Cayuga Manual

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1 Legal notice

This document is an integral part of the software shipped by SeeTec (referred to hereinafter as the vendor) and describes how to use and configure the software and the associated components.
The German version of the document is the original version. All translations are based on the German original.

Copyright

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Subject to alterations, errors and misprints.

2 Support

Reporting a software problem by email

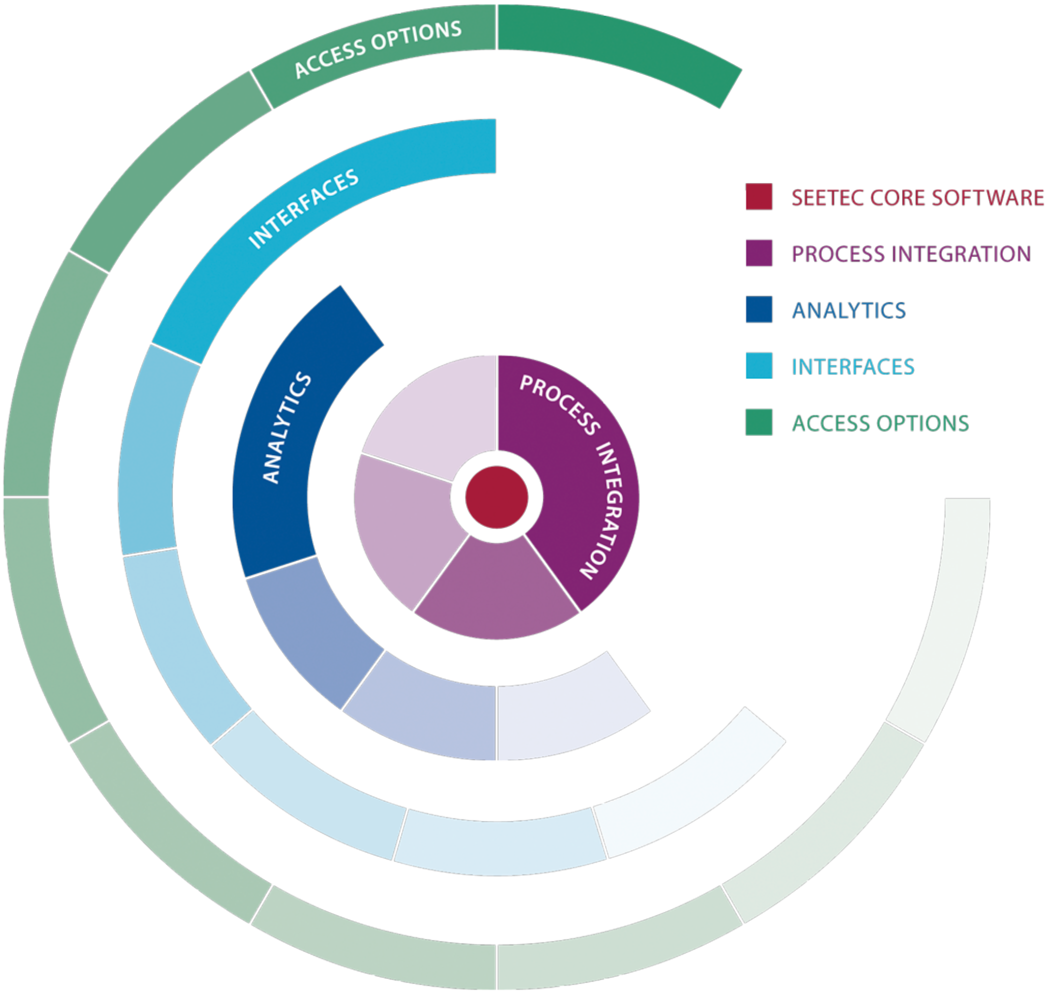
- If you discover a software problem, report it using the helpdesk portal at https://support.seetec.eu.

3 Introduction

Exploit hidden potential with SeeTec!
Many thanks for opting for a SeeTec software solution.
SeeTec is a leading vendor of video management software and has been developing and distributing software solutions for security applications since the year 2000. SeeTec also offers industry-specific solutions for transportation and logistics, retail and trade, financial services and critical infrastructure and cities. These applications support the business processes of our customers and allow hidden potential to be exploited, thus making them more successful.
The Multi Solution Platform system concept provides the basis for this. In addition to the core products SeeTec S50, S100, S1000 and Infinity, it includes a wide range of expansion options and interfaces to numerous third-party systems in the fields of access control and building management, for example. As a modular software construction kit, the Multi Solution Platform allows custom, industry-specific video solutions to be implemented that are infinitely scalable over time.
SeeTec Cayuga, the sixth generation of our video management software, is an extremely flexible series of products suitable both for small-scale projects involving only a few cameras and for complex and extensive installations involving multiple servers and over 1,000 cameras.
In this User's Guide you will find information on the installation and configuration of the Cayuga software and an overview of the frequently used functions.

Product lines

- SeeTec Cayuga S50/S50X: This is an attractively priced yet powerful entry-level solution for small-scale projects involving up to 50 cameras.
- SeeTec Cayuga S100: This is the SeeTec solution for medium-sized installations. It allows intelligent video analysis to be used and third-party systems to be integrated.
- SeeTec Cayuga S1000/S1000X: This is the successor to the SeeTec Enterprise Edition – for projects involving up to 1,000 cameras. It allows distributed and virtualized security infrastructures to be managed.
- SeeTec Cayuga Infinity: This is the flagship of the SeeTec Cayuga product series, offering the most extensive functional scope. There is no limit on the size of the projects that can be implemented.


ACCESS OPTIONS
INTERFACES
ANALYTICS
PROCESS INTEGRATION
SEETEC CORE SOFTWARE
PROCESS INTEGRATION
ANALYTICS
INTERFACES
ACCESS OPTIONS

4 Functional overview

Cayuga consists of various services that communicate with each other within a closed network and over the Internet. Installations are possible on multiple computers, and an unlimited number of servers, clients and devices can be added to the system. In addition, the database can be installed at multiple distributed sites (multicore) to ensure network independence.

The system essentially consists of server applications and client applications.

- One or more server applications manage the connected devices and databases, providing the clients with the required data.
- A client application has a user interface that makes one or more modes available to the user (see below). Multiple client applications can access a single server application.

Surveillance mode

In surveillance mode the live pictures of all of the connected cameras and the incoming alarms are displayed. The cameras can also be controlled here. In addition, it is possible to search the image data on the basis of specific criteria.

Archive mode

In archive mode the recorded image and event data (e.g. alarms) is displayed. The recordings can be searched and exported.

Event analysis

In event analysis mode the events that occur (e.g. alarms and user logins and logouts) are displayed and can be analyzed.

Configuration mode

All settings and adjustments the client makes to the system are made in configuration mode. These include, for example, multiple configuration of video sources (e.g. cameras), user authorization management and user interface settings.

5 Installation

Information on installation

- Multiple VB scripts are used for the installation, so you should disable any active virus scanners for the duration of the installation.
- Cayuga must not be installed on a compressed drive, since this can result in problems with the database. A drive on which Cayuga is already installed must not be compressed subsequently.
- Direct X is installed during the installation and may carry out a restart in the case of a first-time installation. DirectX is required, for example, for joystick control and MPEG-4/H.264 display. If you receive an error message telling you that DirectX could not be installed, you can install it subsequently. You will find the setup file in the 3rdPartyTools folder on the SeeTec DVD. Use only this version that is shipped with Cayuga.
- Symantec software products (Norton Firewall(TM), Norton(TM) Internet Security, etc.) should not be used on the Cayuga server, since these programs prevent communication between the server services.
- The use of web guards, behavioral monitoring, etc. (e.g. of virus scanners) is not supported.
- The SeeTec AutoUpdater is always installed.

Setup types

- **Native-Client & Serve**r. This installation type installs the client and server modules on the computer (see also Standard installation). The installation of a server and client on a computer is the prerequisite for the installation of further clients or servers.
- **Native Client**. This installation type installs only the client modules (see also Client installation). Following installation, the client must be connected to the network with the server (see also Configuration mode).
- **Distributed server**. This installation type installs only the server on the selected computer (see also Server installation). Following installation, the server must be connected to the system by another computer with a client installed.
- **Custom**. In a user-defined installation, it is possible to install only specific components on a computer (see also User-defined installation)

5.1 System requirements

The performance requirements of the SeeTec server services depend, above all, on the video volume transferred and the storage hardware. Intel® processors should be used. An additional 25 MB of RAM should be available for each camera.
Please note therefore that the hardware requirements depend very greatly on the configuration.
For each server a maximum of 80 devices can be integrated with 32-bit operating systems and a maximum of 250 devices with 64-bit operating systems. Depending on the configuration (high resolution/frame rate), this

number may also be reduced. There can be no more than 250 servers in a distributed installation.

5.1.1 Client (32-bit/64-bit)

Hardware

- Random-access memory (RAM): min. 512 MB
- Processor (CPU): Pentium 4 or better
- Hard disk space: min. 1 GB
- Dedicated graphics card
- Screen resolution: min. 1280 x 1024
- Gigabit Ethernet network connection

Software

- Windows® 7 (Home Premium, Professional, Ultimate)
- Windows® 8
- Windows Server® 2008 Standard, Enterprise
- Windows Server® 2008 R2 Standard, Enterprise
- Windows Server® 2012

5.1.2 Server (32-bit)

Hardware

- Random-access memory (RAM): min. 2 GB
- Processor (CPU): min. Intel DualCore with 2 GHz
- Hard disk space: min. 20 GB and additional storage space for image recording
- Screen resolution: min. 1280 x 1024
- Gigabit Ethernet network connection

Software

- Windows® 7 (Home Premium, Professional, Ultimate)
- Windows® 8
- Windows Server® 2008 Standard, Enterprise
- Windows Server® 2008 R2 Standard, Enterprise
- Windows Server® 2012

5.1.3 Server (64-bit)

Hardware

- Random-access memory (RAM): min. 4 GB
- Processor (CPU): min. Intel DualCore with 2 GHz

- Hard disk space: min. 20 GB and additional storage space for image recording
- Screen resolution: min. 1280 x 1024
- Gigabit Ethernet network connection

Software

- Windows® 7 (Home Premium, Professional, Ultimate)
- Windows® 8
- Windows Server® 2008 Standard, Enterprise
- Windows Server® 2008 R2 Standard, Enterprise
- Windows Server® 2012

5.2 Standard installation

The standard installation installs the system with the client and server on a single system ("Native Client & Server").

► Insert the data carrier in the drive.
If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.

► Double-click `Setup` to start installation.

► Select the installation language.
You can configure the language of the user interface after installation (see also Configuration mode).

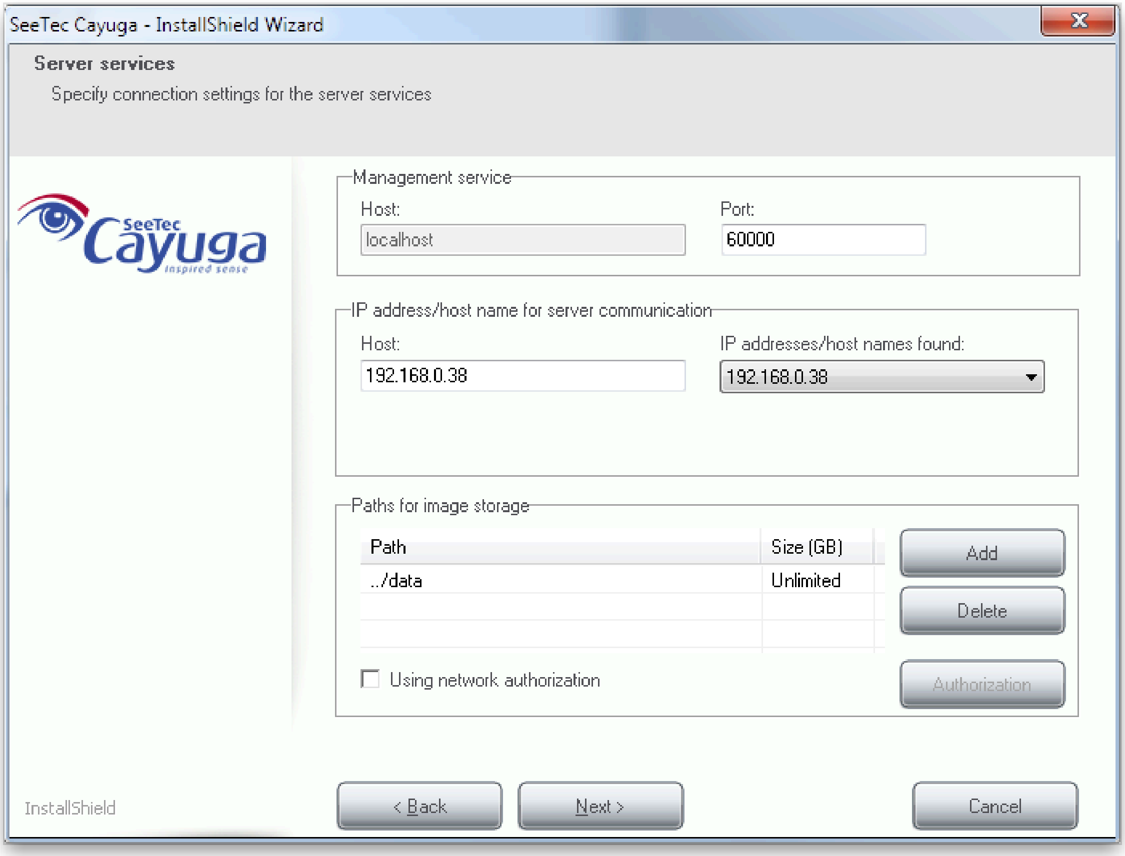
► Click **OK** to start installation.

► Read the terms for end users, and then click **Next**.

► Select the desired product (see also Introduction).

► Select the destination folder.

► Select "Native Client & Server" as the setup type (see also Installation).



► Leave the port number of the management server unchanged at "60000".

► Select a network address so that the client can log in to the server.
The installation program suggests existing network addresses and host names to you.

Neither the IP 127.0.0.1 nor the host name "localhost" may be used for communication with the server.

► In the MDS zone configuration settings, edit the existing path to the image database zone or add further image database zones.

► Click **Next**.

► Click **Finish**.

Cayuga is now installed on your computer. To find out how to start the program and modules, see Login.

5.3 Native client installation

In the client installation, only the client is installed on the computer ("Native Client").

► Insert the data carrier in the drive.
If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.

► Double-click `Setup` to start installation.

- Select the installation language.
  You can configure the language of the user interface after installation (see also Configuration mode).
- Click **OK** to start installation.
- Read the terms for end users, and then click **Next**.
- Select the desired product (see also Introduction).
- Select the destination folder.
- Select "Native Client" as the setup type (see also Installation).
- Click **Next**.
- Click **Finish**.

The Cayuga client is then installed on your computer. To find out how to start the program and modules, see Login.

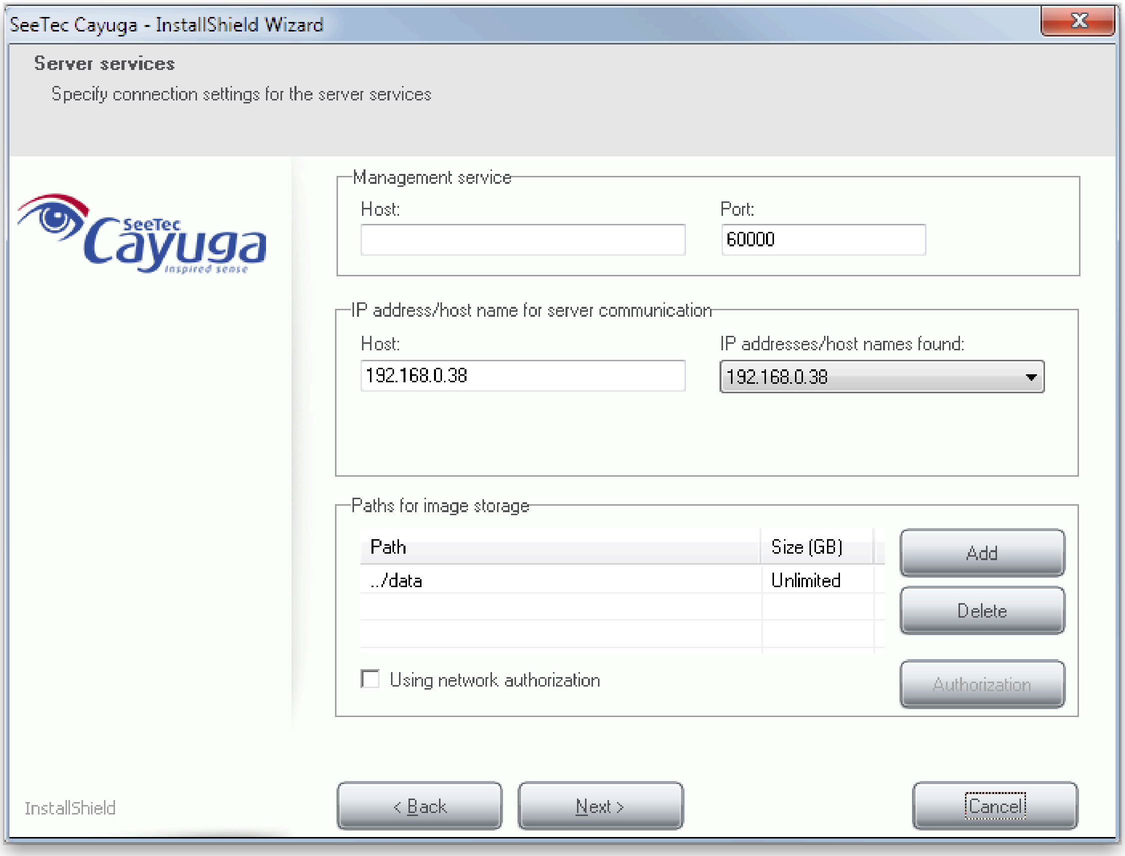
5.4 Distributed server installation

In distributed server installation, the server with the database modules for the image database is installed on a different computer from the already installed client and core server. The distributed server reduces the utilization of the core server because the image database is located partially or entirely on the distributed server.

In order to configure the sever, you need an installed and configured Cayuga client and core server (see Standard installation).

- Insert the data carrier in the drive.
  If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.
- Double-click `Setup` to start installation.
- Select the installation language.
  You can configure the language of the user interface after installation (see also Configuration mode).
- Click **OK** to start installation.
- Read the terms for end users, and then click **Next**.
- Select the desired product (see also Introduction).
- Select the destination folder.

- ► Select "Distributed server" as the setup type (see also Installation).



- ► Specify the IP address of the main SeeTec server as the host in the SeeTec CoreServer area.

Neither the IP 127.0.0.1 nor the host name "localhost" may be used for communication with the server.

- ► Leave the port number unchanged at "60000".
- ► Select a network address for the server.
  The installation program suggests existing network addresses and host names to you.
- ► In the MDS zone configuration settings, edit the existing path to the image database zone or add further image database zones.
- ► Click **Next**.
- ► Click **Finish**.
  The Cayuga server is then installed on your computer.
- ► Start the SeeTec Service Manager in the SeeTec Cayuga folder.
- ► Use the SeeTec Service Manager to start the services.
  The distributed server connects to the main server automatically.

The required ports 60000 - 60008 for communication between the distributed server and the main server must be open.

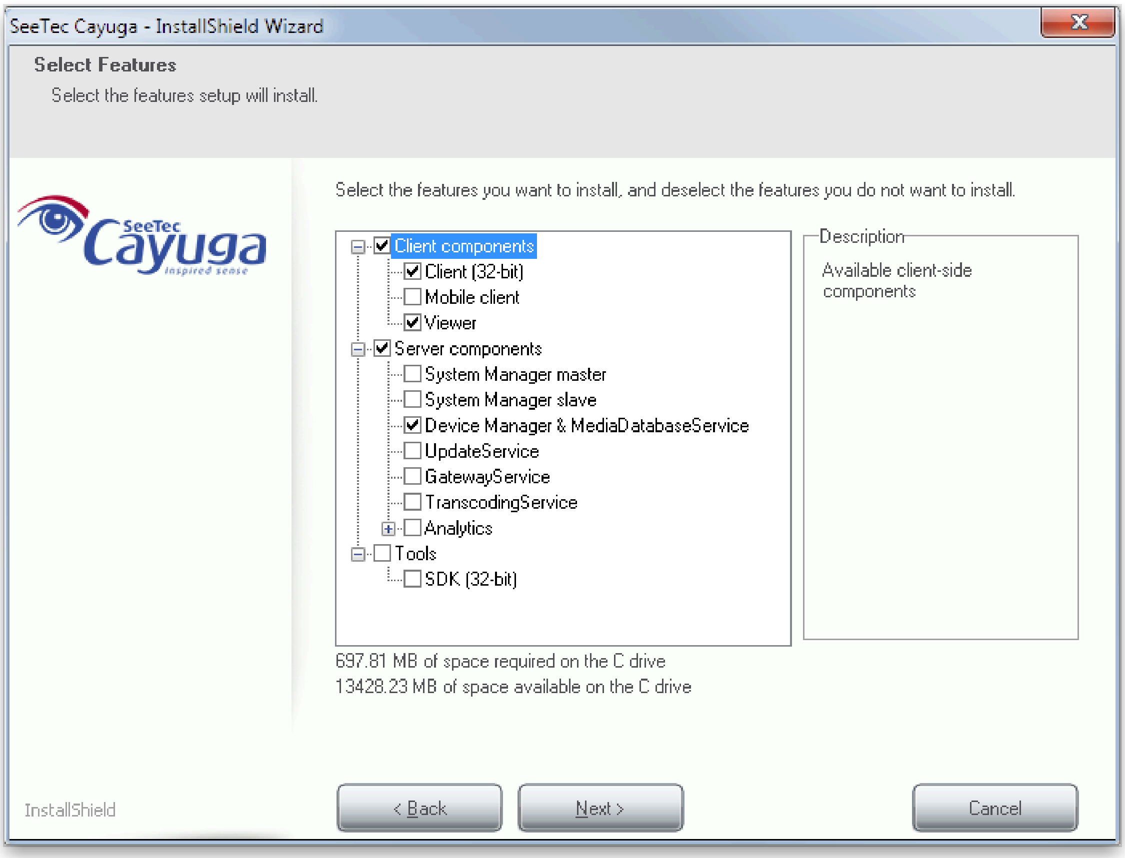
- ► Configure the system with the SeeTec client (see Configuration mode).

5.5 User-defined installation

In a user-defined installation you can only install selected modules. It is also possible to install a further core server in slave mode that serves as a failover and thus increases the reliability of the core server.

To configure the user-defined modules, you require an existing installation of a Cayuga client (see Client installation) and a Cayuga server (see Server installation).

- ► Insert the data carrier in the drive.
  If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.
- ► Double-click `Setup` to start installation.
- ► Select the installation language.
  You can configure the language of the user interface after installation (see also Configuration mode).
- ► Click **OK** to start installation.
- ► Read the terms for end users, and then click **Next**.
- ► Select the desired product (see also Introduction).
- ► Select the destination folder.
- ► Select "Custom" as the setup type (see also Installation).



- ► Select the desired services and features.
  You can deselect services and features that are not required.
- ► Click **Next**.
- ► Click **Finish**.

The modules and services are now installed on your computer.

5.6 Updating

Before a new version of the software for the client and server can be installed, the existing installation has to be removed (see Uninstallation).

- ► Exit the program.
- ► Insert the data carrier in the drive.
  If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.
- ► Double-click `Setup` to start uninstallation.
  A dialog box appears in which you make a selection.
- ► Select "Remove program" and then click **Next**.
  All components of the program except for the configuration settings are deleted from the hard disk and removed from the directory services.
- ► Install the new version (see Installation).
  The existing configuration settings are adopted automatically.

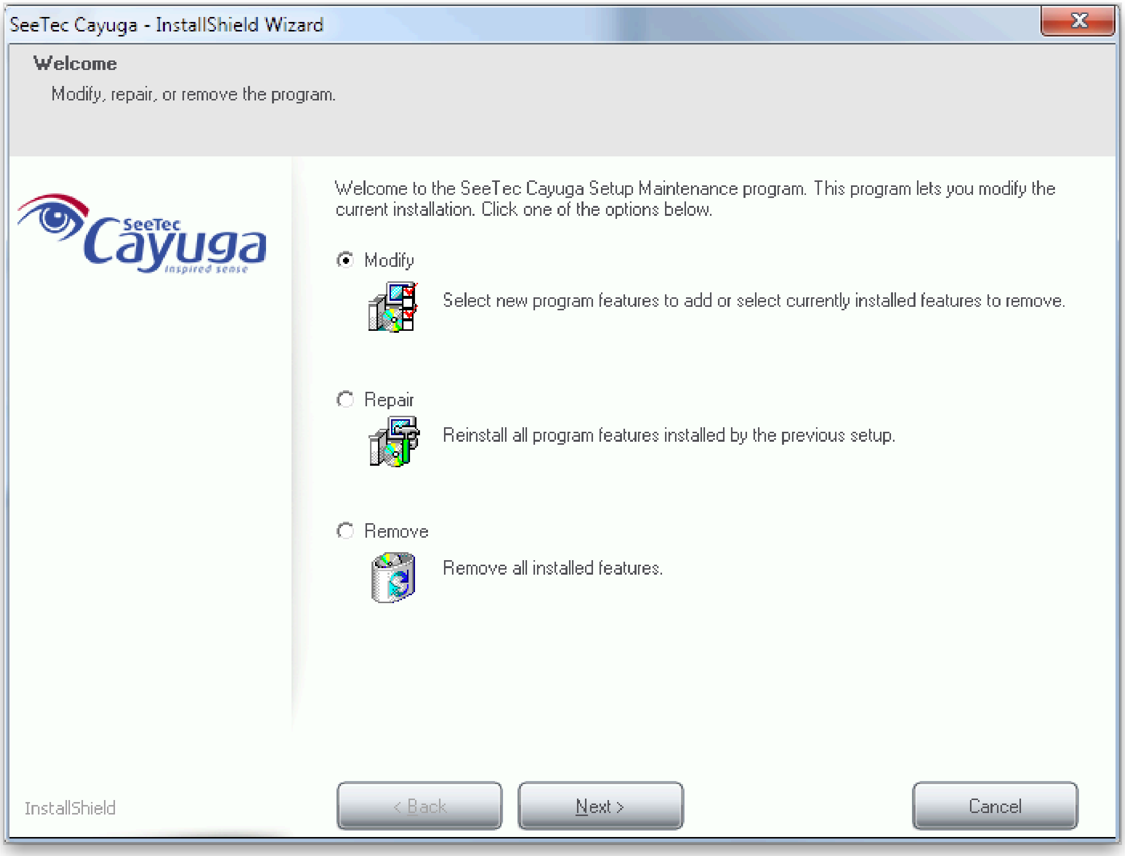
Optional uninstallation and updating

- ► Open the Control Panel and select Programs and Features.
- ► Klicken Sie auf Programm deinstallieren.
- ► Select SeeTec, and then click **Uninstall**.
  All components of the program except for the configuration settings are deleted from the hard disk and removed from the directory services.
- ► Install the new version (see Installation).
  The existing configuration settings are adopted automatically.

5.7 Repair and uninstallation

- ► Insert the data carrier in the drive.
  If you have received a software version, copy it to the desktop of the computer on which the software is installed and unpack the copy.

► Double-click `Setup` to start repair or uninstallation.
A dialog box appears in which you make a selection.



► Select the desired option.
► To update the program, select "Modify" and then **Next**.
This allows you to carry out a user-defined installation, in which you can install and uninstall the modules and services you choose (see User-defined installation).
► To repair the program, select "Repair" and then **Next**.
Cayuga tries to repair and reinstall any damaged program components itself.
► To remove the program from the hard disk, select "Remove" and then **Next**.
All components of the program except for the configuration settings are deleted from the hard disk and removed from the directory services.
► To completely remove all traces of the program after uninstallation, delete the remaining SeeTec folders in C:\Program Files manually.

Optional uninstallation

► Open the Control Panel and select Programs and Features.
► Select SeeTec, and then click **Uninstall**.
All components of the program except for the configuration settings are deleted from the hard disk and removed from the directory services.
► To completely remove all traces of the program after uninstallation, delete the remaining SeeTec folders in C:\Program Files manually.

6 Login

Once the system is installed, you have to log in on the client in order to use the installed services.

► Start **SeeTec Surveillance** in the **SeeTec Cayuga** folder on the Start menu.

► For the default user, enter the name of the **user** and the **password**.

Enter the password carefully. The system draws a distinction between upper and lower case.

► Apply your entry by clicking the blue check mark.
The client is started in surveillance mode (see Surveillance mode).

Logging in for the first time

If you are logging in for the first time (i.e. without installing Cayuga beforehand), you have to modify the default user password.

► Enter your new password.

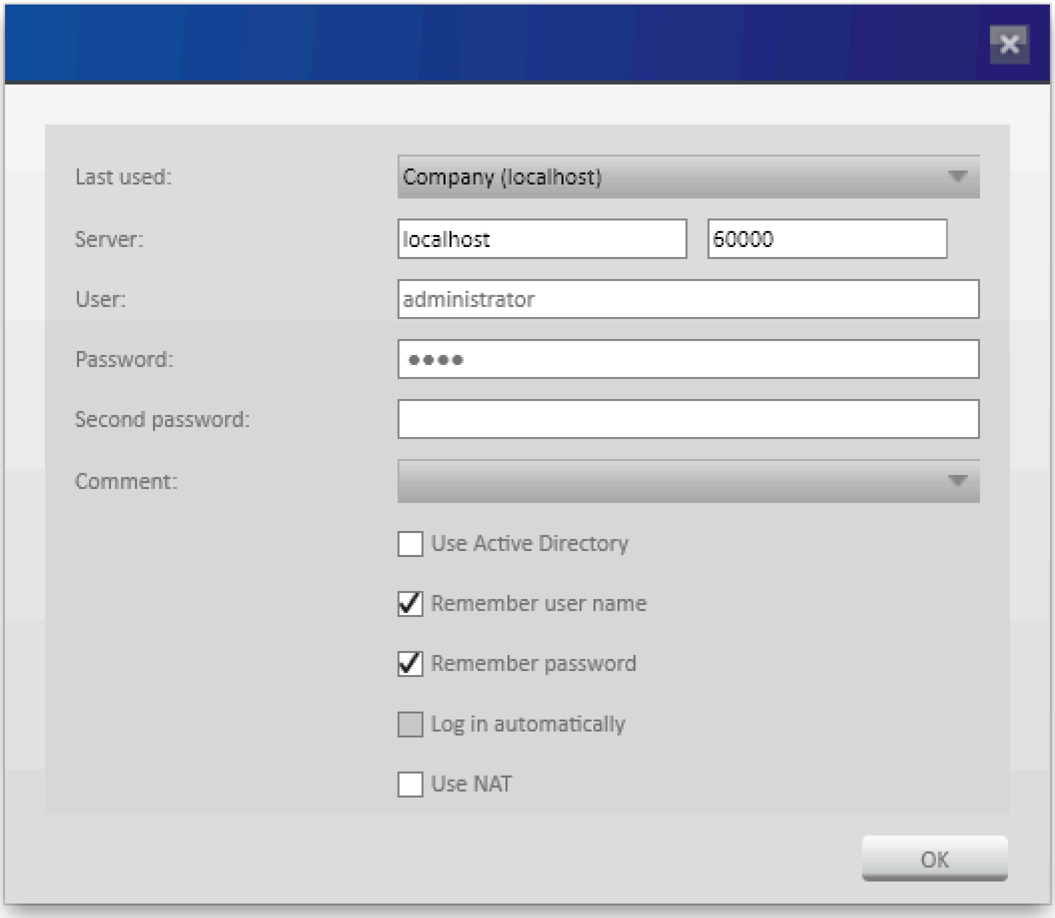
► Deselect **Enforce secure password** if you do not require increased password security (see also Configuring users).

► If necessary, enter a second password (see also Configuring users).

Advanced options

In the advanced options you can configure additional user management functions or log in as a user with two passwords.

► Click **Advanced options** in the login window.



► From the drop-down list, you can select a different **server** in the network.

► Enter a **second password** if you wish.

► To access an Active Directory service in order to manage users, select **Use Active Directory**.

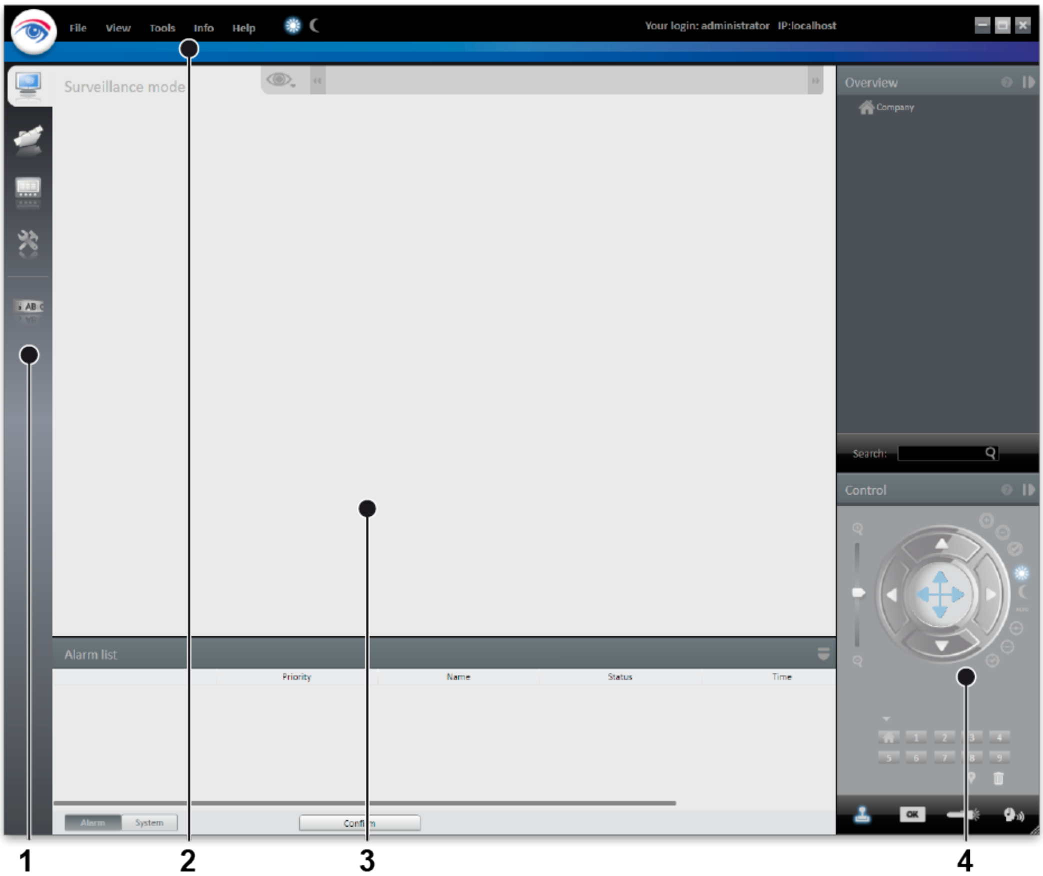
► Select **Remember user name** and **Remember password** in order to avoid having to specify the user data. The system enters the specified user name and password in the login window.

► Select **Log in automatically** to go straight to the user interface when the program starts up.

► Select **Use NAT** in order to use the client to access a different server over the Internet.

If you forget the administrator's password and haven't added any users to the administrator group, it is no longer possible to access the system configuration settings.

7 User interface

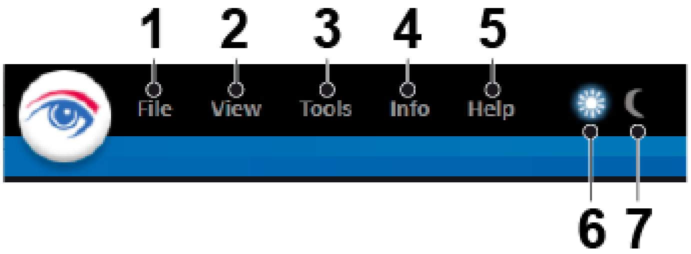


The Cayuga user interface is subdivided into four different sections:

- The mode bar (1), which allows you to select the modes (see Mode bar)
- The menu bar (2), which allows you to choose functions regardless of the mode selected (see Menu bar)
- The main window (3) or "stage", which displays the mode functions selected and – depending on which mode is selected – the **Information** tab in the lower part of the window
- The control bar (4), which contains the tabs for controlling the contents of the main window (see Control bar)

7.1 Menu bar

7.1.1 The menu bar



The menu bar contains the menus you can use regardless of the mode you have selected:

- **File** (1). Changes the settings of the client and switches the user (see File).
- **View** (2). Manages the settings of the connected monitors and the video wall as well as the LPR master data (see View).
- **Tools** (3). Activates the write protection of recordings and multiple export of image data (see Extras).
- **Info**(4). Displays information on the system and license (see Info).
- **Help** (5). Calls the Help system and provides options for solving problems (see User's Guide).
- **Screen background** of the main window (bright) (5). This function makes the screen background of the main window brighter.
- **Screen background** of the main window (dark) (6). This function makes the screen background of the main window darker.

7.1.2 File

File

Client configuration

On this menu you can adjust the client's settings.

You can only modify the client configuration if you have administrator's rights.

► Choose **Client configuration** from the **File** menu, and then change the client's settings (see Client configuration).

Change language

The Cayuga user interface is shipped in multiple languages:

► Choose **Change language** from the **File** menu, and then select the desired language.
If you select the **Windows default**, the operating system's language environment is used automatically.

► Click **OK** to apply your selection, and then restart the client.

Change password

You can subsequently change the user's password.

- Choose **Change password** from the **File** menu, and then enter the new password for the current user.
- Also enter the security password (see also Login > Advanced options).
- Click **OK** to apply the password, and then restart the client.

Change profile

If multiple profiles are used (user profile, group profile, etc.), you can change to a different profile. The profiles can be managed in configuration mode (see Profiles).

It is not possible to change profile when you are in configuration mode.

- Select **Change profile** and then the desired profile.
- Click **OK** to confirm.
  The current profile is deactivated, and the selected profile with its user rights is activated.

Change user

If multiple users are created, you can change to a different user.

It is not possible to change user when you are in configuration mode.

- Choose **Change user** from the **File** menu, and then select the user.
- Click **OK** to confirm your selection.
  The current user is logged out, and the new user has to log in with a user name and password (see Login).

Switch installation

If you have installed multiple independent SeeTec servers, you can connect to a different SeeTec server.

It is not possible to connect to a different SeeTec server if you are in configuration mode.

- Choose **Switch installation** from the **File** menu.
- Enter the server name or its IP address and the user name and password.
  The current installation is terminated, and the selected installation is started.

Add SeeTec installation

Adds further servers to the existing client-server installation in order to provide access to the devices connected to them.

Requirements

- The same server version has to be installed on all servers to which a connection is to be established.
- All of the servers must support multi-installation login. A license must be available for SeeTec multi-installation login.
- Choose **Add SeeTec installation** from the **File** menu, and then select the desired server.
- If the server is not displayed, select **New SeeTec installation**, and then enter the IP address or host name of the server.
- Click **OK** to confirm your selection.

Disconnect SeeTec installation

Disconnects connected installations from the current system.

- Choose **Disconnect SeeTec installation** from the **File** menu.

- ► Select the SeeTec installations in the list that you want to disconnect from the current system, and then click **OK**.

Tidy up list of SeeTec installations

Tidies up the list of SeeTec installations most recently called by the client (see also Advanced options).

- ► Choose **Tidy up list of SeeTec installations** from the **File** menu.
- ► Select the SeeTec installations in the list that you no longer want to be available for selection the next time you log in on the client, and then click **OK**.

Count analysis

The count analysis provides a graphical analysis of the objects (people or vehicles) that have been in the selected area or have passed the tripwire.

- ► Choose **Count analysis** from the **File** menu.
- ► Enter a **name** for the query.
- ► Select the **channel** and **rule** for the filtering of the results.
- ► Specify the **start time** and **end time** for the query.
- ► Select the **interval** for the query.
- ► Select **expert mode**, if appropriate, and then specify the query criteria.
- ► Click the **New query** button to start the query.
- ► Select a **chart type** for displaying the result of the query.
- ► Change to the **Chart** tab, select **With input data** to print the chart with numerical values, and then click the **Print** button to print the selected query.
- ► Select the export format, and then click the **Export** button to export the selected query.

Client configuration

The settings of the client are stored locally in the profile. They can only be changed by a user with administrator rights.

Network

- ► If the server does not respond quickly enough, increase the time limit in **Timeout for server requests** (in seconds).
- ► Specify the UDP or TCP port for **image transmission** to transfer the streams of images from the cameras from the SeeTec server to the client.
- ► Limit the bandwidth if you are accessing servers with a low-bandwidth connection.
- ► Select the CameraManagement by double-clicking it.
- ► Limit the maximum bandwidth used to avoid overloading the network.

Client

- ► Select **Suppress warning about time difference to server** to suppress a warning if there are more than ten seconds of time difference between client and server.
- ► Select **Suppress warning if screen resolution is too low** to suppress a warning if the screen used does not have a high enough resolution (see System requirements).
- ► Select **Delete entities without confirmation in Configuration Mode** to delete the entity (camera, time template, alarm, button, etc.) without receiving a request for confirmation when you click the Delete button in configuration mode.

- Deselect **Do not display warnings in configuration mode if there are discrepancies in the streaming settings** to suppress a warning if there are discrepancies in the settings for standard and alarm recording in MPEG-4/H.264 recording, resulting in recording losses.
- Make entries for **Maximum number of alarms in archive mode** and **Maximum number of events in event analysis mode**.
- For **Alarm sequence**, specify whether more recent or older alarms are to be displayed first for processing in the alarm list.
- Select **Stop low priority alarms when a new alarm is activated** if a new alarm is activated in order to also adjust the alarm handling of low-priority alarms.

VoIP and SIP

- Specify the port number of the **SIP base port** (the default is "5060").
- Specify the port number of the **Audio RTP port** (the default is "7000").
- Select the client's **audio input device** and **audio output device**.
  Regardless of this, incoming calls go via the operating system's default audio output device.
- Select **Use echo and noise suppression** to improve the sound quality.
- Select **Use microphone amplifier** to increase the volume of the input device.
- All of the existing SeeTec installations are displayed in the column on the left of the **Specific settings for SeeTec installation** group.
- Select the desired SeeTec installation, and then select the settings.
- Select **Use keep-alive packages**, and then, if necessary, adjust the intervals at which the client is to log in to the SIP or VoIP server.
  The default value for **Keep-alive interval** is 10 (s), and for **Registration interval** it is 3600 (s).
- Enter the data stored on the SIP server in the SIP user data for **SIP user name** and **SIP password**.
- Enter any name for **Participant name**. The participant name is displayed as the called participant in archive mode.
- Enter the IP address of the PBX server for **Registration server** and **Outgoing proxy**.

Input devices

All input devices such as joysticks that are connected to the system and available before startup of the SeeTec client are displayed. Any combination of devices is supported. Every device can be configured independently of the others.

- Select from the list the device you want to configure.
  The functions of the joystick are listed on the right-hand side of the dialog box.
- Activate the device.
- If necessary, activate the z-axis (depends on the hardware).
- Press the joystick button to which you want to assign an action, and then select the desired action.

Restrictions and special cases

- The jog dial and shuttle wheel are supported in archive mode for the Axis T831x control unit.
- Up to 112 virtual buttons can be configured for the Axis T8312 control unit. To this end, select the **virtual buttons** option.

- The control unit has 9 buttons.

► If you want to assign an action to button 56, press button 5 and 6 in rapid succession, and then select the desired action.

► Specify for **Timeout (ms)** the time period within which the two buttons must be pressed.

The Videotec DCZ control unit is also supported with the following restrictions:

- Only 32 of 38 buttons can be used.
- Only the outer job dial can be used in archive mode.

7.1.3 View

The settings are stored locally and have to be made on each client and for each Windows® login profile.

Adding a window

The "Add window" function allows you to distribute the display of the main window ("stage") to multiple connected monitors.

► Choose **Add window** from the **View** menu.
A second window opens.

► Move the window to the connected monitor.
The client saves the setting and makes it available when you log in again.

► To use multiple connected monitors, repeat these steps.

Display agent

The SeeTec display agent allows you to use standard PCs and monitors to create a full-fledged remote-controlled video wall.

Keeping the aspect ratio

► Select **Keep aspect ratio** to adapt the camera image to the layer window.
The camera image may appear distorted.

► Select **Keep aspect ratio** again to display the camera image with the original aspect ratio.

Video wall dispatcher

The video wall dispatcher can control associated monitors dynamically. You can drag and drop camera images, layers, maps and web pages to display them on video walls. The video wall dispatcher allows camera images and layers from patrols and alarm scenarios to be diverted to the video walls.

LPR master data editor

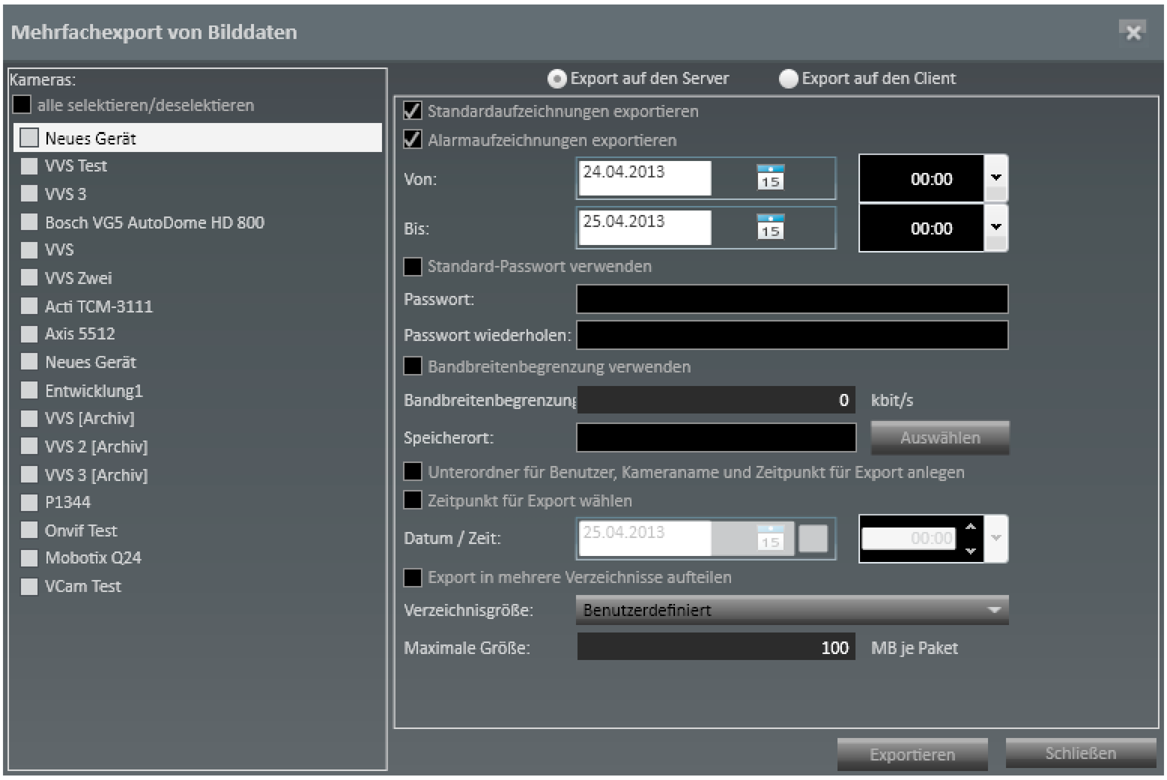
In the LPR master data editor you can add, modify or delete license plates.

7.1.4 Extras

Multiple export of image data

If you want to export a large volume of archived image data in a single operation, you can specify the settings required for this on this menu.

- Choose **Multiple export of image data** from the **Extras** menu.



- Select or deselect either all of the installed cameras or specific cameras.
- Specify whether the image data is to be exported to the server or the client.
- Specify whether only standard recordings are to be exported or whether alarm recordings are to be exported as well.
- Specify the time period for the image data to be exported.
- To secure the exported image data using the default password, select **Use default password.**
- If you want to use your own **password** instead of the default password, enter this password and then enter it again.
- If the image data is to be exported to a client that has a low-bandwidth connection, select **Use bandwidth limit** and specify the bandwidth limit.
- Specify the storage location of the exported image data, and then confirm your selection by means of **Select**.
- To store the exported image data in separate folders by user, camera name and time of export, select **Create subfolders for user, camera name and time of export**.
- To carry out the export at a specific time, select **Select time for export**, and then specify a date and time for the export.
- To store the exported image data in folders of approximately the same size as the expected file size, select **Split export into multiple folders** and specify the **folder size** and **maximum size** of the image file.
  Image data that exceeds the specified size is split into multiple files so that they can be stored on data carriers such as CD-ROMs or DVDs.
- To carry out the export immediately, click the **Export** button.
- **Close** the window.

Removing write protection from recordings

Recorded image data can be write-protected to prevent any important data from being automatically overwritten.

- ► Choose **Write protection of recordings** from the **Extras** menu.
- ► Select the cameras to be checked to ascertain whether there is a write-protected recording area.
- ► Click the **Start query** button to display any write-protected recordings of the selected cameras.
- ► Select the areas in which write protection is to be removed from recordings.
- ► Click the **Remove write protection** button.
- ► **Close** the window.

7.1.5 Info

Activating a license online

You cannot activate or download the licenses unless you have a connection to the Internet.

- ► Choose **Activate license** from the **Info** menu.
- ► Select **Personalize license** (to register it with your user data) if the license has not yet been registered.
  Or
- ► Select **Download license** if an update has been carried out and a new license is therefore required.
- ► Enter your user data or installation number (INR), and then click **OK** to apply your entries.
  The client connects to the SeeTec registration server and transfers the license key to the computer.

Displaying a license

- ► Choose **Display license** from the **Info** menu.
  Information on the license is displayed, such as the maximum number of cameras/devices that can be used, the concurrent client connections or the validity period of the license (if it is a demo license).

7.1.6 Help

User's Guide

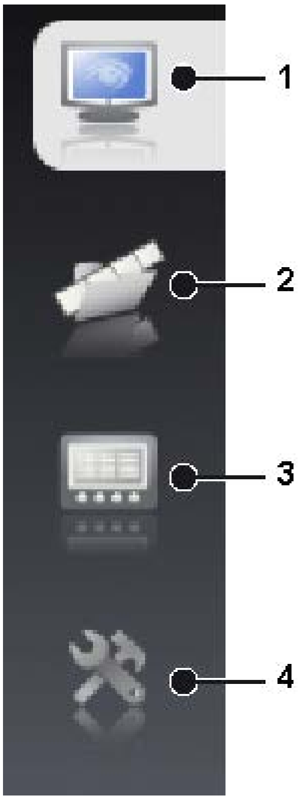
Starts the Help system on the starting page. In addition, there are also links for accessing specific topics directly from tabs and dialog boxes.

Start problem recording

If problems occur during operation, you can use the "Start problem recording" function to record, comment on and save them.

- ► Choose **Start problem recording** from the **File** menu.
- ► Select **Start recording** and carry out the steps that led to the problem.
- ► As soon as you have carried out these steps, stop recording.
- ► If you want to add a comment to the recording, click **Add comment** (e.g the time, behavior of the client and devices, etc.).
- ► Specify where the file is stored.

7.2 The mode bar



The mode bar allows you to switch between display modes.

- **Surveillance mode** (1). When you log in, the system starts up in surveillance mode (see Surveillance mode).
  The number of alarms that have occurred is indicated by a number in the icon.
- **Archive mode** (2). Here you can manage and display recorded image data and search for alarm events (see Archive mode).
- **Event analysis** (3). The event analysis facility gives you a list of the events that have occurred (see Event analysis).
- **Configuration mode**(4). Configuration mode is for managing and configuring the video sources, users and locations (see Configuration mode).

7.3 The control bar

The control bar contains the tabs required, depending on the mode, for controlling the display or for configuration. You will find descriptions of the tabs in the sections describing each mode. Tabs cannot be moved. They remain anchored in position on the control bar.

Showing/hiding a tab

- ► Click the gray triangle in the upper-right corner of a tab to hide the tab on the right-hand edge of the screen.
  Once the last tab on the control bar has been minimized, the available size of the main window increases.
- ► Click the gray triangle on the tab on the right-hand edge of the screen to show the tab.
  The control bar then also appears again.

Search

At the lower end of the control bar, there is a search function that helps you to find the contents of the active control bar more quickly.

- ► Enter the term you are searching for, and then click the magnifying glass icon.

8 Surveillance mode

Surveillance mode allows live images, alarms and patrols to be displayed and PTZ cameras and other peripherals such as door openers to be controlled (see also User interface).

- ► To change to surveillance mode, click the **Configuration mode** icon on the mode bar.

Camera operation

You can control the functions of the camera using the control bar (see Camera image controller) or using the controls on the **Control** tab (see Control).

- ► To operate a camera, select a camera in the main window.

You can recognize a standard recording by the green point that appears on the lower right edge of the camera image in surveillance mode. You can recognize an alarm recording by the red point that appears throughout the recording.

Tabs

The tabs allows you to set the layers of the existing cameras (see Main window).

Control bar

The control bar allows you to perform the following actions:

- ► Move the selected PTZ cameras and change the image detail using the digital zoom function (see Control)
- ► Select the cameras created for each location (see Camera overview)
- ► Search for specific installed cameras

Alarm list

The **Alarm list** displays the alarms that have occurred in the order in which they occur. The most recent alarms are displayed first.

- ► Switch between alarm and system messages by selecting the **Alarm** or **System** button.
- ► Click the column headings to sort the alarm or system messages by the column category.
- ► Click the heading of the **Time** column to sort the alarm in ascending or descending order by the time of their occurrence
- ► Click the gray triangle in the upper-right corner of the alarm list to minimize the tab on the right-hand edge of the screen.
- ► Click the gray triangle on the tab on the right-hand edge of the screen to show the tab.

8.1 Main window

The main window for displaying the camera and object images is sometimes known as the "stage" (see also User interface). The main window displays up to 20 layers at the same time. The layers can be arranged evenly or with multiple larger and smaller images so that the main layers are always available in a larger layer.

Depending on the setting made, alarms that occur are displayed in a separate message window ("toast messages").

Creating layers

- ► On the title bar in surveillance mode, click the **eye** icon to display the desired display type.
  The selected display type is shown on a tab next to the eye icon.
- ► Click the cross on the tab for the display type to close it again.
- ► Select **Add layer** to display a further camera layer.
- ► Select **Open layer in new window** to display the new layer on a second monitor without layer tabs (see Layer).
- ► Select **automatic layer switching** and the desired interval to switch between the display types automatically after a certain interval.

Automatic image switching is stopped in the event of an alarm scenario and has to be restarted.

- ► Select **Close all layers** to close all open layers.
- ► Select **Close layer** to close the current layer.

Displaying objects

- ► To create the desired arrangement of layers, navigate to the desired location on the Overview tab.
- ► Open a layer.
- ► Drag the selected object to the desired position in the main window.

8.2 Camera image controller

You work with the images of the connected and configured cameras directly in the layer in the main window ("stage"). These functions refer only to the control options offered by the software.

PTZ cameras are operated using the controller.

- **Zoom** (1). Enlarges the image detail with the help of the digital zoom function. The image detail is enlarged or reduced in size using the scroll wheel on the mouse.
- **Pan**(2). Moves the image detail in the layer. The image detail can be changed using the mouse pointer.
- **Archive**(4). Shows the pictures of the most recently saved interval. The length of the interval is set in the camera's configuration settings (see Configuration mode).
- **Audio** (5). Starts the camera's audio mode (if it has one) and permits audio recordings.
- **Export**(6). Exports the pictures or prints the image displayed.
- **Fullscreen** (7). Enlarges the image detail of the camera so that it fills the main window. All menus except the camera menu are hidden.
- **Video recording** (8). Starts and stops recording. A slowly flashing button indicates that recording is in progress. A rapidly flashing button indicates alarm recording.

ISearch

Here you can search the recording of the last 60 minutes for movements without switching to archive mode.

The performance of the search in the selected image detail depends on the performance capability of the client hardware, since the search is carried out exclusively on the client.

► Select **ISearch.**

See iSearch to find out what else you have to do.

8.3 Camera overview

The **Camera overview** tab displays all the cameras, maps, layers and web pages for each of the company's sites.

► Click the small triangle in front of the name of the site to display all of the objects assigned to this site.
  All of the objects are displayed in the main window provided the display option permits it (see Main window).

► Select an object from the list to display only this object.

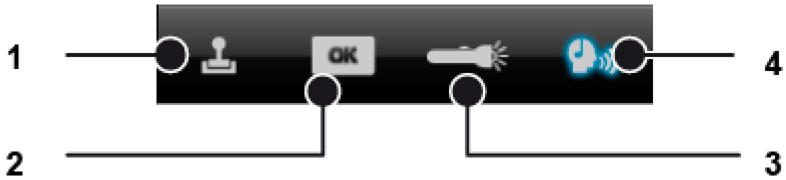
Searching for an object

In the system's configuration settings, each object should have been given its own name.

► To search for a specific object, enter the name of the object in the **Search** text box, and then click the magnifying glass icon.
  The first object found is highlighted.

► Click the magnifying glass icon again to jump to the next object found.

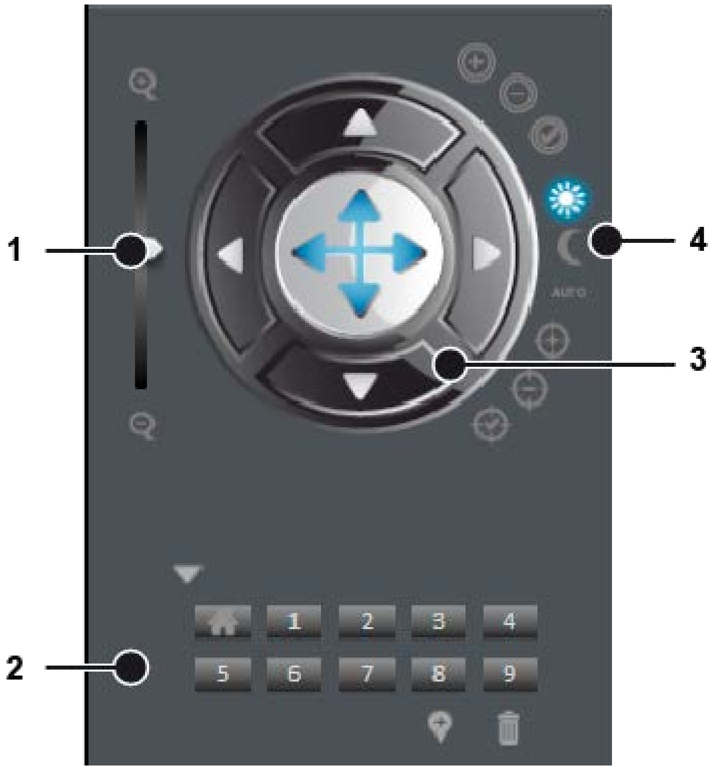
8.4 Control



The **Control** tab allows you to control the active cameras displayed in the main window. There are four submenus available:

Joystick (1)

► On the menu bar of the **Control** tab, click the **Joystick** icon to switch to operating mode for the cameras.



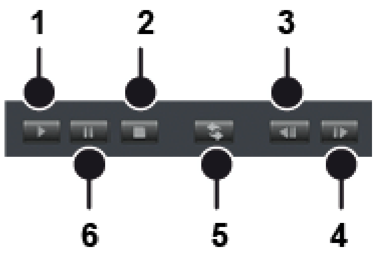
The joystick function is the central function for operating the selected camera.
These functions are available only for PTZ cameras.

- ► Drag the **Zoom** slider (1) up or down to make the camera zoom in or out.
- ► Select the required camera position (2) to pan the camera to a preset position. Including the default position, ten positions are possible.
- ► Select the camera image, and then use the joystick (3) to move the camera by moving the bright spot in the desired direction.
- ► Use the four direction arrows on the edge of the joystick to move the camera incrementally.
- ► Switch between daytime and nighttime vision (4) to get an image when light conditions are poor, providing this is supported by the camera.

Buttons (2)

- ► On the menu bar of the **Control** tab, click **OK** to switch to the display of the buttons created.
  The buttons the user is authorized to use are displayed.
- ► Select the desired sequence by clicking the button.

Patrol (3)



- ► On the menu bar of the **Control** tab, click the **Patrol** icon to switch to the overview of the patrols configured.

Starting a patrol

- ► Select the desired patrol, and then click **Play** (1).
  The specified cameras, preset positions, maps and layers are displayed one after the other for a defined period of time.

Stopping a patrol

- ► Click **Play** (1) again to interrupt the patrol.

Pausing a patrol

- ► Click **Pause** (2) to pause a patrol.
  The patrol is paused.

Canceling a patrol

- ► Click **Cancel** (3) to cancel the selected patrol.

Repeating a patrol

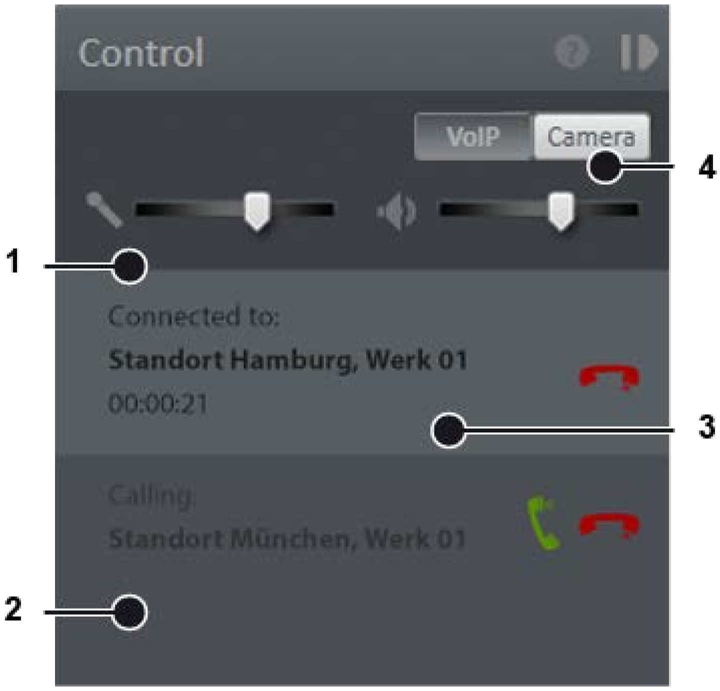
- ► Click **Loop** (4).
  The patrol is repeated.
- ► Click **Loop** (4) again.
  The repetition is canceled, and no more patrols are carried out once the current one is finished.

Navigating between points in the patrol

- ► Click **Next** (5) or **Back** (6) to go to the next or previous point.

Camera audio (4)

- On the menu bar of the **Control** tab, click the **Camera audio** icon to switch to audio mode.



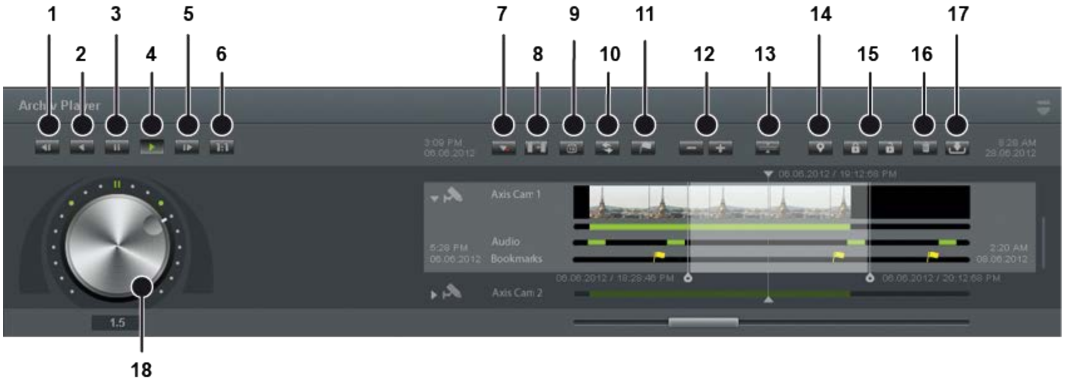
- Select **VoIP** (4) or **Camera** (4) to switch between the audio system of the camera (if there is one) and voice output over the network (Voice over IP).
- Move the sliders (1) for the **microphone** and **loudspeakers** to adjust the volume.
- To speak to a person from the address book of the existing users, enter the name of the person in the text box (2), and then click the magnifying glass icon or select a person from the list.
- Click the green phone icon to start the call.
- Click the red phone icon to finish the call.
  The name of the person you are talking to, the person's location and the duration of the call are displayed (3).

9 Archive mode

The recorded data is displayed in archive mode. Here you can carry out comprehensive analyses of the archived data.

► To change to archive mode, click the **Archive mode** icon on the mode bar.

► Select the camera or layer whose archived image data is to be displayed, or select an alarm from the alarm list.



The archive player is available to you for navigating in the image data archive of a camera. Alarm events are highlighted in red in the archive player.

The archive player has the following functions:

- **Previous frame** (1): Jumps to the event's previous i-frame.
- **Play backward** (2): Plays the archived event in reverse chronological order.
- **Pause** (3): Pauses the playing of the event.
- **Play** (4): Plays the archived event in the correct chronological order.
- **Next frame** (5): Jumps to the event's next i-frame.
- **Real time** (6): Plays the event in real time.
- **Next alarm recording** (7): Jumps to the camera's next alarm recording.
- **Skip pause** (8): Skips the pause between two recordings.
- **Calendar** (9): Opens a calendar window in order to navigate to a specific calendar time (date and time).
- **Update timeline** (10): Displays the most recently recorded images immediately.
- **Synchronized mode** (12): When playback starts, the cameras are synchronized to the time of the selected camera.
- **Zoom in to timeline/Zoom out from timeline** (13): Enlarges or reduces the size of the display of the timeline. You can also zoom within the recording period by clicking the timeline and then turning the scroll wheel on the mouse.
- **Set start/end marker** (14): Sets the start and end markers for a selected area of the timeline (see Editing an area).
- **Write protection** (15): Sets write protection for the marked area of the timeline.
- **Delete area** (16): Removes the marked area from the timeline.
- **Export** (17): Exports the marked area as image data or as an AVI video file.
- **Jog dial** (18): Plays the sequence forward and backward. The further you turn the jog dial to the right or left, the faster the sequence is played forward or backward.

Editing an area

► Click the camera icon next to the jog dial.

- To specify an area on the timeline, click the **Set markers** icon.
- Move the two bright edges of the period or the period under the area.
- Click the **Set markers** icon again to specify the area.
- Click the **Delete area** icon to remove the area from the timeline.
- Click the **Export area** icon to export the area.
- Select the required data format (**Type**), and then click **OK**.
- Specify the required export settings (see Multiple export of image data).

9.1 ISearch

ISearch helps you to search for events in part of an image.

Creating a search area

- Select the camera image, and then select **ISearch** at the bottom of the image.
- Select the duration of the recording.
- Click the magnifying glass icon, and then select the shape of the area to be monitored.
- Click the camera image, and then drag the shape to the desired position.
  A semi-transparent area is laid over the image in the selected position.
- If you selected the polygon for this purpose, click a point in the image for each corner and close the polygon by double-clicking the last point.

ISearch in surveillance mode

- Start recording in the camera image controller.
  After the selected duration has elapsed, you receive a message about the changes found in the selected area.
- Click the **Play** icon to play back the recorded period.
- Click the **Pause** icon to pause the recording.

ISearch in archive mode

- After you have specified the search area, limit the search to a **period** of the archived recordings.
- Click the date field (2), and then click the calendar icon (1 or 4) and specify the recording period.
- Select either **Any kind of motion** within the selected area or **A single event**, depending on what you want to take into account.

- ► Select **expert mode**, if appropriate, which allows you to carry out fine tuning and adapt the methods.
- ► **Start** the search.
- ► Use the job dial (5) to move around in the recorded period.
  The further you turn the jog dial to the right or left, the faster the sequence is played forward or backward.

10 Event analysis

The event analysis facility gives you an overview of the events that have occurred in the form of a list. Distinctions are drawn between user events, alarm events and system messages. In addition, the camera usage of users can be tracked.

► To switch to the event analysis facility, click the **Event analysis** icon on the mode bar.

► Click a column header in the main window to sort the events in ascending or ascending order on the basis of the column's category (data/time, alarm, description).

Filtering the analysis

► To filter the events on the basis of specified criteria, select the type of event you are searching for on the control bar.
You can choose between the following events:

Alarms (events that occur)
Users (display of events that concern specific users)
Camera usage (display of events that concern a specific camera)
System messages (display of events that concern specific services)

► Select the desired events.

► Specify dates and times to define the **time period**.

► **Start** the query.
Only the events that meet the selected criteria are displayed in the main window.

Exporting the analysis

You can also export the result as a comma-separated file (*.csv).

► **Export** the result in order to analyze it in a spreadsheet program.

Searching for an event

► To search for a specific term or event, enter the term in the Search text box, and then click the magnifying glass icon.

11 Configuration mode

You need administration authorization to carry out configuration.

In configuration mode you make all of the settings for the hardware, network, company, maps, alarms and users.

► To change to configuration mode, click the **Configuration mode** icon on the mode bar.

Configuration wizard

You will find the configuration wizard on the starting page of configuration mode. This helps you make settings for the hardware. You can use it to make basic settings for:

- Alarms (see Creating settings and Copying settings)
- Cameras (see Creating settings and Copying settings)

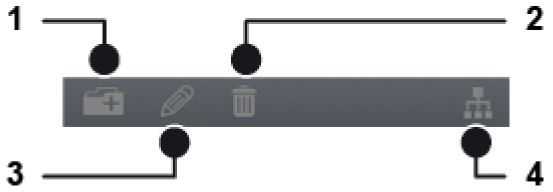
Additional settings

► See Company for further settings for the company.

► See Administration for further settings for maps, other hardware, user management, etc.

11.1 Company

The Company tab allows you to configure your company's locations and the hardware used at each location.



Creating a location (1)

► To create a new location, click the **Create location** icon (1).

► Specify the name of the location, and then click **OK**.

The new location is displayed in the window of the tab.

Editing a location (2)

► To edit a location that has been created, select the location in the window of the tab.

► Click the **Edit location** icon.

Deleting a location (3)

► To delete a location and all of the associated settings, click the **Delete location** icon (2).

The settings for this location are deleted.

Displaying a location overview (4)

► Click a location on the **Company**.
► To display the settings for a location, click the **Location overview** icon.
All of the settings for this location are displayed.

11.2 Administration

11.2.1 Administration

On the **Administration** tab you can assign hardware (e.g. cameras), actions and the authorization manager to the specified locations and manage new objects such as alarm scenarios, for example.

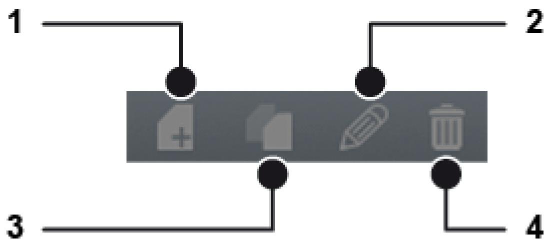
Functions

Depending on the hardware and network architecture, you can configure the following functions:

- Camera. This function allows you to configure and manage the camera hardware and the associated video server.
- Other hardware. This function allows you to configure and manage additional devices.
- License plate groups. This function allows you to configure and manage the number plate recognition function of the LPR module.
- Time management. This function allows you to configure and manage the time templates to coordinate the standard image recording of individual or multiple cameras as well as validity in alarm scenarios.
- Buttons. This function allows you to configure and manage the sequences of actions that can be triggered in the controller in surveillance mode.
- Maps. This function allows you to configure and manage the maps of the site or building under surveillance, including the location of the surveillance hardware.
- Video walls. This function allows you to configure and manage the number plate recognition function of the LPR module. You can drag and drop camera images, layers, maps and web pages to display them on video walls.
- Layers. This function allows you to configure and manage the layers of the main window ("stage") in surveillance mode.
- Users. This function allows you to configure and manage the users.
- Groups. This function allows you to configure and manage the user groups.
- Profiles. This function allows you to configure and manage the user and group profiles.
- Alarms. This function allows you to configure and manage the alarm scenarios.
- Patrols. This function allows you to configure and manage multiple cameras, set positions, maps and layers one after the other for a user-definable time.
- Sequences. This function allows you to configure and manage the sequences of actions in which multiple set positions are approached one after the other and/or actions are triggered.
- Server. This function allows you to configure the device services.

- System. This function allows you to configure and manage system-wide settings for the network, automatic backups as well as communication settings and event management settings.

Editing menu



There are four editing modes available on the **Administration** tab:

- Create new object (1)
- Configure object (2)
- Delete object (3)
- Duplicate object (4)

11.2.2 Camera

The **Camera** function on the **Administration** tab allows you to configure and manage the video hardware:

Creating a new camera

- ► Select **Camera** on the Administration tab.
- ► Create a new camera.
- ► Enter the name for the new camera.
  If you want to configure the new camera using the configuration wizard, select **Wizard** in the dialog box.
- ► Select the **manufacturer** and **type** of the camera.
- ► Select an **authorization**, if required, and enter a **user name** and **password**.
- ► Enter the **host** name or IP address of the camera.
- ► Select the **Device Manager**, if applicable.
  If multiple servers have been installed for storing the image data (see Distributed server in the installation routine), the available servers are displayed.
- ► If you want to adjust the IP address of the camera, select the camera's manufacturer for **Available IP installers**, and then click **IP setup**.
  The subsequent configuration of the network address of the camera depends on the manufacturer's installation program. Note the associated documentation of the installation program.
- ► Click **OK** to confirm your entries.
  The new camera is displayed in the camera overview.

Configuring a camera

- ► Select the camera in the overview.
  The settings of the camera are displayed in the main window.

► To search for the camera in the overview, enter the name of the camera in the **Search** text box, and then click the magnifying glass icon.

Network cameras consist of a camera unit and a video server unit. That is why the video server and a camera are always displayed as the hardware. Accordingly, the settings of a network camera are always subdivided into video server settings and camera settings. The video settings include all of the connection-specific parameters, while the camera settings include all of the image quality and image storage settings.

IP camera/video server configuration

General

► Select or deselect the camera.

► Enter the **name**, the **type** and the network address or **host** name of the network camera.

► Select the protocol type (http or https), and then change the **port** number, if necessary.

► To test the incoming camera signal, click the **Browser** button.
The browser starts up, and the camera image is displayed in the browser window.

The application programming interface (API) is identified automatically. If the API version cannot be retained, ask SeeTec Support for the correct assignment of the API version to the camera firmware.

► If necessary, change the server for managing the devices (**Device Manager server**).

► Select the camera **capture mode** if the camera supports different capture modes.

► **Apply** the set values if you want to make further settings.

► **Save** the set values to apply the values and conclude input.

Digital inputs

► Select the digital inputs and specify unique names for **Name for CLOSED** and **Name for OPEN**.

► Specify the interval for the **dead time** (in seconds) after which a signal is analyzed again.
That prevents the event database from becoming unnecessarily large when there are events in rapid succession.

► **Apply** the set values if you want to make further settings.

► **Save** the set values to apply the values and conclude input.

Digital outputs

► Select the digital outputs and specify unique names for **Name for CLOSED** and **Name for OPEN**.

► Specify the **hold time** for the time (in seconds) within which an output is opened or closed (0 = infinite).

► **Apply** the set values if you want to make further settings.

► **Save** the set values to apply the values and conclude input.

Camera -*name of the camera-*

General

► Select or deselect the camera.

► If necessary, change the **camera ID** and adapt the ID of the associated **camera** to the hardware.

***Special case**: If the camera does not have its own PTZ control unit, you can redirect the control signals of a video encoder to another camera with a connected PTZ control unit. A separate RS-485 port of the video encoder is required for each redirection.*

- ► To integrate a connected control unit, select **PTZ** as the **camera type**.
- ► Select **Display title** if you want a title to be displayed in the camera image, and then enter the **title**.
- ► Select whether the **date and time** are to be displayed in the camera image.
- ► If the camera was not mounted upright, you can use the **Rotate image** function. You can rotate the image in 90° steps (90°, 180°, 270°).
- ► Select **Display buffer** and specify the required size (0-1000 ms). If you use the display buffer, the images from the camera are buffered on the SeeTec client before they are displayed. This normalizes fluctuations in the live display in terms of the intervals between different images. These occur, above all, with cameras that have a low-bandwidth connection.
- ► Select **Control camera** if you are configuring a PTZ camera or a control unit to give the user the option of controlling the camera in surveillance mode.
- ► Specify the **PTZ sensitivity** of the camera control.
- ► Select the **camera position** to give the user the option of moving the camera using the PTZ control field and preset positions in surveillance mode.
- ► Select **Invert PTZ control** to correctly control cameras that are mounted upside down.
- ► Select **Pan/tilt mode**.
- ► If the camera has a wide-angle lens (**fisheye**), select the manufacturer of the camera.
- ► Make a selection for **Action in the case of inactivity** to specify which action is to be performed if the camera is inactive.
  The selected action is displayed.
- ► Specify for **Timeout** the time after which the action is to be performed if the camera is inactive (in seconds).
- ► Make selections for **Action at start of video stream** and **Action when the video stream is stopped** to specify the actions to be taken when the video stream starts and stops.
  The selected actions are displayed.
- ► Make a selection for **Action in the case of inactivity** to specify what is to happen if the camera is inactive.
  The selected action is displayed.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Image storage

All of the image storage settings (e.g. which multimedia database is used or the size of a camera's storage area on the hard disk) are configured here. To prevent sensitive image data from being overwritten, standard and alarm recordings are configured separately.

- ► Select whether **standard recordings** are to be carried out with this camera.
- ► Select the **recording period**.
  You specify the exact period using a time template that you create in the Time Manager. By default, continuous recording is started ("Always").

- Select the **time limit** and enter the maximum storage duration.
  If there is not enough storage space, the oldest recording is deleted and replaced with the current recording.
- You can specify a condition for starting image recording.
- Select whether **alarm recordings** are to be carried out with this camera.
- Select the **time limit** and enter the maximum storage duration.
  If there is not enough storage space, the oldest recording is deleted and replaced with the current recording.
- Specify a **pre-alarm duration** (up to a maximum of 3600 seconds) for alarm recording to record a period before the alarm is triggered.
- Specify a **maximum post-alarm duration** (up to a maximum of 3600 seconds) for alarm recording to record a period after the alarm is triggered.

The maximum post-alarm duration has no effect on alarm recording that is triggered by an alarm scenario.

- Select automatic deletion of the standard recordings or alarm recordings after a specific timespan (**Standard recording data aging** or **Alarm recording data aging**).
- Specify the **time limit** after which the recordings are to be compressed and released from the audio track.
- Specify the **frame rate** (in fps) at which the recordings are to be stored after the time limit is exceeded.
  This reduces the image data to the set frame rate.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Video streams

In the video streams you can specify and configure different profiles for the transmission of image data. The software creates a base profile during installation.

- Click **New** to create a new video stream.
- Select the video stream, and then click **Edit** to make the required settings.
- Select the **capture mode**.
  Depending on the setting selected, the camera provides different frame rates and resolutions. The camera may restart and then be inaccessible for a few minutes.
- Select the type of the **video** stream.
  The selected video codec is displayed.
  MPEG-4/H.264 streaming is manufacturer-specific and is therefore not supported by all cameras.

The screen saver of the client computer must be disabled for MPEG-4/H.264 streaming.

- Select the **transmission mode**.
- Select the transmission of **audio** signals.
- Specify the **frame rate** (fps) and **image quality** (as a percentage of the best possible quality) separately for standard and alarm recording.
  When there are differences in the settings for standard and alarm recording in MPEG-4/H.264 streaming, it can take several seconds to switch from standard to alarm recording. The length of time taken depends on the camera. There may be no recording available during this period.
- Select a suitable **resolution** for the camera image.

- Specify the maximum **bandwidth** to be made available between the camera and SeeTec server.
  By default, the video stream is transmitted at a maximum of 4096 kbps.
- Make a selection for **Bandwidth control** to specify whether a constant or variable bit rate is to be requested from the camera (depends on the camera type).
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Audio settings

- Select a suitable **audio codec** for the camera to specify sound transmission.
  The voice quality for the G711 codec in VoIP corresponds roughly to the sound quality of the ISDN standard.
  The voice quality for the G726 codec in VoIP corresponds roughly to the sound quality of a cordless phone (DECT).

Video gateway

- Select **Gateway**, and then specify the **port** number if intelligent image analysis is to be carried out by a via:sys box from viasys | Intelligent Video GmbH.
- Select **multicast** streaming to display the video streams simultaneously on multiple clients.
- Enter the network **address** and **port** number of the multicast server.
- Specify the validity period (**TTL**) after which the client has to log in to the multicast server again.
  A short TTL results in a higher network load.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Camera positions

- Use the joystick to move the camera to the required position.
- Click the **New** button.
- Click the number of the preset position to be moved to with the new camera setting.
- Enter the name of the new preset position and click **OK**.
  The name is displayed in the column.
- To remove a preset position, select the name in the list and click the **Delete** button.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Image data export

- Specify whether standard recordings and alarm recordings are to be exported automatically.

The time and path for the export are specified in the MDB configuration.

- Specify the **recording period** to be exported.
  You specify the exact period using a time template that you create in the Time Manager.
- Specify whether the **camera name** and **time** of recording are also to be exported in the AV export.
  The camera name and time are specified in the exported sequence at the bottom of the image.
- Select **Reduce resolution** to reduce the image quality, if necessary, and thus also the data volume.
- Select the **maximum resolution** for the export.

- Specify whether the **length** of the recording is to be limited.
- Specify the **maximum length** of the recordings (in seconds).
- Select **Reduce frame rate** separately for the video settings and single-image sequences in order not to export all of the images of the recordings.
- Specify the **maximum frame rate** (in fps).
- Select **Create ZIP file** to compress the exported data after export.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Camera motion detection

- Select the desired number of motion detection windows.
  The motion detection windows must be configured on the camera directly.
- Specify the interval for the **dead time** (in seconds) after which a signal is analyzed again.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Tampering

Depending on the camera model used, specific events can be used as triggers for an alarm scenario.

- Specify whether, if there is **tampering** with the camera or the **video signal is lost**, notification is to be sent to the server automatically.
  An action can be started once notification is received.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Privacy masking settings

Sensitive areas or movements in the image can be hidden by means of a mask. This prevents the user from seeing these areas. Depending on the user authorizations, the mask is displayed in surveillance mode and archive mode.

- Select **privacy masking**.
- Select the **Static objects** or **Scrambling** tab.

▪ You can use the **Static objects** method to mask fixed individual areas of the camera image. The masking follows the camera so that it is always the same image detail that is masked.
▪ The **Moving objects** method of the Scrambling function allows you to mask moving objects or people. If a person, for example, stops, the masking is immediately removed.
▪ **Office mode** of the Scrambling function masks all differences from a reference image.

- **Static objects**:
  Select the **Static objects** function and select the shape of the area to be hidden.
  Select the transparency, color and shape of the mask, and then drag the shape over the camera image.
  You can select either **Delete** to delete a single masking or **Delete all** to delete all of them.
- **Moving objects**:
  Select the **Scrambling** function and specify how long the object is to be masked for after it comes to a halt (**Masking duration**), the pixel size to be used for masking (**Masking**) and how sensitive the response is to a moving object (**Sensitivity**).
  Select **Black and white** to display the mask in black and white.

- **Office mode:**
  Select **Office mode**, and then load a reference image. All differences to the stored reference image are masked.
- To delete all maskings in the archive, click **Delete history** and then **Yes** to confirm.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a camera

- Select the camera in the overview.
- To search for the camera in the overview, enter the name of the camera in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

All saved recordings of the camera are deleted.

Duplicating a camera

- Select the camera in the overview.
- To search for the camera in the overview, enter the name of the camera in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and enter the name for the duplicated camera.
- If you want to configure the new camera using the configuration wizard, select **Wizard** in the dialog box.
- Click **OK** to accept the name.
  The new camera is displayed in the overview.

11.2.3 Other hardware

The **Other hardware** function on the Administration tab allows you to configure and manage additional devices:

Creating new hardware

- Select **Hardware** on the Administration tab.
- Create a new hardware item.
- Enter the **name** for the new hardware.
  If you want to configure the new hardware using the configuration wizard, select **Wizard** in the dialog box.
- Select the **manufacturer** and **type** of the hardware.
- Select an **authorization**, if required, and enter a **user name** and **password**.
- Enter the **host** name or **IP address** of the device.
- If necessary, select the **Device Manager**.
- Click **OK** to confirm your entries.
  The new hardware is displayed in the overview.

Configuring hardware

- Select the hardware in the overview.
- To search for the hardware in the overview, enter the name of the hardware in the **Search** text box, and then click the magnifying glass icon.

► Edit the settings for the hardware.

Deleting hardware

► Select the hardware in the overview.
► To search for the hardware in the overview, enter the name of the hardware in the **Search** text box, and then click the magnifying glass icon.
► Click the **Delete object** icon.

Duplicating hardware

► Select the hardware in the overview.
► To search for the hardware in the overview, enter the name of the hardware in the **Search** text box, and then click the magnifying glass icon.
► Click the **Duplicate object** icon, and then enter the name for the duplicated hardware.
► Click **OK** to accept the name.
The new hardware is displayed in the overview.

11.2.4 License plate groups

The **License plate groups** function on the Administration tab allows you to configure and manage license plate recognition (LPR):

Creating a new license plate group

► Select **License plate group** on the Administration tab.
► Create a new license plate group.
► Enter the name for the new license plate group.
► Click **OK** to accept the name.
The new license plate group is displayed in the overview.

Configuring a license plate group

► Select the license plate group in the overview.
► To search for the license plate group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.
► **Select** license pate recognition.
► If necessary, alter the **name** of the license plate group.
► Adjust the **font color** and **background** in the display of the license plate.
► Select **XML export** to export the license plate data as an XML file.
► **Apply** the set values if you want to make further settings.
► **Save** the set values to apply the values and conclude input.

Deleting a license plate group

► Select the license plate group in the overview.
► To search for the license plate group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.
► Click the **Delete object** icon.

Duplicating a license plate group

- Select the license plate group in the overview.
- To search for the license plate group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter the name for the duplicated license plate group.
- Click **OK** to accept the name.
  The new license plate group is displayed in the overview.

11.2.5 Time Manager

The **Time Manager** function on the Administration tab allows you to create time templates that are similar to a schedule in order to coordinate the standard image recording of individual or multiple cameras as well as validity in alarm scenarios and user groups.

Creating a new time manager

- Select **Time Manager** on the Administration tab.
- Create a new time manager.
- Enter the name for the new time manager.
- Click **OK** to accept the name.
  The new time manager is displayed in the overview.

Configuring a time manager

- Select the time manager in the overview.
- To search for the time manager in the overview, enter the name of the time manager in the **Search** text box, and then click the magnifying glass icon.
- In the calendar, select the periods in which actions are to be performed by holding down the mouse button and dragging the mouse pointer over the period.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a time manager

- Select the time manager in the overview.
- To search for the time manager in the overview, enter the name of the time manager in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a time manager

- Select the time manager in the overview.
- To search for the time manager in the overview, enter the name of the time manager in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter the name for the duplicated time manager.

- ► Click **OK** to accept the name.
  The new time manager is displayed in the overview.

11.2.6 Buttons

The **Buttons** function on the Administration tab allows you to start specified actions such as camera recordings or alarm scenarios.

Creating a new button

- ► Select **Buttons** on the Administration tab.
- ► Create a new button.
- ► Enter the name for the new button.
- ► Click **OK** to accept the name.
  The new button is displayed in the overview.

Configuring a button

- ► Select the button in the overview.
- ► To search for the button in the overview, enter the name of the button in the **Search** text box, and then click the magnifying glass icon.

General

- ► If necessary, alter the **name**.
- ► Specify the **sort order** of the buttons in the controller in surveillance mode (see Buttons).
  The buttons are automatically sorted in ascending order. In other words, the higher the number of a button, the lower down it appears in the list on the tab.
- ► Select an **icon** to make it easier to recognize.
- ► Activate the action for a **specific camera**, and select the camera.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Action

- ► Select the **Call URL** option, and enter the Internet or intranet address.
  Camera scripts cannot be started under this address, for example.
- ► Click the **Test** button to check that the specified URL works.
- ► Select the **Perform action** option and then the action.
- ► If a second action is to be performed, select **Perform next action** and then the action.
- ► Select the **Start alarm scenario** option and then the alarm scenario (see Alarms).
- ► Select the **Terminate alarm scenario** option and then the alarm scenario (see Alarms).
- ► Select the **Start patrol** option and then the patrol (see Patrols).
- ► Select the **Run program** option, and then click the **Select** button to select a program to be started.
- ► Enter any **parameters** required by the program.
  A document can be opened using the selected program, for example.
- ► **Apply** the set values if you want to make further settings.

- **Save** the set values to apply the values and conclude input.

Deleting a button

- Select the action in the overview.
- To search for the action in the overview, enter the name of the action in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a button

- Select the action in the overview.
- To search for the action in the overview, enter the name of the action in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and enter a name for the duplicated action.
- Click **OK** to accept the name.
  The new action is displayed in the overview.

11.2.7 Web pages

The **Web pages** function on the Administration tab allows you to embed web pages in the layer (e.g. webcams or intranet pages).

Creating a new web page

- Select **Web pages** on the Administration tab.
- Create a new web page.
- Enter the **name** for the new web page.
- Click **OK** to accept the name.
  The new web page is displayed in the overview.

Configuring a web page

- Select the web page in the overview.
- To search for the web page in the overview, enter the name of the web page in the **Search** text box, and then click the magnifying glass icon.
- If necessary, alter the **name** of the web page and enter the **URL** (Internet or intranet address).
- Click the **Test** button to check that the web page can be accessed.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a web page

- Select the web page in the overview.
- To search for the web page in the overview, enter the name of the web page in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a web page

- ► Select the web page in the overview.
- ► To search for the web page in the overview, enter the name of the web page in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Duplicate object** icon, and then enter the name for the duplicated web page.
- ► Click **OK** to accept the name.
  The new web page is displayed in the overview.

11.2.8 Maps

The **Maps** function on the Administration tab allows you to configure and manage the maps of the site or building under surveillance, including the location of the surveillance hardware.

Creating a new map

- ► Select **Maps** on the Administration tab.
- ► Create a new map.
- ► Enter the name for the new map.
- ► Click **OK** to accept the name.
  The new map is displayed in the overview.

Configuring a map

- ► Select the map in the overview.
- ► To search for the map in the overview, enter the name of the map in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Background image** button, and then select the desired background image (e.g. building floor plan).
- ► Drag the cameras required for the desired site from the list to the background image.
- ► Use the slider to set the **relative size** of the camera and the **angle of view**.
  You can also set the exact angle of view by entering the angle in the text box.
- ► Use the slider to set the **angle of rotation**.
- ► Select **Mirror** to mirror the angle of rotation on the vertical axis.
- ► Select **Display text** to display the name of the camera in the image.
- ► Click the **Delete** button to remove the camera and all its settings from the image.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Deleting a map

- ► Select the map in the overview.
- ► To search for the map in the overview, enter the name of the map in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Delete object** icon.

Duplicating a map

- Select the map in the overview.
- To search for the map in the overview, enter the name of the map in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter a name for the duplicated map.
- Click **OK** to accept the name.
  The new map is displayed in the overview.

11.2.9 Video walls

The **Video walls** function on the Administration tab allows you to control the screens connected to the network dynamically and display camera images, layers, maps and web pages on video walls in dispatcher mode.

Creating a new video wall

- Select **Video walls** on the Administration tab.
- Create a new video wall.
- Enter the name for the new video wall.
- Click **OK** to accept the name.
  The new video wall is displayed in the overview.

Configuring a video wall

- Select the video wall in the overview.
- To search for the video wall in the overview, enter the name of the video wall in the **Search** text box, and then click the magnifying glass icon.
- If necessary, alter the **name of the video wall**.
- Select the background image to be displayed on the video wall.
- Drag the desired video wall (see Other hardware) to the background image, and adjust the arrangement of the monitors.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a video wall

- Select the video wall in the overview.
- To search for the video wall in the overview, enter the name of the video wall in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a video wall

- Select the video wall in the overview.
- To search for the video wall in the overview, enter the name of the video wall in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter the name for the duplicated video wall.

- Click **OK** to accept the name.
  The new video wall is displayed in the overview.

11.2.10 Layers

The **Layers** function on the Administration tab allows you to adapt the main window ("stage") to suit your requirements in surveillance mode. These layers can be assigned to a user or group profile and are available after the program starts up.

Creating a new layer

- Select **Layers** on the Administration tab.
- Create a new layer.
- Enter the **name** of the new layer and the number of fields.
- Click **OK** to accept the name.
  The new layer is displayed in the overview.

Configuring a layer

- Select the layer in the overview.
- To search for the layer in the overview, enter the name of the layer in the **Search** text box, and then click the magnifying glass icon.
- If necessary, alter the **name** of the layer.
- Drag the cameras to the layer window in the selected arrangement.
- To remove a camera from the layer, select the camera and click the **Delete** button.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a layer

- Select the layer in the overview.
- To search for the layer in the overview, enter the name of the layer in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a layer

- Select the layer in the overview.
- To search for the layer in the overview, enter the name of the layer in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and enter a name for the duplicated layer.
- Click **OK** to accept the name.
  The new layer is displayed in the overview.

11.2.11 User

The **User** function on the Administration tab allows you to create and delete user profiles. In addition, you can configure the connection to an existing Active Directory® Authorization Manager.

Creating a new user

- Select **User** on the Administration tab.
- Create a new user.
- Enter the name and password of the new user.
- Click **OK** to accept the name.
  The new user is displayed in the overview.

Configuring a user

- Select the user in the overview.
- To search for the user in the overview, enter the name of the user in the **Search** text box, and then click the magnifying glass icon.

General

- Select or deselect the user.

The administrator cannot be deselected.

- If necessary, alter the **name** of the user.
- Enter a **description** of the user account.
  This can be the name of the user, for example.
- Select the **groups** to which the user account belongs (see also Groups).
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Password

- Select **User must use a secure password**.
  If the password does not meet the security requirements (see below), you receive a message to this effect.
- Select **User may change own password** to permit the user to change his or her password.
- Select **User must change password regularly** and specify the **validity** period for the password.
  Before the period expires, the user is requested to change the password in order to be able to continue logging in.
- Select **Change user password**, and enter a new user password.

If you have selected User must use a secure password, choose a password that consists of at least eight characters and contains at least one digit, one upper-case letter and one lower-case letter.

- Enter the user password again.
- To create an additional password should the user forget the first one, select **User needs two passwords** and specify a further password, which must adhere to the same security rules.
- Enter the second password again.

If you forget the administrator's password and haven't added any users to the administrator group (see Groups), it is no longer possible to access configuration mode.

- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Rights options

- ► Select **Limit archive access**, and specify the duration of the access period (in minutes) in order to prevent the user from having continuous access to the archive.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Manage user rights

- ► Select or deselect the rights of the selected user to perform specific actions on the installed devices and objects.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Manage administrative rights

- ► Select or deselect the rights of the selected user to make changes or settings in the administration settings.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Deleting a user

- ► Select the user in the overview.
- ► To search for the user in the overview, enter the name of the user in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Delete object** icon.

Duplicating a user

- ► Select the user in the overview.
- ► To search for the user in the overview, enter the name of the user in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Duplicate object** icon, and enter a name for the duplicated user.
- ► Click **OK** to accept the name.
  The new user is displayed in the overview.

11.2.12 Groups

The **Groups** function on the Administration tab allows you to group together and manage users in groups with identical rights:

Creating a new group

- ► Select **Groups** on the Administration tab.
- ► Create a new group.
- ► Enter the name for the new group.
- ► Click **OK** to accept the name.
  The new group is displayed in the overview.

Configuring a group

- Select the group in the overview.
- To search for the group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.

General

- Select or deselect the group.
- If necessary, alter the **name** of the group.
- Enter a **description** of the group.
- Select a **validity period** for the group, within which a user belonging to the group can log in to the system.
  The possible periods are specified in the Time Manager.
- Specify the **validity status** to determine the cameras assigned to the group.
  All users belonging to this group can thus be prevented from accessing certain cameras.
- Assign the group **colors in group lists**.
- Select the **users** to be assigned to the group.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Rights options

- Select **Limit archive access**, and specify the duration of the access period (in minutes) in order to prevent the user from having continuous access to the archive.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Managing user rights

- Select or deselect the rights of the selected user to perform specific actions on the installed devices and objects.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Managing administrative rights

- Select or deselect the rights of the selected user to make changes or settings in the administration settings.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting a group

- Select the group in the overview.
- To search for the group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a group

- Select the group in the overview.

- To search for the group in the overview, enter the name of the group in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and enter the name for the duplicated group.
- Click **OK** to accept the name.
  The new group is displayed in the overview.

11.2.13 Profiles

The **Profiles** function on the Administration tab allows you to assign general settings to a user account or group that apply to the operation of the client. For each user created and each user group, a profile is automatically created, via which the live layer can be influenced in surveillance mode.

General

- Select the profile in the overview.
- To search for the profile in the overview, enter the name of the profile in the **Search** text box, and then click the magnifying glass icon.
- Activate or deactivate the selected profile.
- Select **Confirm termination of the client** to display a confirmation on termination of the client.
- Select **Log off user when inactive** and specify the **timeout** (time in minutes) after which the user is logged out of the system automatically if inactive.
- Specify the **timeout (s) for prioritized PTZ actions** (in minutes) after which an installed PTZ camera can no longer be operated.
- Select the **layers** that can be displayed to the user or group (see Layers).
- Select the **patrols** that the user or group can select (see Patrols).
- For each user created and each user group, a profile is automatically created, via which the live layer can be influenced in surveillance mode.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Image settings

Video classifications

- Select the quality of the displayed **normal** and **selected** video image and the **alarm** video image.

Single image (Motion JPEG, MxPEG)

- Specify the frame rates of the displayed **normal** and **selected** video image and of the **alarm** video image, and then select the **display mode**.

Streaming (MPEG-4, H.264)

- Specify the frame rates of the displayed **normal** and **selected** video image and the **alarm** video image.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Video wall module mapping

Video wall module mapping allows you to specify the video wall module in which an alarm that occurs is displayed.

- ► Select **standard module mapping** or select which layer window is to be displayed on which video wall module.
- ► If the number of module assignments is insufficient, add to the list by clicking the **Add** icon.
- ► Select the modules you want to delete, and then click the **Delete** button.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

11.2.14 Alarms

The **Alarms** function on the Administration tab allows you to configure and manage alarm scenarios:

Creating a new alarm scenario

- ► Select **Alarms** on the Administration tab.
- ► Create a new alarm scenario.
- ► Enter the name for the new alarm scenario.
- ► If you want to configure the new alarm scenario using the configuration wizard, select **Wizard** in the dialog box.
- ► Click **OK** to accept the name.
  The new alarm scenario is displayed in the overview.

Configuring an alarm scenario

- ► Select the alarm scenario in the alarm overview.
- ► To search for the alarm scenario in the overview, enter the name of the scenario in the **Search** text box, and then click the magnifying glass icon.

General

- ► Select or deselect the alarm scenario.
- ► If necessary, alter the **name** of the alarm.
- ► Enter a **description**.
- ► Use the slider to assign the alarm a **priority**.
  The meaning of the priority level is displayed.
- ► Select the **validity period** for the alarm.
  The possible periods are specified in the Time Manager.
- ► Select the **color in the alarm list**.
- ► Select the **settings for low-priority alarms**.
- ▪ **Terminate alarm on clients when terminated on server**: The alarm is terminated on all of the clients involved and removed from the alarm list.
- ▪ **Start new alarm on clients if another low-priority alarm is active**: A low-priority alarm displaces another active low-priority alarm. In other words, the current alarm is put aside, and the new alarm is displayed.

- **Do not close layers automatically at end of alarm**: Prevents the layer from being automatically closed at the end of the alarm.

► **Apply** the set values if you want to make further settings.
► **Save** the set values to apply the values and conclude input.

Start

► Use the **Select** button to select the **events that trigger the alarm**.
The hardware and event are displayed.
► Use the **Select** button to select the **buttons that trigger the alarm**.
The hardware and button are displayed.
► **Apply** the set values if you want to make further settings.
► **Save the** set values to apply the values and conclude input.

End

► Specify the **maximum server alarm duration** (in seconds) to specify how long the alarm is to be recorded for.
► Use the **Select** button to select the **events that terminate the alarm**.
The hardware and event are displayed.
► Use the **Select** button to select the **buttons that terminate the alarm**.
The hardware and button are displayed.
► **Apply** the set values if you want to make further settings.
► **Save** the set values to apply the values and conclude input.

Visualization

► Select the cameras and layers to be displayed in the various windows in surveillance mode.
► Select normal mode or full-image mode for **Window mode**.
► Select the **window** to display the camera or layer in the main window or in one of the secondary windows.
► **Apply** the set values if you want to make further settings.
► **Save** the set values to apply the values and conclude input.

Persons involved

► Select the **profiles** of the users or groups allowed to see the alarm.
► Enter a text for alarms with a medium or high priority level in the message window.
This text is displayed in the **message window**.
► Select **Play signal tone**, and then select whether the signal tone is to be played when the alarm is activated or triggered.
► Select **Run external program** if a program is to be started at the same time as the alarm.
► Use the **Select** button to select which document is to be opened by the program.
► Enter any **parameters** required by the program.
A document can be opened using the selected program, for example.
► **Apply** the set values if you want to make further settings.
► **Save** the set values to apply the values and conclude input.

Server

► Specify the **pre-alarm duration for camera recordings** (up to a maximum of 3600 seconds) to record a period before the alarm is triggered.

- Select **Use separate frame rate (fps) for camera recordings**, and enter the required frame rate.
- Use the **Select** button to select the **actions at the start of an alarm**.
  The selected actions are displayed.
- Use the **Select** button to select the **actions at the end of an alarm**.
  The selected actions are displayed.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Email and FTP

In an alarm scenario, in addition to the alarm message, it is also possible to send a standard email or specify a data export to an FTP server.

- Enter the **subject** and text for the email **message**.
- Select the **recipients** to receive the email at the start and end of the alarm.
  You can specify the email addresses in the Alarm addresses section of the system settings.
- Select the cameras whose **data at the end of the alarm** is to be attached to the email, and specify the **data format**.

Note that the email attachments can exceed the permissible size of the email.

- Select the cameras whose data is to be stored on an FTP server when there is a large volume of data, and specify the **data format**.
  The FTP server is specified in the SeeTec VA Administration tool.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Deleting an alarm scenario

- Select the alarm scenario in the overview.
- To search for the alarm scenario in the overview, enter the name of the scenario in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating an alarm scenario

- Select the alarm scenario in the overview.
- To search for the alarm scenario in the overview, enter the name of the scenario in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and enter a name for the duplicated alarm scenario.
- If you want to configure the new alarm scenario using the configuration wizard, select **Wizard** in the dialog box.
- Click **OK** to accept the name.
  The new alarm scenario is displayed in the overview.

11.2.15 Patrols

The **Patrols** function on the **Administration** tab allows you to configure multiple cameras, set positions, maps and layers one after the other for a user-definable time. It is also possible to open or close digital outputs in a patrol and create checkpoints.

Creating a new patrol

- Select **Patrols** on the Administration tab.
- Create a new patrol.
- Enter the name for the new patrol.
- Click **OK** to accept the name.
  The new patrol is displayed in the overview.

Configuring a patrol

- Select the patrol in the overview.
- To search for the patrol in the overview, enter the name of the patrol in the **Search** text box, and then click the magnifying glass icon.
- If necessary, alter the **name** of the patrol.
- Select the **default pause** (in seconds) to set the duration for which a layer is to be displayed.
- Click **New group** to group together the objects of the patrol.
- Specify the name of the group, and then click **OK**.
- Drag the objects from the left-hand column to Patrol positions or the group.
- If necessary, insert a **new pause** and specify its duration.
- Insert a **new checkpoint** and give it a name.
- Select the object in Patrol positions, and then move the object up or down in the list by clicking the **Up** or **Down** button.
- Select the object in Patrol positions, and then click the **Edit** button to adjust the object's settings.
- Select the object in Patrol positions, and then click the **Delete** button to delete it.

Deleting a patrol

- Select the patrol in the overview.
- To search for the patrol in the overview, enter the name of the patrol in the **Search** text box, and then click the magnifying glass icon.
- Click the **Delete object** icon.

Duplicating a patrol

- Select the patrol in the overview.
- To search for the patrol in the overview, enter the name of the patrol in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter a name for the duplicated patrol.
- Click **OK** to accept the name.
  The new patrol is displayed in the overview.

11.2.16 Sequences

The **Sequences** function on the **Administration** tab allows you to create sequences in which multiple set positions are approached one after the other and/or actions are triggered.

Creating a new sequence

- ► Select **Sequences** on the Administration tab.
- ► Create a new sequence.
- ► Enter the name for the new sequence.
- ► Click **OK** to accept the name.
  The new sequence is displayed in the overview.

Configuring a sequence

- ► Select the sequence in the overview.
- ► To search for the sequence in the overview, enter the name of the sequence in the **Search** text box, and then click the magnifying glass icon.

General

- ► Select the sequence and, if necessary, alter the **name**.
- ► Use the **Points in time** and **Time periods** buttons to specify as of when or within which period the sequence is to run.
- ► Select one or more entries, and then click the **Edit selected entries** button to edit the entries one after the other.
- ► Select one or more entries, and then click the **Delete selected entries** button to delete the entries.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Actions

- ► Create a **new group** and give it a name.
- ► Drag one or more cameras or actions to the group, and then specify the **dead time** (in seconds) to specify the interval within which no new signal is displayed.
- ► Select a group, and then use the **New pause** button to adjust the pause (in seconds) to specify how long the camera or layer or map is displayed.
- ► Select a group or an entry, and use the **Up** or **Down** button to move it up or down in the list.
- ► Select a group or pause, and then click the **Edit** button to edit the name of the group or the duration of the pause.
- ► Select a group or an entry, and then click the **Delete** button to delete the group or entry.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Deleting a sequence

- ► Select the sequence in the overview.
- ► To search for the sequence in the overview, enter the name of the sequence in the **Search** text box, and then click the magnifying glass icon.
- ► Click the **Delete object** icon.

Duplicating a sequence

- ► Select the sequence in the overview.

- To search for the sequence in the overview, enter the name of the sequence in the **Search** text box, and then click the magnifying glass icon.
- Click the **Duplicate object** icon, and then enter the name for the duplicated sequence.
- Click **OK** to accept the name.
  The new sequence is displayed in the overview.

11.2.17 Server

The **Server** function on the Administration tab allows you to configure the server services.

CoreService

- If necessary, alter the **name**, network address and port number of the **server**.
- If necessary, alter the network address and port number of the master server.
- Click the **Remove from the system** button to remove the core server from the system configuration.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Global OCR settings

- Select the **server** on which the LPR service is to run.
- Select **Enable automatic master data entry** for unknown license plates.
  License plates are automatically added to the license plate database.
- Adjust the **font color** and **background** in the display of the license plate.
- Select **XML export** to export the license plate data as an XML file.
- Select **Enable automatic master data entry** for license plates that are no longer valid.
- Create up to 10 additional fields in the master data fields.
  These are displayed when you add or edit a license plate.
- Select **Required field** and/or **Search field** to specify that an entry must be made in this field (required field) and/or it is possible to search for this data (search field).
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Device Manager

General

- If necessary, alter the **name** of the image data server.
- Select the **failover server**.
  In the event of the failure of the image data server, all connected devices are transferred to the failover server.

Note that the failover server must have sufficient capacity to take over the devices.

- Specify the **time of the data aging search**.
- Select **Accesses to video sources** to exclude these events from automatic deletion.
- Select the period after which the events are automatically deleted.
- Click the **Display statistics** button to display the events.

- Click the **Remove from the system** button to remove the Device Manager server from the system configuration.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Options

- If necessary, alter the **port for SIP messages**.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Image data export

- Select the automatic export of the image data.
- Create the **export path** for the automatic storage of the image data, or click the **Select path** button to select the folder directly in Windows Explorer.
- Click the **Check path** button to check the availability of the specified folder.
- Specify the **time** of the export.
- Select **Export image data of the last 24 hours** to add current events to the export.
- Specify a **password**, with which the image data is encrypted.
- Create the **temporary export folder on the server** for the manual storage of the image data, or click the **Select path** button to select the folder directly in Windows Explorer.
- Specify a **password**, with which the image data is encrypted.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

11.2.18 System

The **System** function on the **Administration** tab allows you, for example, to configure and manage system-wide settings for the network, automatic backups as well as communication settings and event management settings.

Backup

- Select **Use automatic backup** to schedule automatic backups.
- Select the time and start time of the **backup**.
- If necessary, edit the **storage path** for data backup or click the **Select** button to select the folder directly in Windows Explorer.
- Select **Delete old data** to delete existing backups before the data is backed up.
- Click the **Perform backup** button to carry out the data backup immediately.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Company calendar

In the company calendar you specify the days to be handled in time templates separately from normal weekdays (e.g. public holidays or non-working days). Time templates are created in the Time Manager. They allow the precise specification of recording periods or times in which alarm scenarios are started.

- Hold down the CTRL key to select the days of the month to be added to the time template.
- Click the **Decade** button to select the year.
- Click the **Year** button to select the month.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

SMTP server

- Select the SMTP server to specify an outgoing mail server via which the emails are to be sent.
- Specify the network address of the SMTP server and the port number.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Email Manager

- Click the **Add new email list** button, and then specify the name of the new list.
- Click **OK** to confirm.
  The new list is displayed.
- To remove the list, select it and click the **Delete all email lists marked for deletion** button.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

SNMP server

- Select the SNMP server to set the network management protocol.
- Specify the IDs of the SNMP server and the port numbers.
- To check the settings, click the **Send SNMP test message** button.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

NAT list

- Click the **Add new NAT entry** button, and then specify the internal and public address.
- Click **OK** to confirm.
  The new list is displayed.
- To remove the list, select it and then click the **Delete all email lists marked for deletion** button.
- **Apply** the set values if you want to make further settings.
- **Save** the set values to apply the values and conclude input.

Event Manager

In the Event Manager you tidy up the event database.

General

- Select **Use automatic deletion**, and then select the period after which the event database is to be deleted.

- ► To tidy up the database manually, select **Delete only events that are older than**, and then specify the period.
- ► Click the **Delete events** button to delete the events in the selected period from the database.
- ► Specify the **time for the daily report** on the system events.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Error/warning/info

- ► Select all of the events in the list (SNMP events), and then click the **Edit selected objects** button.
- ► Select the actions to be carried out with the events.
- ► Click the **Back to overview** button to go back to the list of events.
- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Entity numbers

- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

Video classification

- ► Click the **Add new video classification** button, and then specify the **name** of the video classification.
- ► Click **OK** to confirm.
  The new video classification is displayed in the list.
- ► Select the video classifications you want to delete, and then click the **Delete video classifications marked for deletion** button.

The standard video classifications ("Superior quality", "High quality", "Balanced" and "Web") cannot be deleted; they can only be renamed.

- ► **Apply** the set values if you want to make further settings.
- ► **Save** the set values to apply the values and conclude input.

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