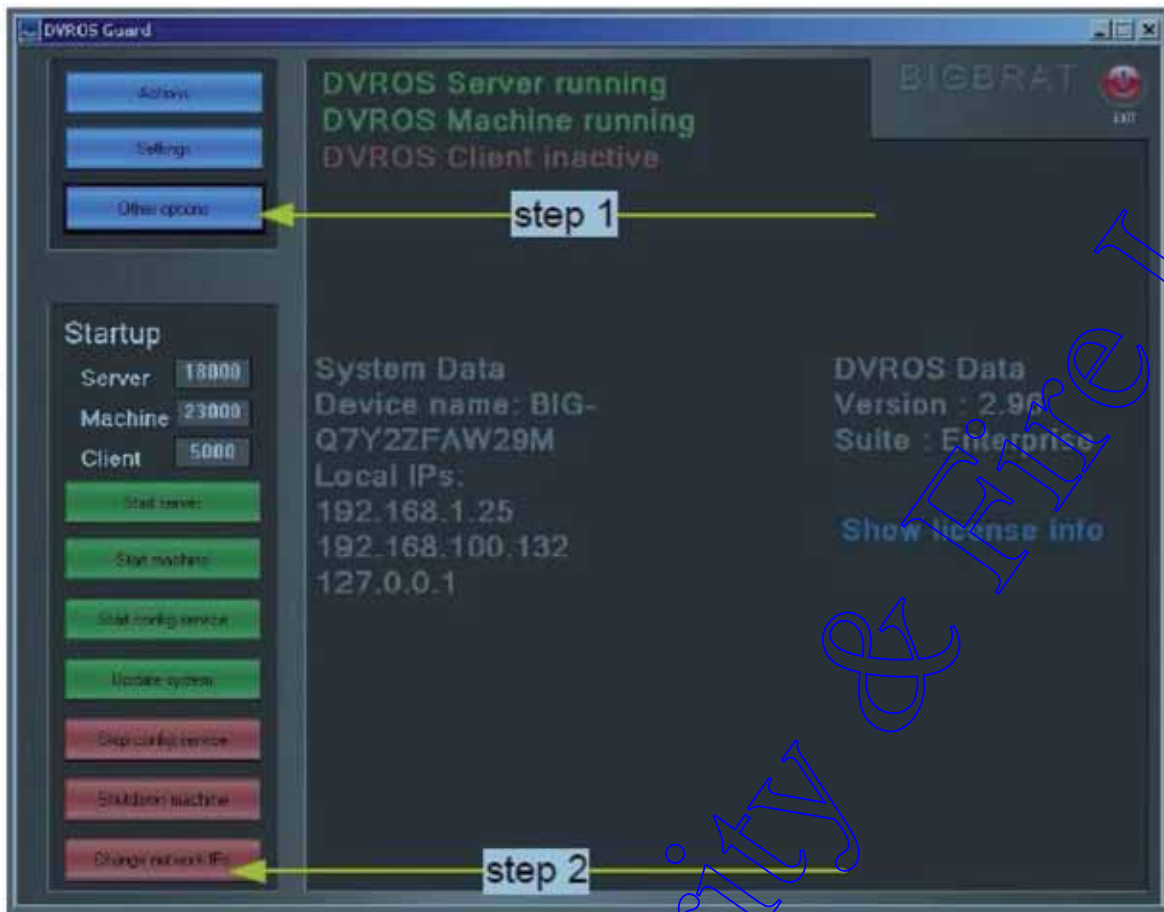
The ping command is blocked by default by the firewall.

To temporary disable firewall, go to Network settings in control panel and set appropriate values.

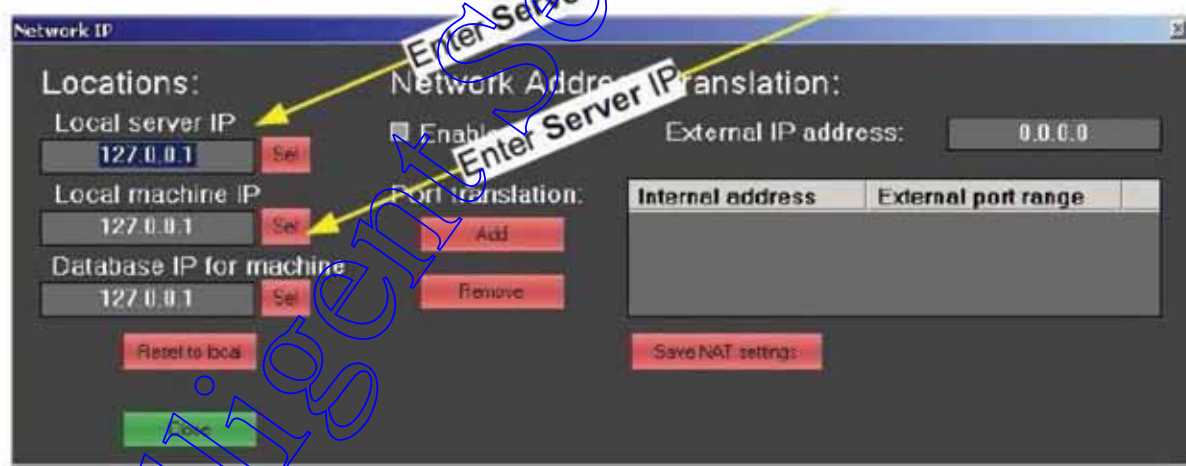
3. Installation procedure

Step 1 - IP configuration (Server and additional Machine)

Run DVR Guard on the Server, then choose Other options and press the Change network Ips button.

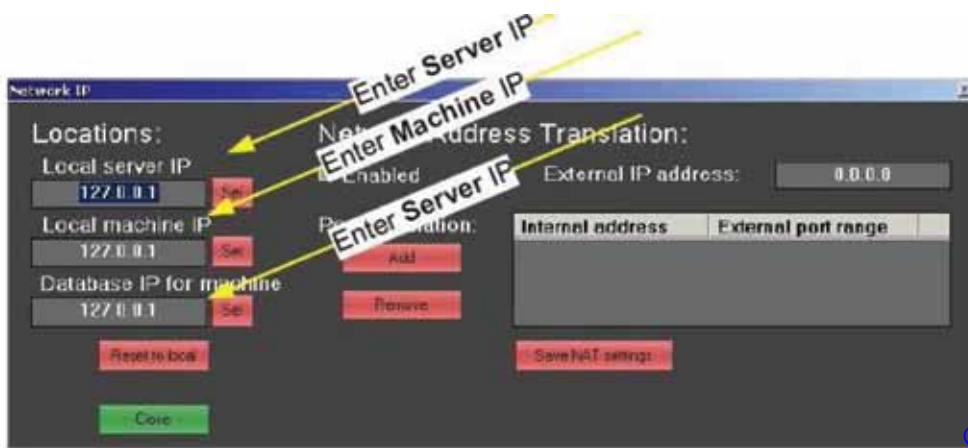


The following configuration window should appear



Enter the noted **Server** IP addresses into the edit boxes, then for each, press the Set button to store data then Close the configuration window.

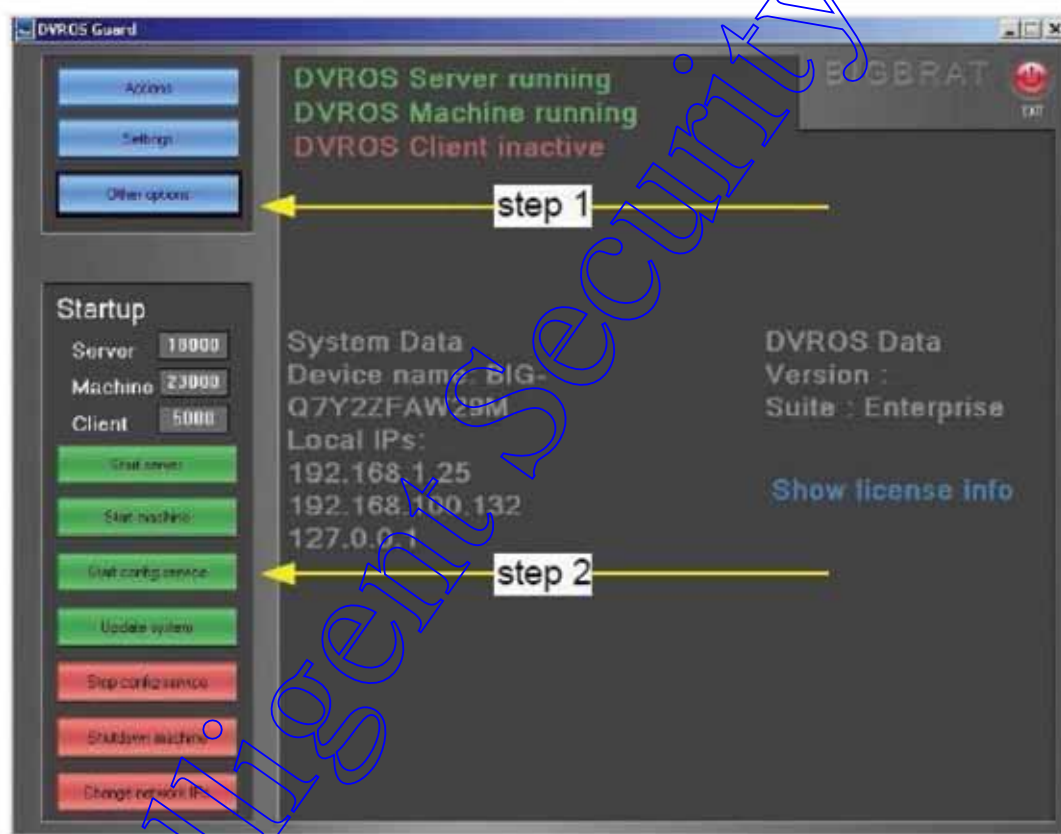
Do the same on the **additional Machine**, but when the configuration window appears, enter the data as in the following example.



In the Local server IP field, enter noted **Server** IP, but for Local machine IP enter noted **Machine** IP. Then for each option save the data by pressing the Set button. At the end, close the configuration window.

Step 2 - Running machine configuration service (additional Machine)

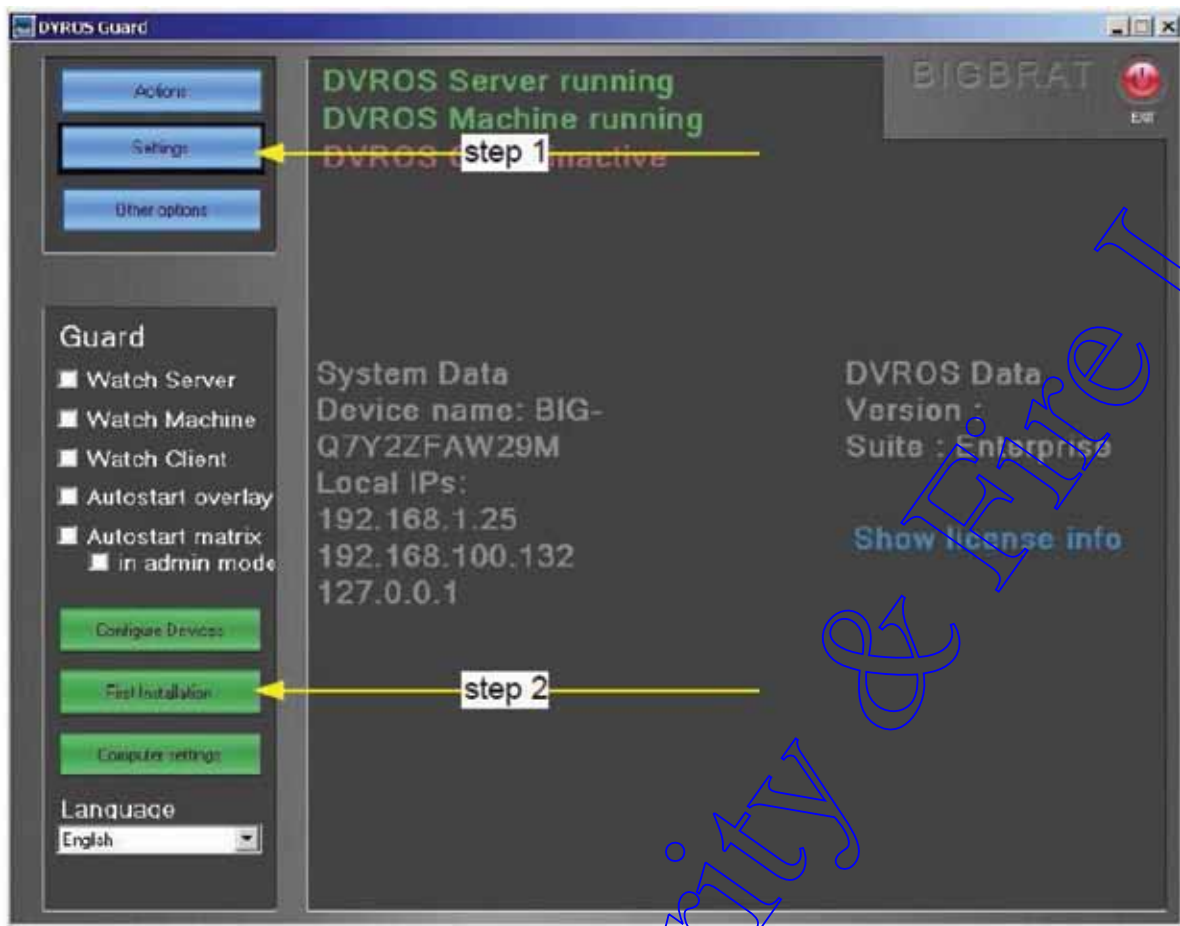
On the **Machine** we need to run a configuration service. Choose the Other options icon then press the Start config service button.



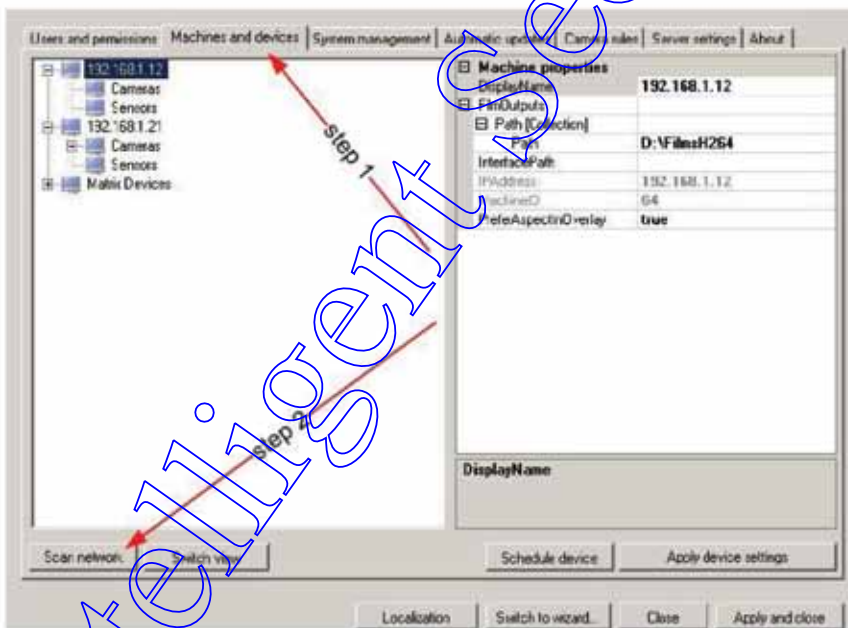
Step 3 - Devices configuration (Server)

On the **Server** we need to configure the devices.

If this is a first installation, choose the Settings icon and then press the First Installation button.



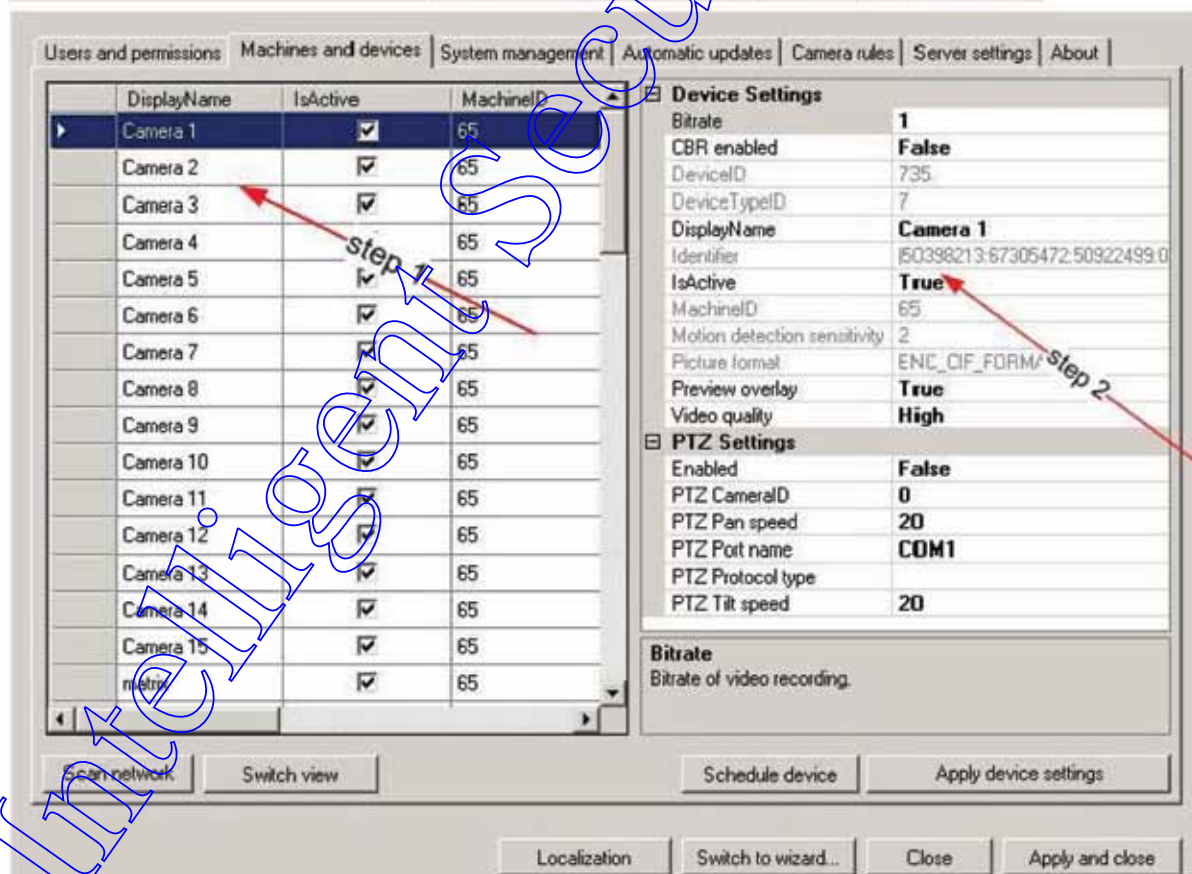
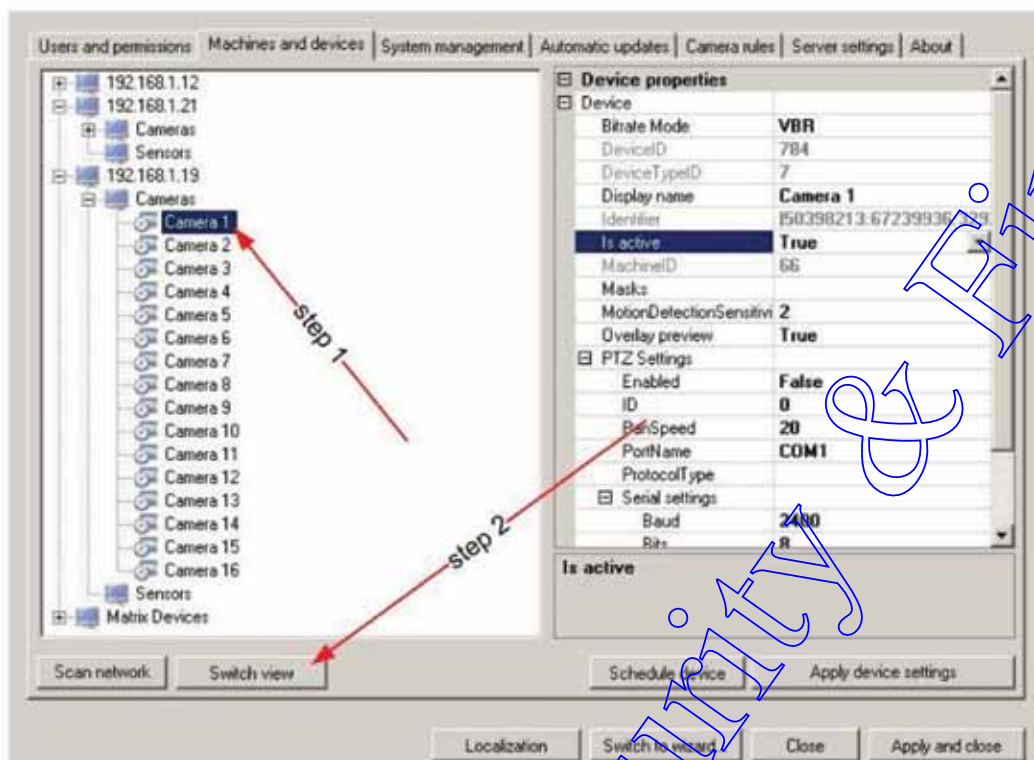
If the user has just added an **additional Machine** the user should press the **Configure Devices** button. When the configuration window opens choose the **Machines and devices** tab then press the **Scan network** button



As scanning the network completes, both IP addresses of the DVR's should be listed, in our case:
192.168.1.12
and 192.168.1.21.

Step 4 - Checking cameras activation (Server)

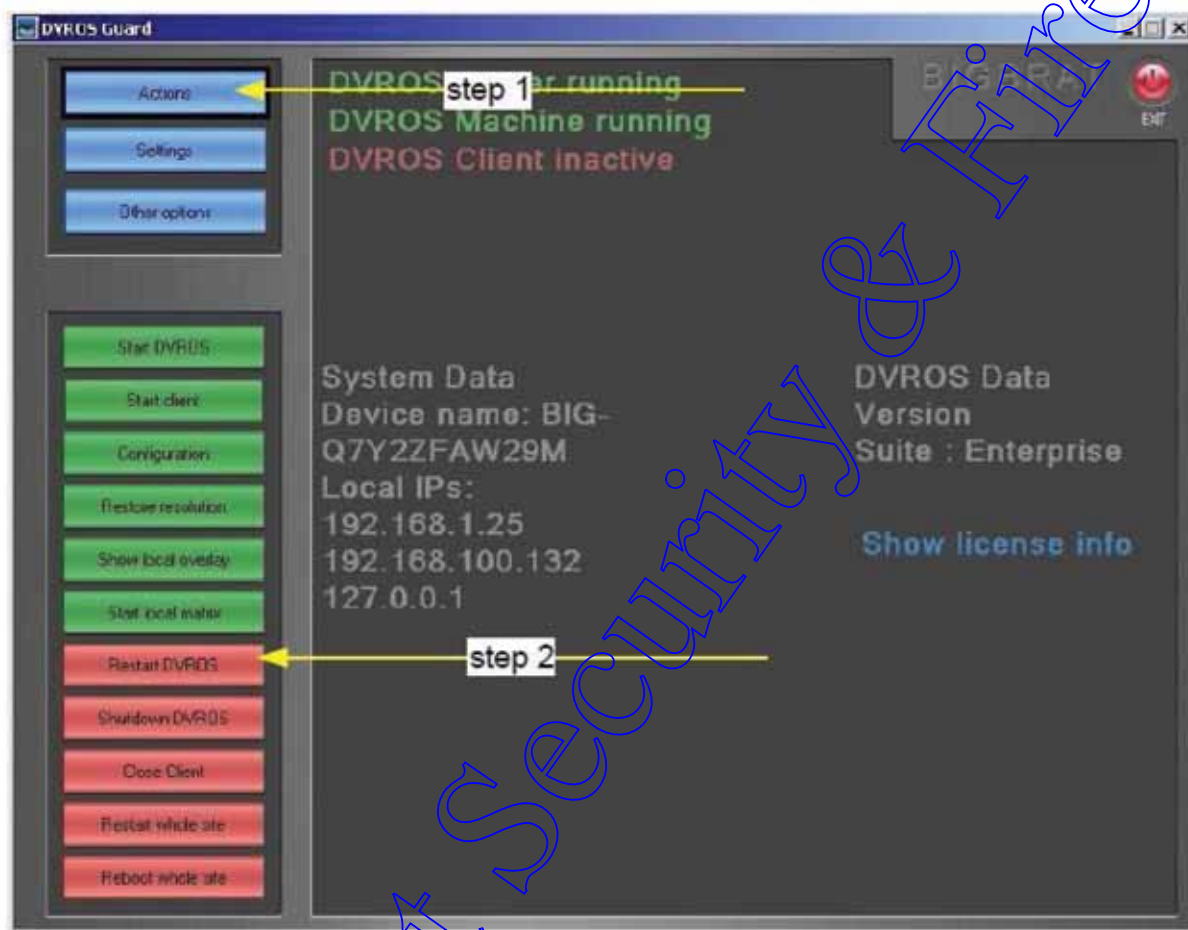
To check if all the cameras connected to all the machines and servers of DVR are active the user has to expand the cameras list then click on each camera to check its properties. Each camera that the user wants to see in DVR must have its active property set to True. To set all cameras as active one can do that by clicking on each camera separately or by clicking on Cameras (at the top of the cameras list) to set them all at once.



Now in the left window select the desired cameras (click on any position with the Ctrl key pressed or press Ctrl + A), all cameras on the list should be highlighted.
From the properties window set True for IsActive.
Finally to save data press the Apply device settings button and press the Switch view button again to return to previous view.
All cameras are now active.
Close the configuration window by pressing the Apply and close button.

Step 5 - Running Server (Server)

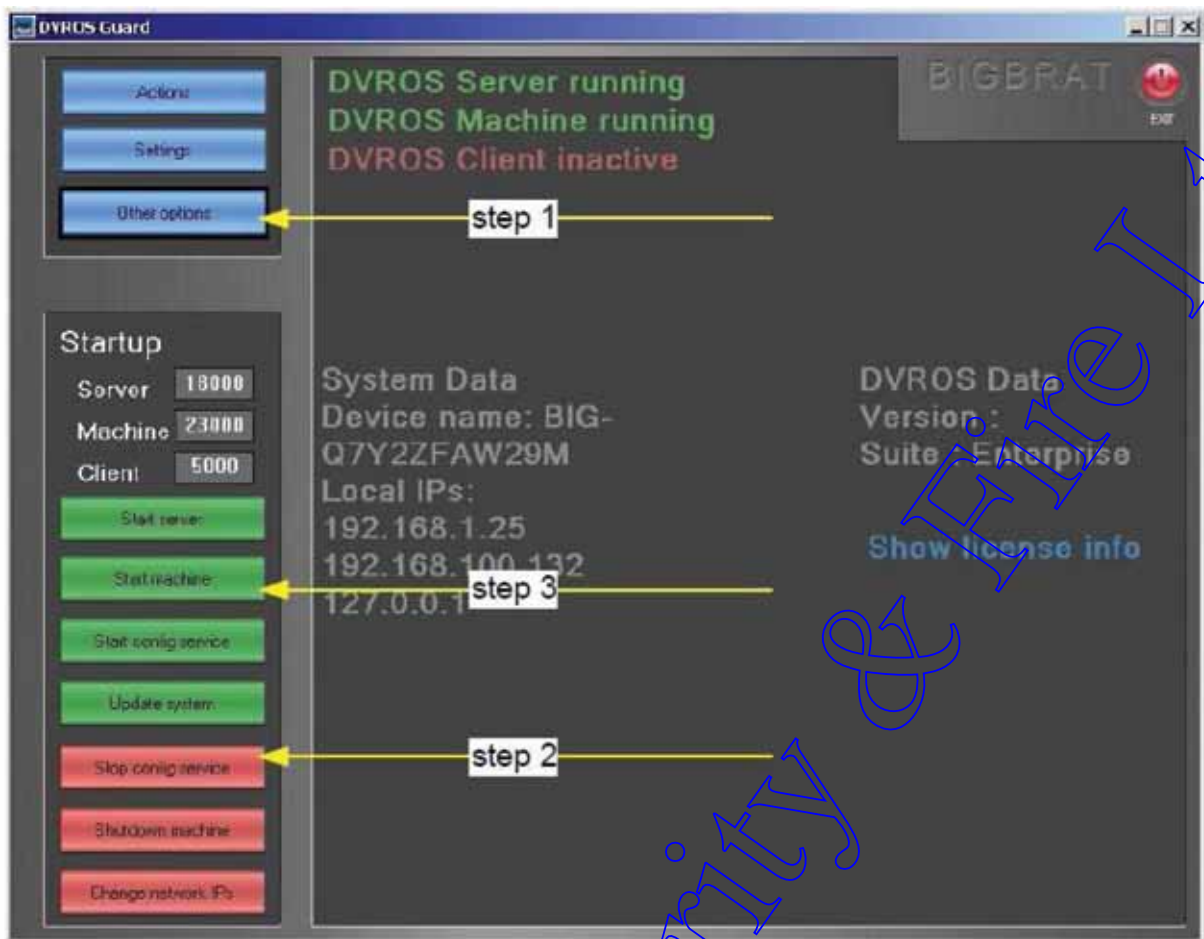
Press the Actions button. To start up the system press the Restart DVR button.



Now the Server and the local Machine are running.
The user can run Client to check if all Machines connected to the local area network are visible.

Step 6 - Running additional Machines (additional Machine)

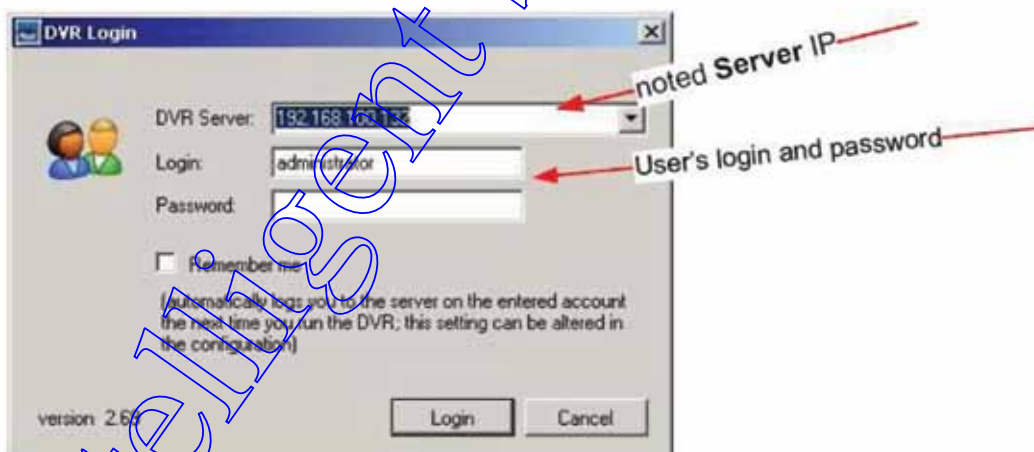
Choose Other options and press the Stop config service button then run the DVR Machine by pressing the Start machine button.



Now only the Machine should be running.

Step 7 - Running Client (Server and / or additional Machine)

To run Client, press the Actions button and the Start client button in DVR Guard. In the user login dialog window, enter the noted Server local IP, user login and password. To confirm press the Login button.



Now the user should be able to see all the cameras connected to the DVR.

4. Installing another additional Machine

To install another additional Machine to the DVR the user should follow all the procedure steps, excluding **Step 1**, configuration of the Server network IPs and the whole of Step 6 with restarting the Server. To see new cameras after the configuration the user has to restart the application.

Remote Client

For security reasons, all remote access to the DVR is disabled by default.

To allow a connection to the remote client the user should “tell” the Server that it is visible in the network.

To do that it is necessary only to configure the network connection with a **public permanent** IP address.

Do not use the **Change Network** IP button in the **Other options** screen.

Do not forget to restart the Server after changes.

After running the Client on the remote computer, select the server’s IP address and enter the appropriate user login and password.

Be sure that your remote computer has a good enough graphics card.

Administration tool

Administrator tools allows you to backup and fix the database.

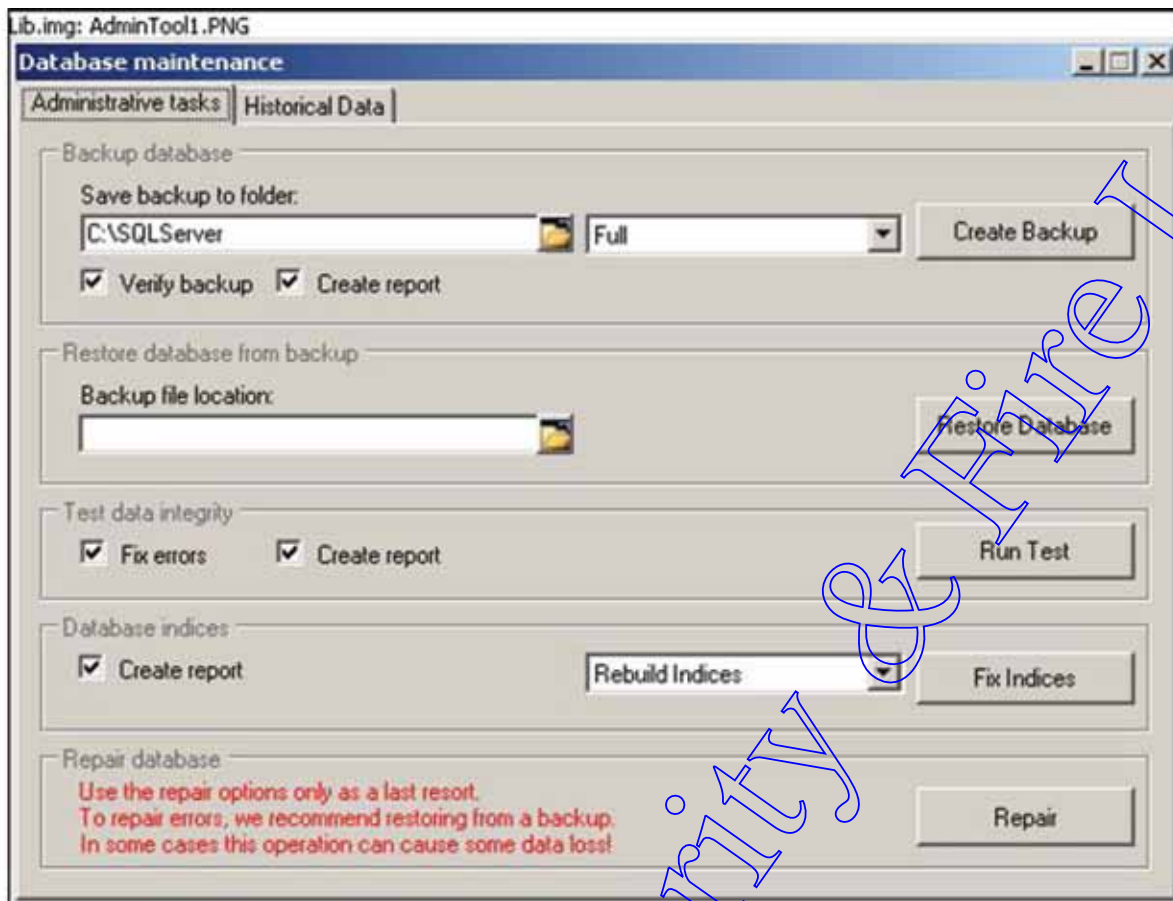
We advice you to make a regular backup of the database.

Warning: Before attempt to use the Database maintenance stop the Server and the Machine.

Database maintenance tasks:

Create Backup	Creates database backup.
Restore database	Restores database from backup
Test database	Tests database integrity. After its run it opens a folder with a log file.
Fix indexes	Rebuilding indexed can speed-up database access.
Repair database	Repairs the database from serious damage like immediately power fail.
Delete old motion detection records	Removes old motion detection data from database. Can speed up search.

Database maintenance layout



First run

Network Settings

When the User wants to use the network facilities of the DVR, he must configure the network properties. The configuration of the network parameters must be performed once, just after the system installation or after delivery to the customer site.

1. From "Start -> Settings -> Control Panel" open the Network connections icon
2. There are two network connections.
 - a. Loopback- with address 192.168.100.132
 - b. Network card - with default settings
3. Configure the Network card settings according to the local network settings (leave DHCP settings and set the static IP address, mask and the optionally gateway and DNS).
4. If the Loopback settings collide with your local settings, change the IP address to a nonexistent ip address

Fast starting

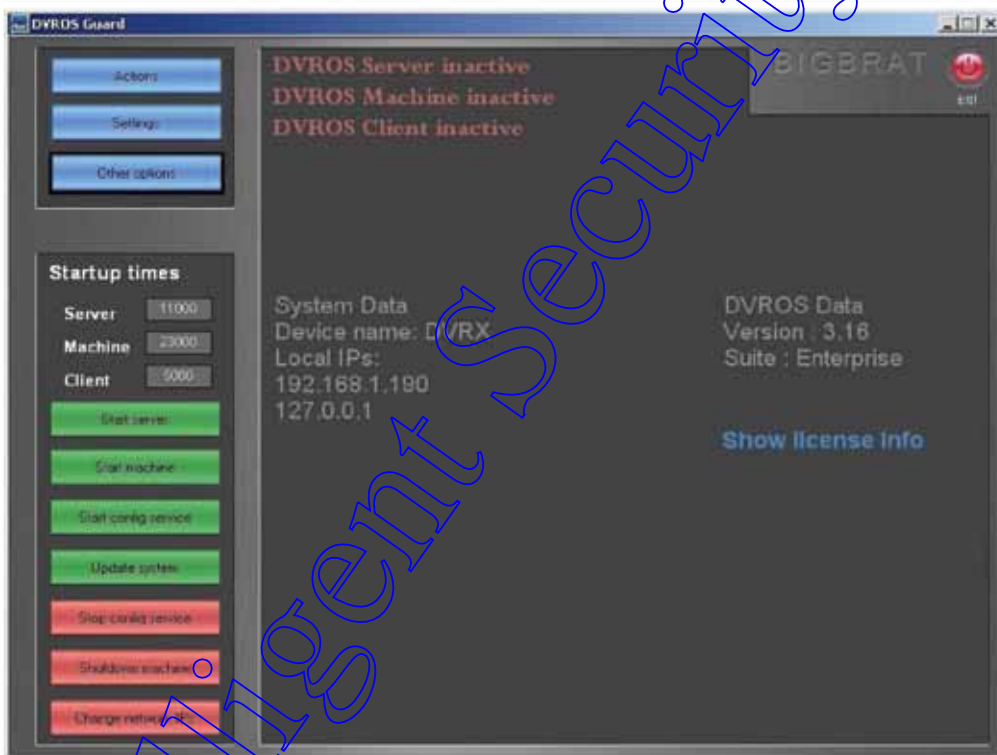
3. First time configuration

After configuration of the network IP addresses and after successful licensing, the administrator can then begin to configure the system.

1. Run the DVR Guard application (START > Programs > Big Brat > DVR Guard).



2. To set up the proper server press the Other options button



First time configuration

Usually this step is performed in a factory. But sometimes after full reinstallation of the DVR it is necessary to perform the initialization of the DVR system again.

The first step is to set up the network configuration.

After configuration of the network IP addresses and after successful licensing, the administrator can then begin to configure the system.

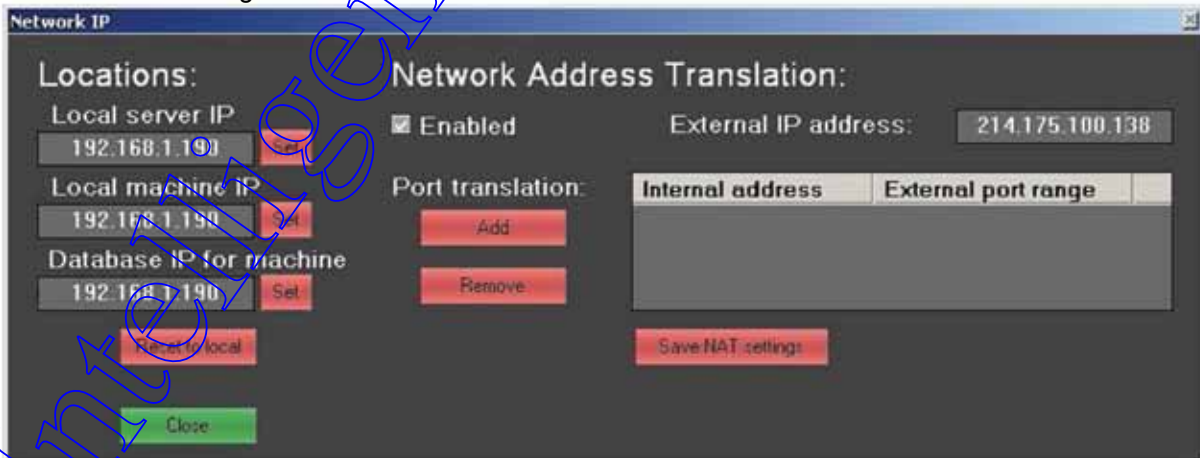
1. Run the DVR Guard application (START > Programs > Big Brat > DVR Guard).



2. To set up the proper server press the Other options button



3. Press the Change Network IP button.



4. Set the network addresses in the edit fields and press Set buttons.

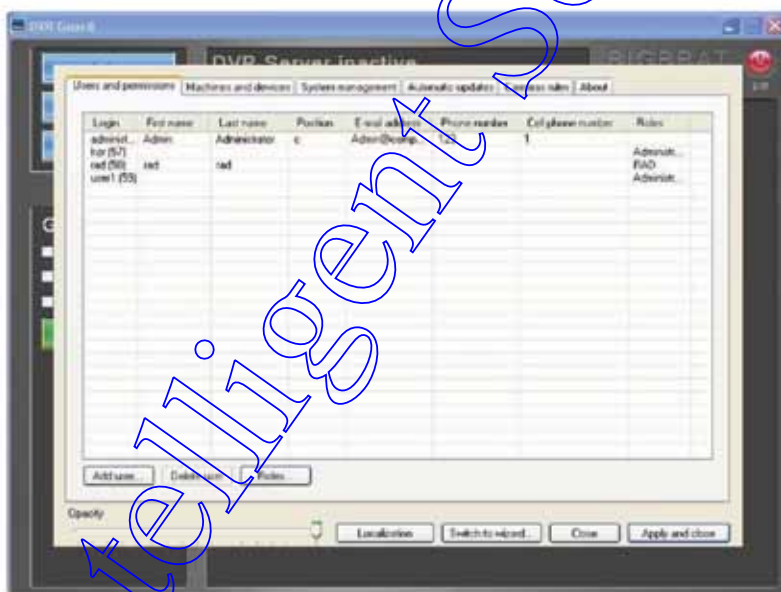
- 5 To change the settings of the Server and the Machine and to make them work locally press the Reset to local button.
6. Close this window.
7. Press the Settings button.



The steps below are usually performed in the factory, so the standard user should not do them without necessity.

8. Press the First Installation button to activate the server and to run the Configurator.
9. When the DVR Login window appears, insert the administrator and desired server data. For security reasons the administrator should change the password after the first log-in.

The administrator can create new users. After creating a new user there is a possibility of logging-in using users login and password.

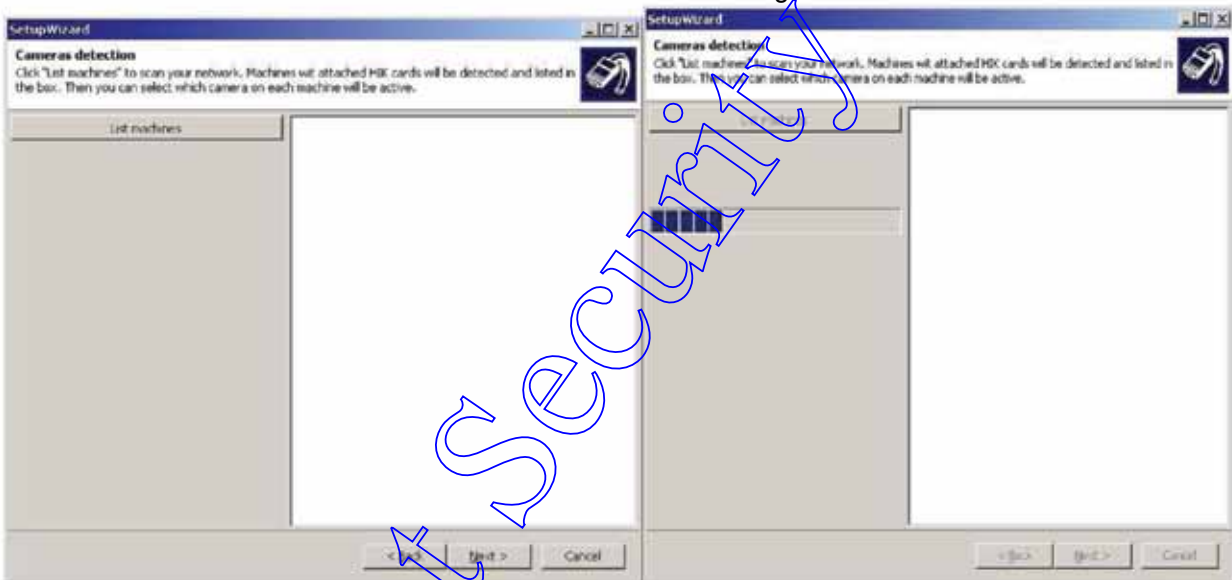


- 10 Press the Switch to wizard button

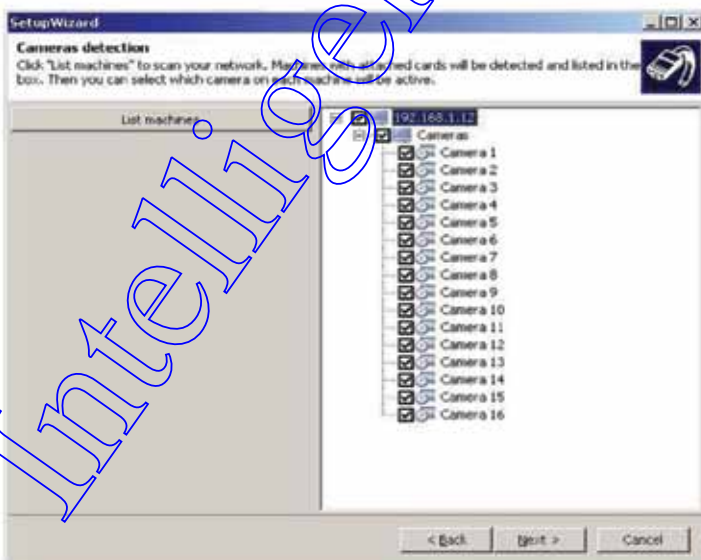


11. Press the Next button.

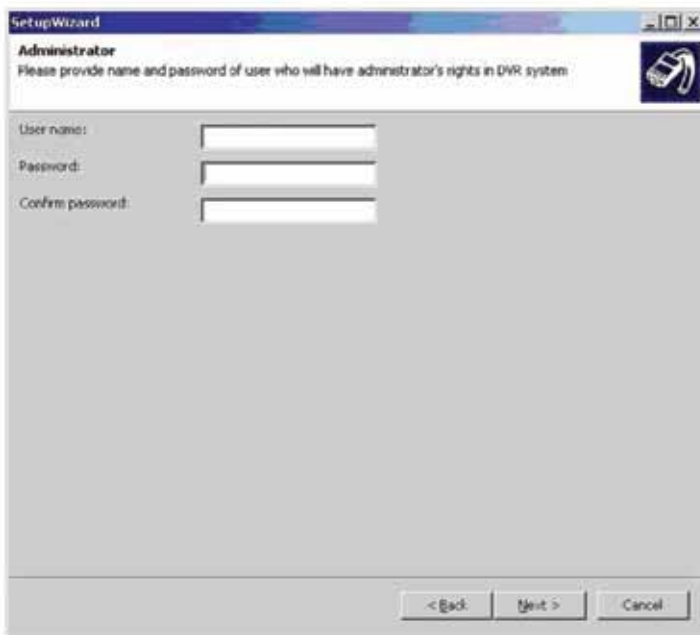
12. Press the List machines button. The automatic search will begin



13. After searching, the list of located cameras with IP addresses will appear, press the NEXT button.



14. In the next window, insert the administrator data.



The image shows a Windows-style window titled "SetupWizard". The main heading is "Administrator" with a subtext: "Please provide name and password of user who will have administrator's rights in DVR system". There is a small icon of a camera in the top right corner. Below the text, there are three input fields: "User name:", "Password:", and "Confirm password:". At the bottom of the window, there are three buttons: "< Back", "Next >", and "Cancel".

15. To finish the automatic part of the setup process, press the Finish button.



The image shows a Windows-style window titled "SetupWizard". The main heading is "Set-up finished" with a subtext: "You've finished set-up of cameras. Please click 'Finish' to close wizard". There is a small icon of a camera in the top right corner. At the bottom of the window, there are three buttons: "< Back", "Finish", and "Cancel".

16. The above scan can be performed by pressing the "scan Network" button too. It can be used when adding additional machines to the server.

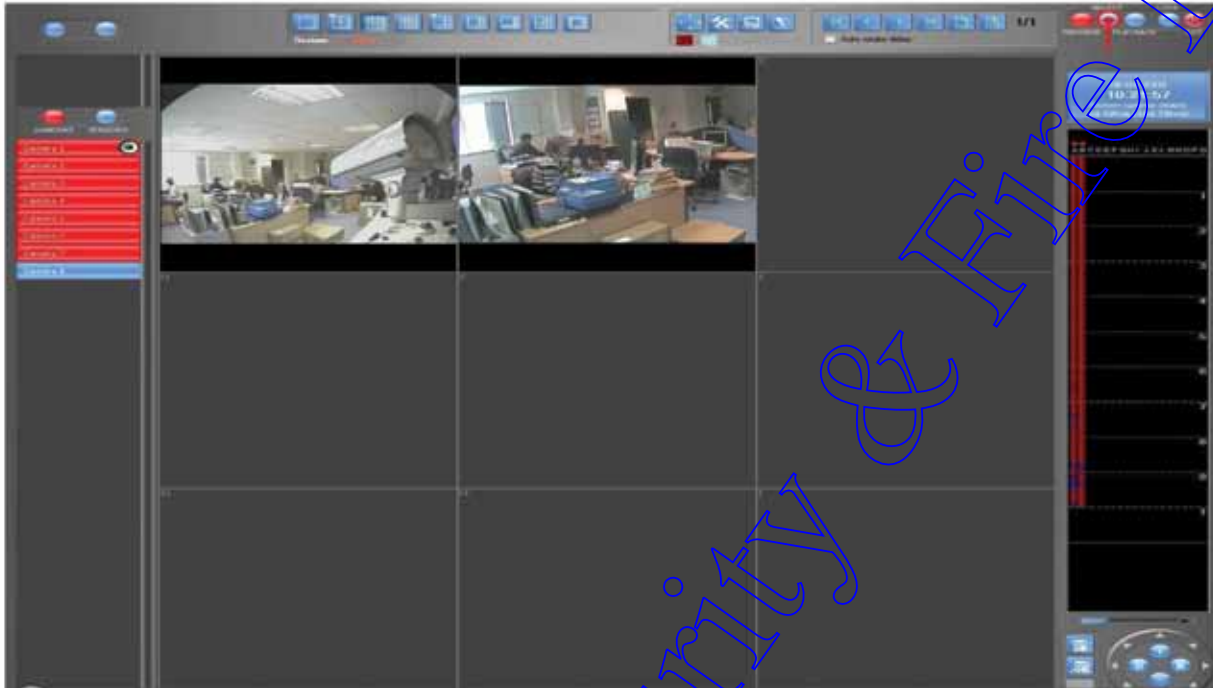
Quick Guide

Quick Guide contains short recipes to perform the most common DVR tasks.

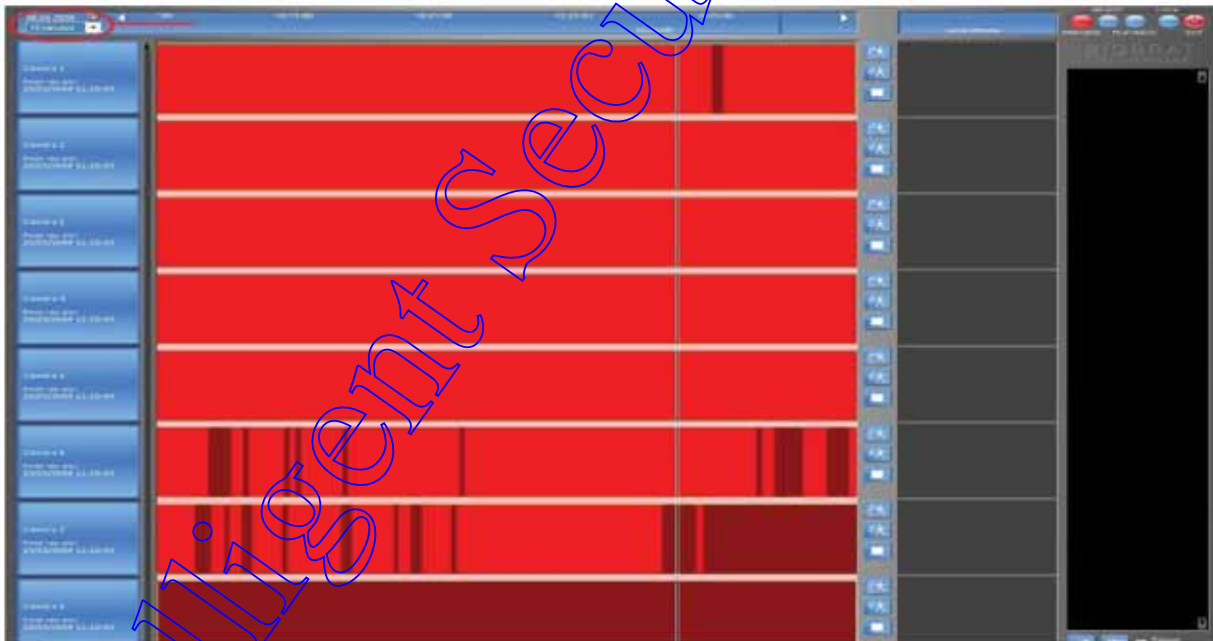
Searching and burning

BASIC RETRIEVAL OF INFORMATION

- On LIVE VIEW click SELECT



- To select date left click on DOWN ARROW to the left of the DATE



- You will be presented with a calendar, left click the required date
To narrow or expand you search left click the box directly underneath the date
LIGHT RED = MOTION RECORDING
DARK RED = NO MOTION RECORDING
- To select a section to playback please hover your mouse over the time line (represented by light red and dark red blocks)
- Left click, hold and drag selection until required end time

TO SELECT MULTIPLE TIMES PLEASE HOLD DOWN “CTRL” ON KEYBOARD WHILE SELECTING SECTION

- You will then see movie files appear in the black box to the right of the screen which will be displaying Camera Number, Date and Start Time
- Once required movie files have been sourced left click PLAYBACK.
- The screen will then change; you will see a grid of four.
- THE UNIT IS CAPABLE OF UP TO 4 CHANNEL PLAYBACK AT ANY ONE TIME
- Left click, hold and drag required movie files into any spare section of the grid

THE FILE WILL START PLAYING

- To burn the selected movie files please click the BURN ICON (Bottom Left) represented by an CD ICON
- You will then be presented with 2 options, please choose relevant media source

USB - THE USB PEN OR EXTERNAL HARDDRIVE MUST BE FORMATTED IN FAT32 PRIOR TO ANY MOVIE BURNING

DVD - PLEASE ONLY USE DVD+R'S

- When movie burning is complete Left click PREVIEW to return to LIVE VIEW

Restarting DVR

NAVIGATING TO DVR GUARD

(From LIVE VIEW)

- Left click EXIT (Located in the top right section of the display)
- Click OK when prompted to SAVE LAYOUT AS DEFAULT
- You will be prompted for user name and password
- Input user name (default – **administrator**)
- Input password (default – **super**)
- Left click OK

RESTARTING DVR

(If in LIVE VIEW follow the above instructions first)

(To be used after any configuration change in the DVR CONFIGURATION section or when prompted)

- Left click START
- Navigate to ALL PROGRAMS – BIGBRAT
- Left click DVR GUARD
- You will now be at the DVR GUARD screen
- Left click ACTIONS
- Left click RESTART DVR, wait for progress chart to complete

- Left click START CLIENT
- You have now returned to LIVE VIEW

RESTARTING WHOLE DVR

- Follow step one first
- Left click START
- Navigate to ALL PROGRAMS
- Left click SHUTDOWN
- Wait 20 seconds after unit has shut down completely then power up

Schedule

SCHEDULE

ALL CAMERA SCHEDULE

Instructions

- Click the SERVER CONFIGURATION icon
- Input username (default – **administrator**)
- Input password (default – **super**)
- Left click OK
- Go to Machines and Devices tab
- Double left click IP Address
- Right click CAMERAS
- Left click SCHEDULE ALL CAMERAS
- You will be presented with a matrix in which you can select multiple days and hours
- Hold left mouse button down to select days / hours
- Click ADD
- Name your schedule
- In GENERAL use the following settings :
It is recommend to set this section at CIF, 12 FPS, QUALITY at MEDIUM and BITRATE at 0.5 as in most cases it is not necessary to record static images at a high resolution
- In MOTION DETECTION use the following settings :

ENABLE MOTION DETECTION SHOULD BE TICKED

It is recommended that you set this section to 2CIF, 25 FPS, QUALITY at HIGH and BITRATE at 2.0, If you wish to set it at 4CIF please be aware that only half the amount of cameras on any one card can be set at this resolution at any one time.

- Left click OK
- You will see each day now filled with configured schedule
- Left click SAVE AS TEMPLATE and input schedule name
- Left click SAVE AND CLOSE
- You will now be back in the MACHINES AND DEVICES section
- Left click APPLY DEVICE SETTINGS
- Left click APPLY AND CLOSE
- You will now be prompted to restart DVROS, left click OK

SCHEDULE

SINGLE CAMERA SCHEDULE

Instructions

- Click the SERVER CONFIGURATION icon
- Input user name (default – **administrator**)
- Input password (default – **super**)
- Left click OK
- Go to Machines and Devices tab
- Double left click IP Address
- Double left click CAMERAS
- Left click CAMERA1
- Left click SCHEDULE CAMERA
- You will be presented with a matrix in which you can select multiple days and hours
- Hold left mouse button down to select days / hours
- Click ADD
- Name your schedule
- In GENERAL use the following settings :
It is recommend that you set this section at CIF, 12 FPS, QUALITY at MEDIUM and BITRATE at 0.5 as in most cases it is not necessary to record static images at a high resolution
- In MOTION DETECTION use the following settings :

ENABLE MOTION DETECTION SHOULD BE TICKED

It is recommend that you set this section at 2CIF, 25 FPS, QUALITY at HIGH and BITRATE at 2.0, If you wish to set it at 4CIF please be aware that only half the amount of cameras on any one card can be set at this resolution at any one time.

- Left click OK
- You will see each day now filled with configured schedule
- Left click SAVE AS TEMPLATE and input schedule name
- Left click SAVE AND CLOSE
- You will now be back in the MACHINES AND DEVICES section
- Left click APPLY DEVICE SETTINGS
- Left click APPLY AND CLOSE
- You will now be prompted to restart DVROS, left click OK

How To

This chapter contains a set of detailed step by step instruction for setting up selected features of DVR.

- Setting up an alarm scenario about a Fire alarm in Hall No 2 (usage of a checked message event)
- Setup the panic button (a different system reaction on different places)
- Guard concise checking (rule validity period, usage counter)

Setting up alarm scenario

Setting up alarm scenario about Fire alarm in Hall no 2

Description:

In IO Box 1 input 2 is connected to smog detector output in Hall 2. The state of input is NC (normally closed).

When a fire is detected

- camera 2 will need to go to preset position 3
- camera 4 will need to go to preset position 2
- It will be necessary to activated the output on IO Box 1 to switch on the fire alarm sign
- the guard in Gate 2 (different DVR client) will need to keep the gate open

Alarm escalation scenario

1. Call to the manager of Hall 2 to check the reason for the fire alarm . Phone number is 2345.
2. Call to the Fire station. Phone number 112.
3. Open the spare key box number 2 and take keys to emergency exits 12,13 and 14,
4. Open the emergency exits.

Steps:

- Prepare a file named e.g. FireAlarmHall2.txt containing alarm escalation scenario, e.g.:

Call to manager of Hall 2 to check the reason for the fire alarm . Phone number is 2345.

Call to the Fire station. Phone number 112.

Open the spare key box number 2 and take the keys to emergency exits 12,13 and 14,

Open the emergency exits.

- Prepare a file named e.g. FireAlarm.html containing: (copy and paste text)

```
<html>
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Fire Alarm</title>
</head>
<body>
<p><span style="font-size: 26pt">There is <span style="color:#ff0000">FIRE ALARM in HALL
2</span></span> </p>
<p></p>
<p>Do not panic </p>
<p>Please perform all tasks and check them when done.</p>
<p></p>
</body>
</html>
```

The content of the file can be any valid HTML page. For security reason please avoid any external links .

Above file in internet browser:

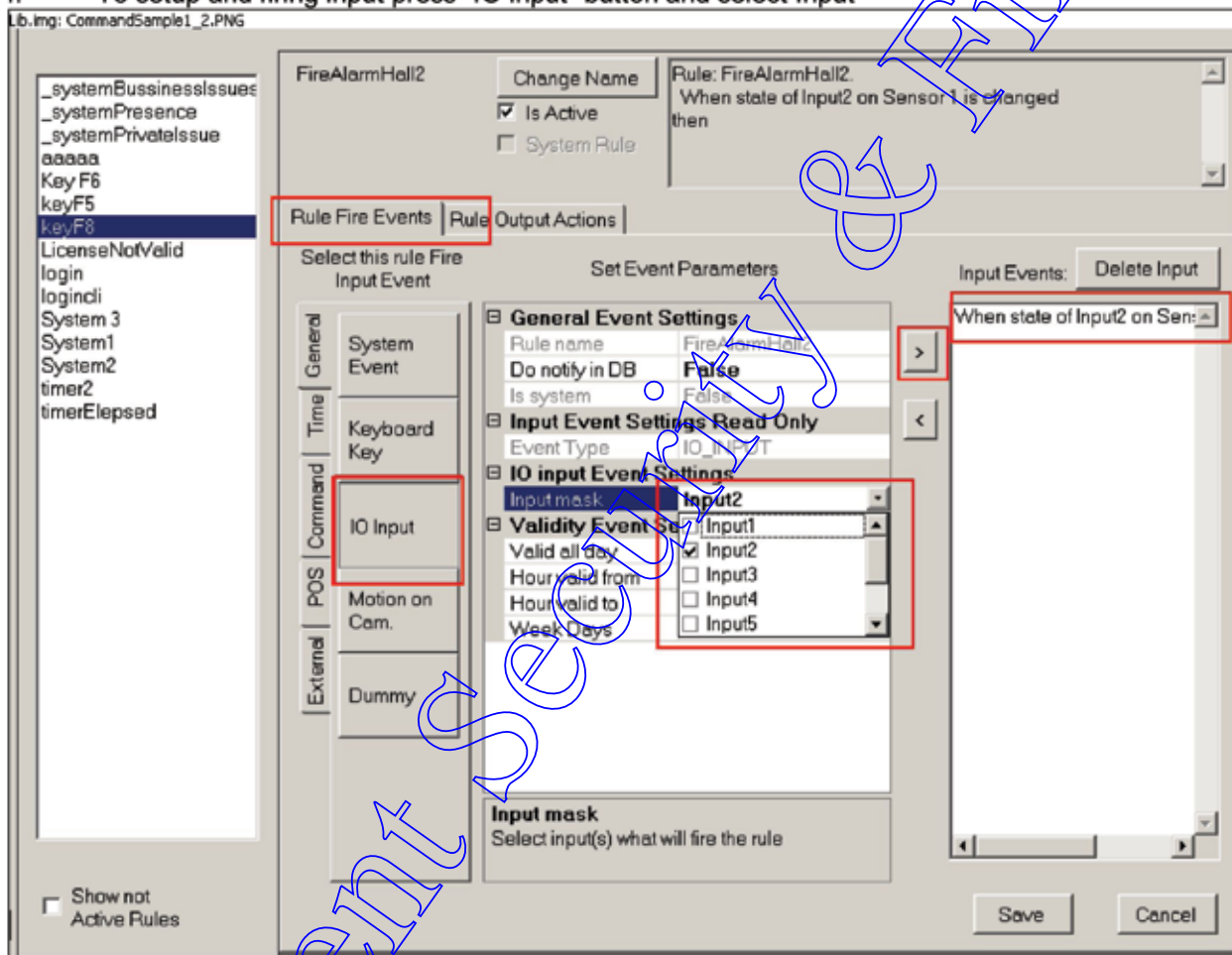


- Copy this file to DVR to the folder, e.g. C:\Alarms. Do not forget to save it in the same place as an image named "firefire.jpg".
- link inputs and outputs to the IO box.
- Set up the rule:

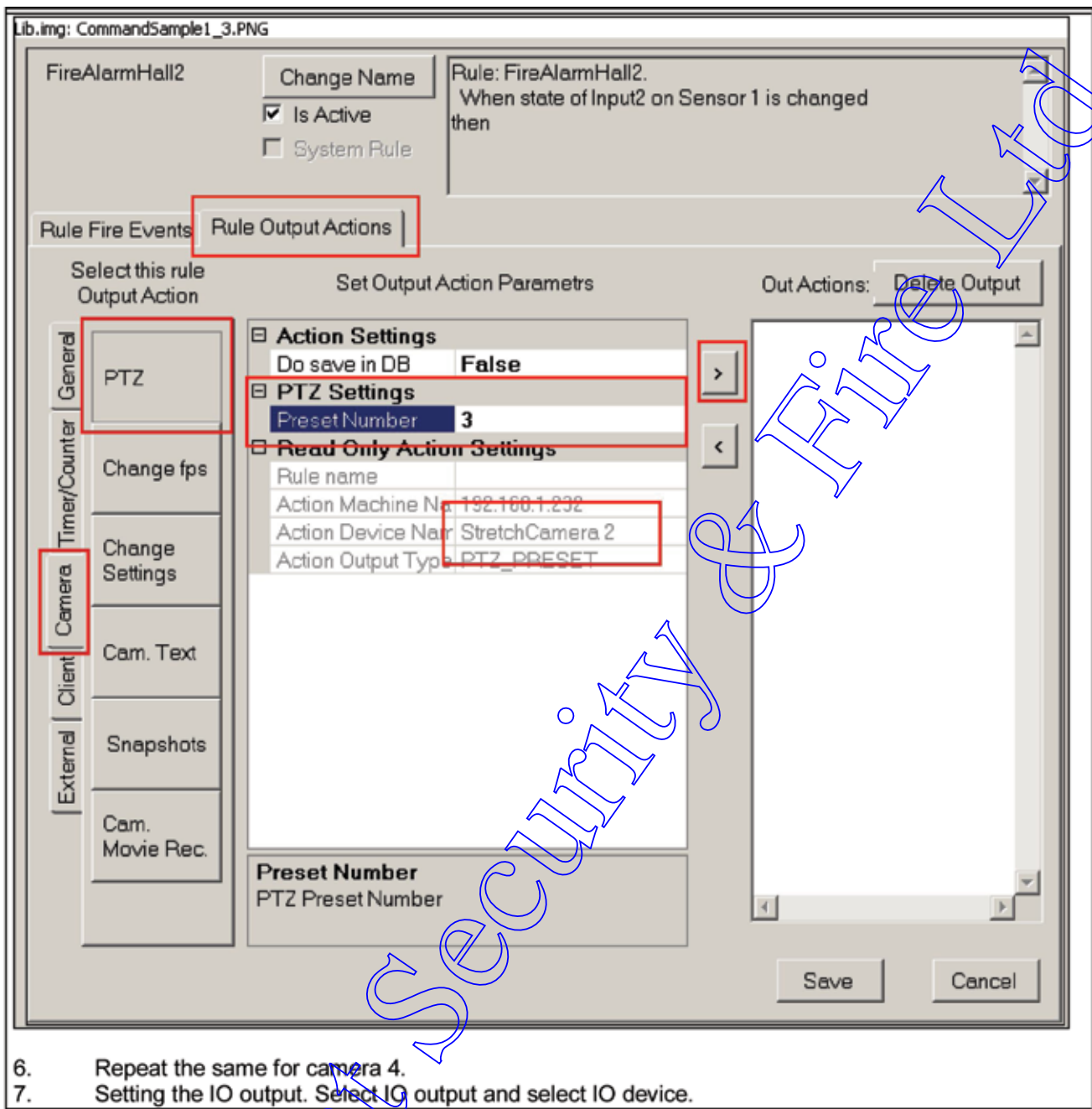
1. In Configurator select Advancer-> Rules
2. Press "Add Rule" button
3. Enter rule name

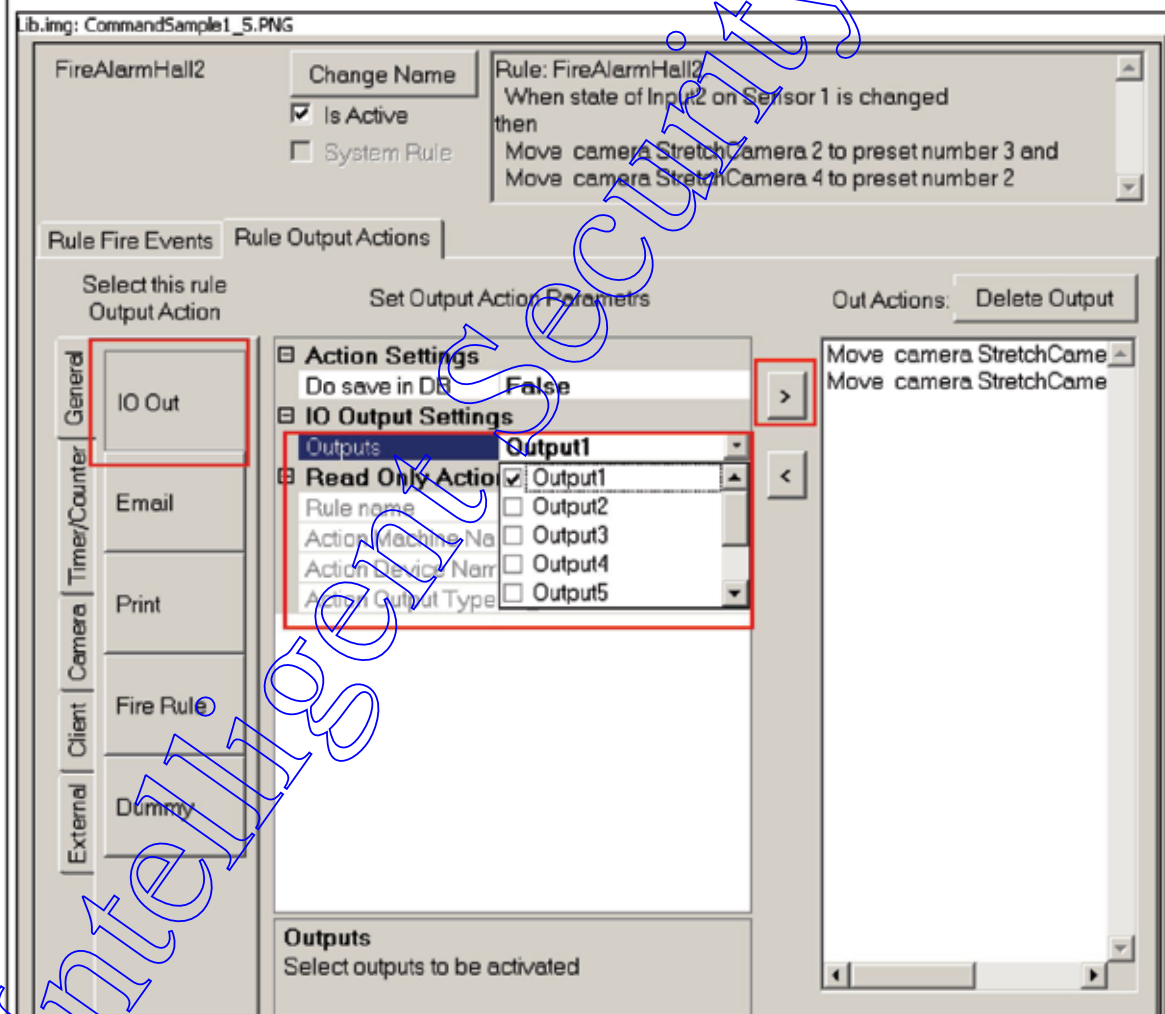
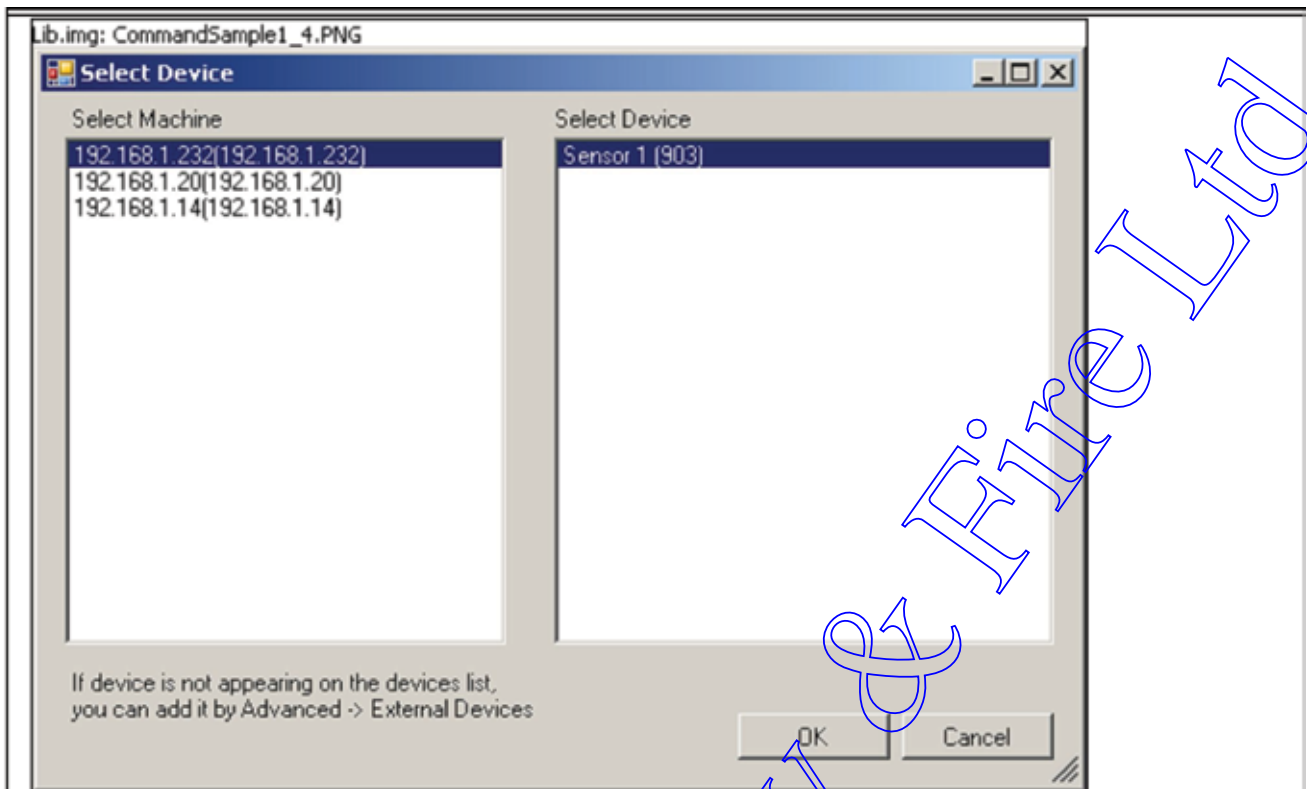


4. To setup and firing input press "IO input" button and select Input

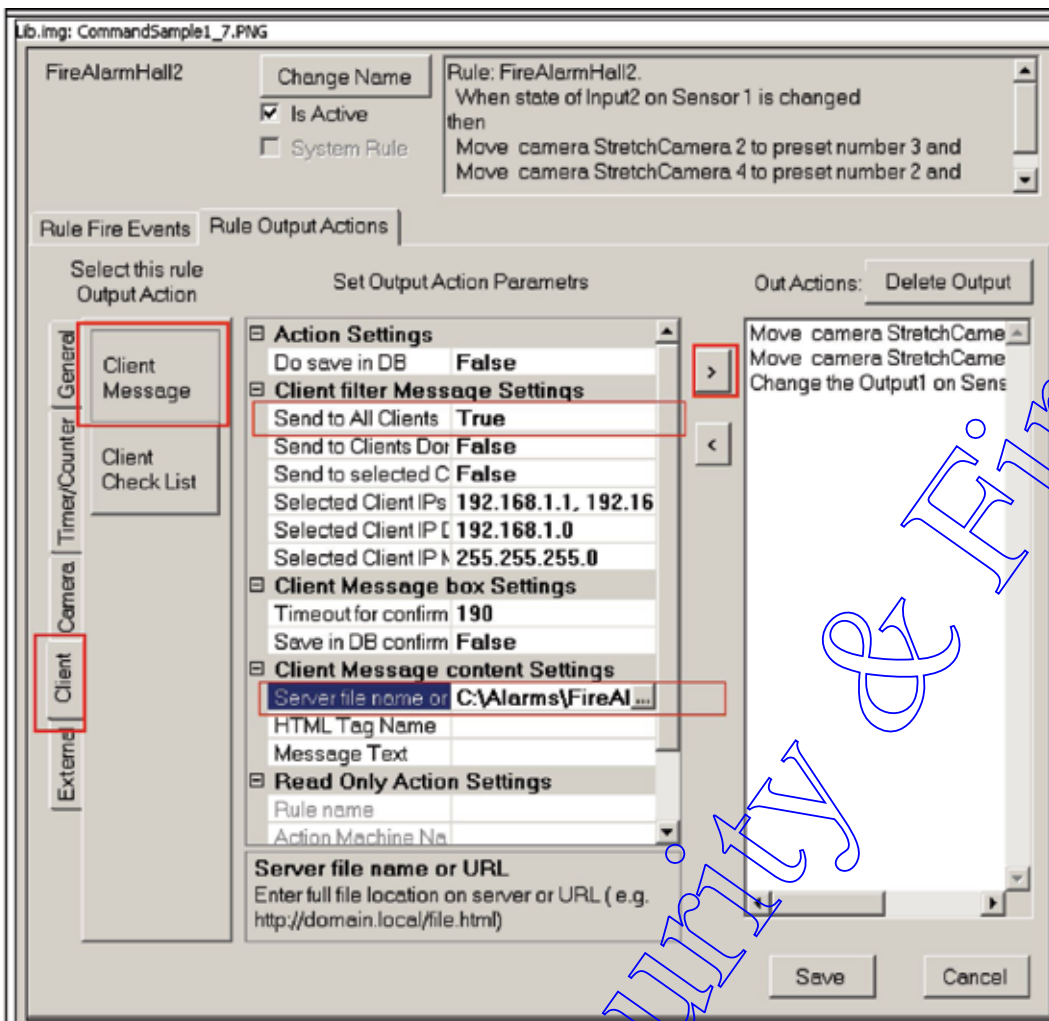


5. Select Output actions and select PTZ button and after selection camera select preset number. To confirm press a ">" button.

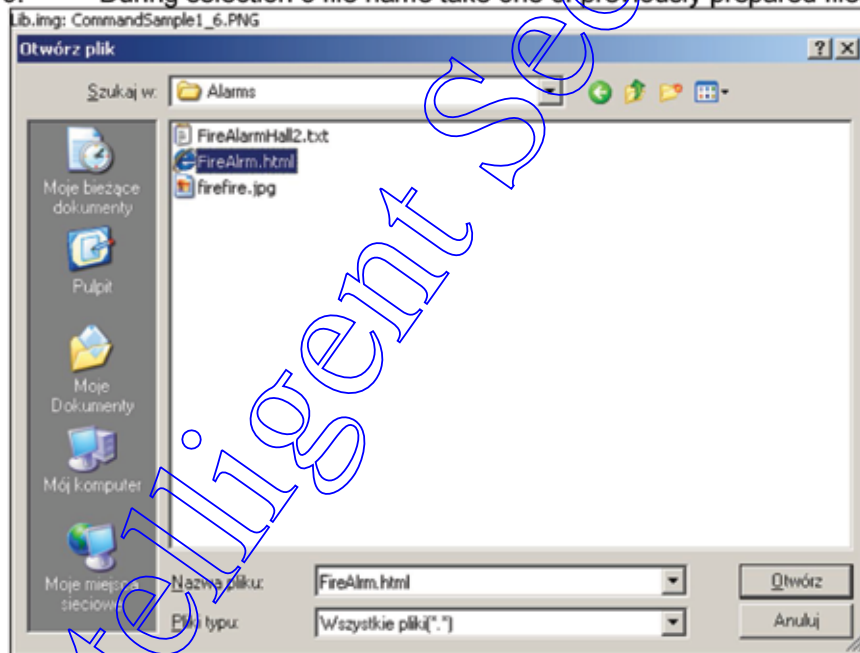




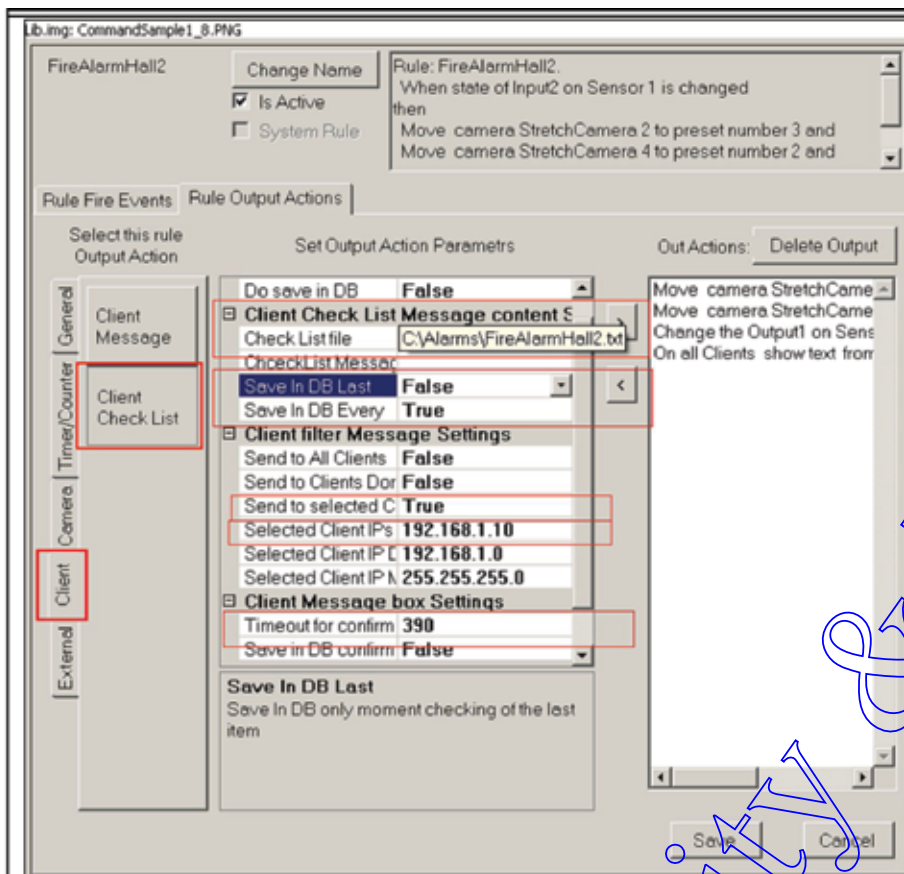
8. Setting the common message to all clients (there will be a html message)



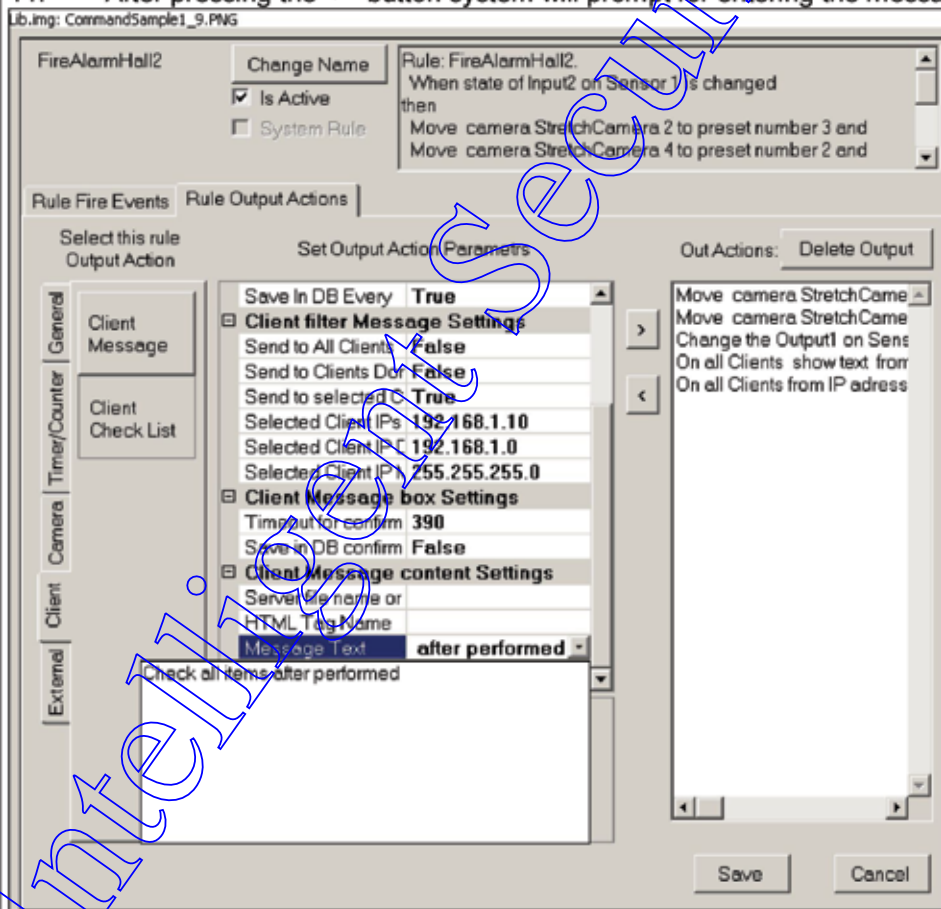
9. During selection of file name take one of previously prepared file.



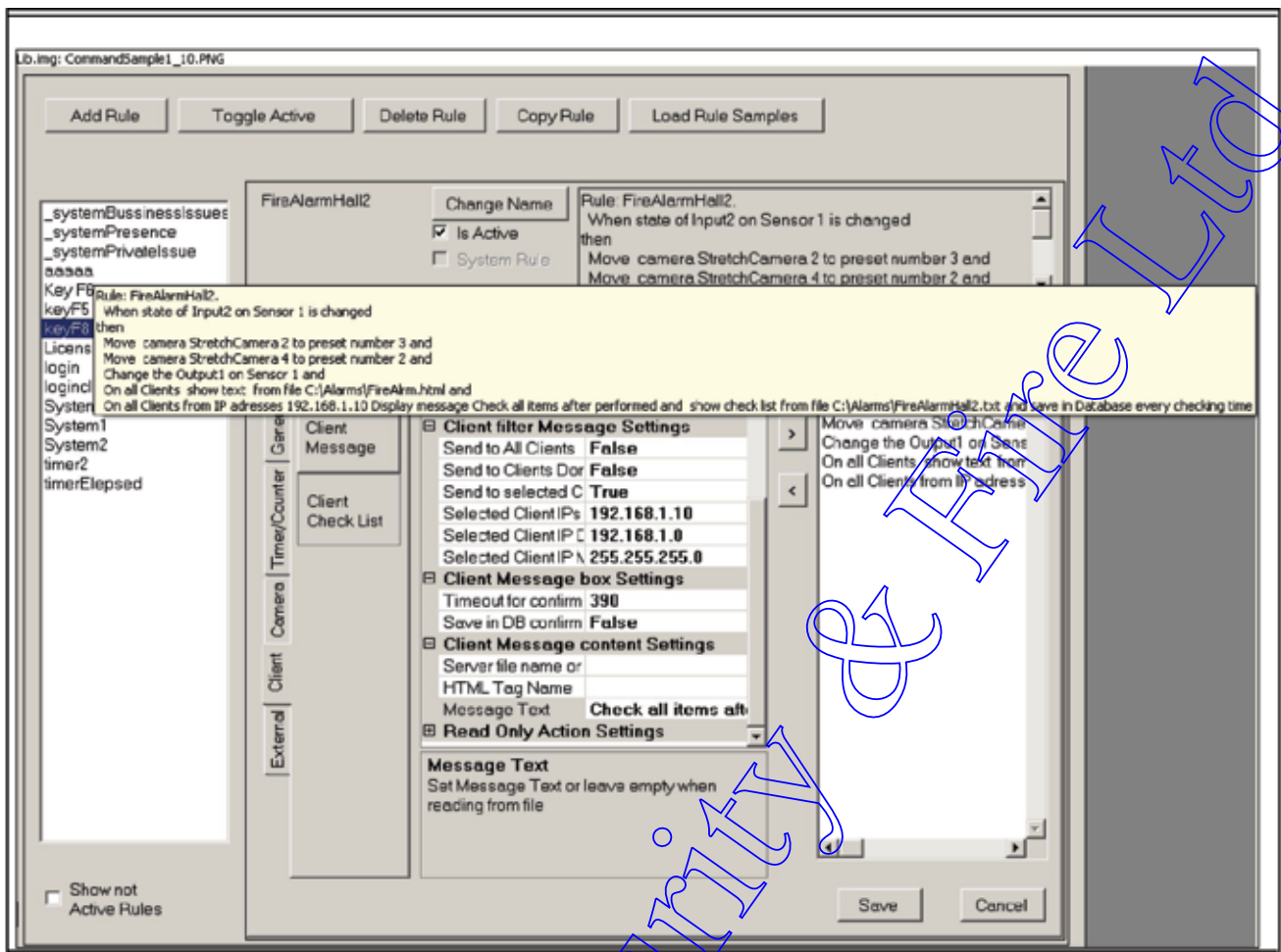
10. Setting an alarm escalation message.
Set Check list message file,
select only IP listed and enter IP
and change total time for confirmation.



11. After pressing the ">" button system will prompt for entering the message text. Add the message.



12. Finally we got the entire rule. putting mouse right of the "Change Name" button we can see whole rule description.



- To check the rule, the administrator can temporary add e.g. F4 key as an input event and see the DVR reaction (see in the next sample how to add function button to input rule).

Setup panic button

Setup panic button.

The Panic Button can be used for a single key firing of a set of output actions like starting recording, send email or notify other Clients.

As a panic button we have defined function key F2 and the monostable switch connected to IO BOX.

Description:

There are 3 locations of guard staff with IP addresses = 192.168.1.10 , 192.168.1.11 and 192.168.1.12 In IO Box 1, input 1 is connected to monostable switch located under guard desktop.

F2 keyboard key is assigned as panic button on all locations.

When Panic Button is detected

- all other guard locations can must be alarmed. A message "Panic button pressed on location" will need to appear on the client
- the location where the panic button is pressed needs to be fixed
- an email needs to be send to the manager.

Alarm escalation scenario for location other than panic button:

1. Call the police on phone number 122
2. A call to the panic button location.
3. Send a person to the Panic button location .

Guard concise checking

Guard location checking

Checking a guards location is performed by randomly timed messages sent to the guards DVR terminal asking for them to press the keyboard to confirm their presence.

If the guard fails to press the key in time, then they need to write an explanation of their actions and why they were away from their terminal.

It can happen that a guards duties will cause them to leave the DVR. (e.g. checking entry and exit of vehicles on the site). In this case he can instruct the DVR that he will not be present for some time. (This could also apply if the guard was taking a washroom break or making a drink)

Description:

Every night at various times between 19.00 and 8.00 the DVR operator will have their presence checked in front of the DVR.

If during the night they fail to answer ontime more than 3 times then a

- report to the database will be saved
- their manager will receive an email about their conduct

Printing a series of snapshots after key pressing

Printing series of snapshots after key pressing

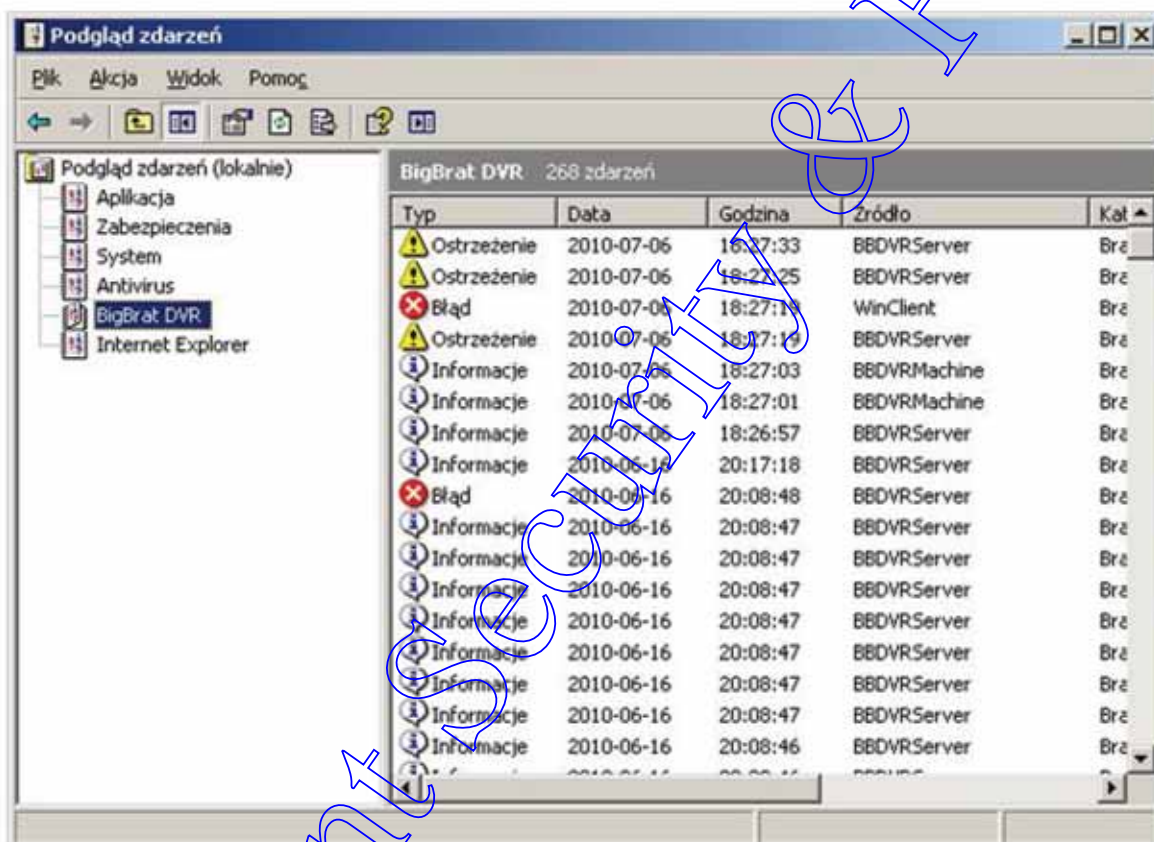
Troubleshooting

Sometimes it can happen that the DVR is not working as we expect it to. To help you solve these issues we have described some procedures below to help you fix the problem. The event log file from DVR and eventually from a remote computer can help.

How to get log files

How to get log files.

1. Login as Administrator (standard password “super”)
2. Plug a USB drive into the DVR
3. Press Start
4. Select Run



5. In the text box write “eventvwr” and press OK
6. Select branch BigBrat DVR
7. Right mouse click on selected branch and select “Save”
8. Select USB drive and save events with any name(e.g ADataServer.evt)
9. Select branches for Application and System and do the same
10. If, in the remote client software, problems appears too, do the same at the client computer
11. Send all files by email to support (zip compression can help)

Frozen client screen

Sometimes it can happen that when the user is trying to click an option on the client's screen it will not react and he/she can hear a short sound. This can happen when the modal window is opened and it is hidden by other windows.

To remedy this just press the "Alt" and "Tab" keys together to see the window selection dialogue.

Keeping the "Alt" key pressed, press and release the "Tab" key a few times to move the focus to the hidden window and then release both keys. Very often it is enough to change the application focus to another application and back to DVR Client, for the hidden window to now appear.

Intelligent Security & Fire

Help version

The contents of this document will be updated periodically following the development of new functionalities.

We reserve the right to change the content of this manual or the software that is described here, without notice to the current owners or users.

Current help version is 0.3 (It means that some pictures are taken from previous versions and are not exactly the same as in software. They will be substituted in the next help versions).

DVR version described is 4.10

Check your suppliers web pages for help updates.

Intelligent Security & Fire Ltd