SIEMENS

SISTORE MX NVS

Application Software For Network-Based Video Recording

Configuration Manual

Version 2.60 or higher

Fire Safety & Security Products

Siemens Building Technologies

Contents

Safety

Target readers

The instructions in this document are designed for the following target readers:

Target readers	Qualification	Activity	Condition of the equipment
Operational startup personnel	Appropriate professional training regarding the function and units or systems to be brought into operation and training for the product.	Puts the device including the software into operation for the first time.	The software is not yet installed and configured.
Operator	Understands the instructions in the documentation and is able to apply them in practice. Has working knowledge of computers. Additional instruction by technical specialists is recommended.	Performs only the procedures for proper operation of the software.	The software is already installed and configured.

General safety instructions

General information

- Read the general safety precautions before operating the unit.
- Follow the safety notes attached to the unit.
- Keep this document for later reference.
- Keep this document with the product upon transfer.

Liability claim

- Use only spare parts and accessories approved by the manufacturer.

Damage due to improper handling

- Protect the CD from scratching.
- To clean the CD use a soft dry cloth.

Transport

Damage during transport

- Always transport the CD in the case it originally came in.

Operational setup

Dangerous situation due to false alarm

- Make sure to notify all relevant parties and authorities providing assistance before testing the system.
- To avoid panic, always inform all those present before testing any alarm devices.

Installation

Data loss after software update

- Make sure to backup all data before updating the software.

Storage

Risk of electric shock during maintenance

- Damage due to improper storage
- Always store the CD in its protective case.
- Keep the CD in an environment with a relative humidity of 10 – 90 %.
- Keep the CD between -5 and +55 °C.
- Do not store the CD in excessively dusty places.
- Do not keep the CD close to sources of magnetic radiation.
- Protect the CD from moisture.
- Protect the CD from direct sunlight.

Meaning of the signal words

Signal word	Type of risk
DANGER	Danger of death or severe bodily harm
WARNING	Possible danger of death or severe bodily harm
CAUTION	Danger of minor bodily injury or property damage
IMPORTANT	Danger of malfunctions

Meanings of the hazard symbols

WARNING **Warning of a hazard area**

WARNING **Warning of dangerous electrical voltage**

Details for ordering

Type	Order No.	Designation
SISTORE MX NVS 4	S24245-P5099-A1	Software license 4 - recording of up to 4 network cameras
SISTORE MX NVS 9	S24245-P5099-A2	Software license 9 - recording of up to 9 network cameras
SISTORE MX NVS 16	S24245-P5099-A3	Software license 16 - recording of up to 16 network cameras
SISTORE MX NVS 32	S24245-P5099-A4	Software license 32 - recording of up to 32 network cameras

Accessories, not included in delivery!

Type	Order No.	Designation
USBOPTO8	2GF4811-8CH	USB input module - 8 channels with optocoupler function
USBREL8	2GF4811-8CG	USB output module - 8 channels with relay function
USBOPTOREL16	2GF4811-8CJ	USB input and output modules with 16 optocoupler inputs and 16 relay outputs

Note
The software license you purchase should correspond to the number of cameras installed in your system. The license cannot be upgraded at a later date.

Scope of delivery

- USB dongle for software license with 4, 9, 16 or 32 network cameras

Dongle 4	Operation of 4 network cameras
Dongle 9	Operation of 9 network cameras
Dongle 16	Operation of 16 network cameras
Dongle 32	Operation of 32 network cameras

Note
If no USB dongle is installed, the software only runs in demo mode.
In demo mode you can configure and evaluate only one network camera.

- CD
  - Software SISTORE MX NVS
  - SISTORE MX NVS Configuration Manual and User Manual
  - SISTORE MX NVS Installation Manual
- Supplement Getting Started in six languages

Software description

SISTORE MX NVS (**N**etwork based **V**ideo **S**oftware) is an application software. The application software can be used for the following purposes:

- Stand-alone system:
  SISTORE MX NVS is installed on **1** PC, the video streams of max. **32** IP cameras are recorded and evaluated on site.
- Client/server system:
  SISTORE MX NVS is installed on **1** to max. **10** server PCs, the video streams of max. 32 IP cameras per server PC are recorded.
  SISTORE RemoteView is installed on **1** to max. **16** client PCs. All PCs are connected via LAN. Search and evaluation of the video data is performed on the client PC.

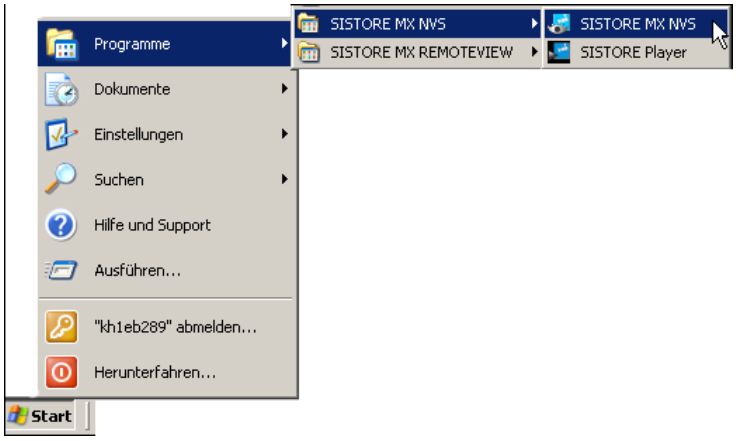
Starting the SISTORE MX NVS application software

You have two options to start the SISTORE MX NVS application software:

1. Double-click on the desktop shortcut ***SISTORE MX NVS***.

or

2. Select the directory ***SISTORE MX NVS*** in the Windows start menu.



Selecting other manuals

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in display mode.
  See Section *"Display mode", page 13*

Click the  icon in the toolbar to access additional manuals.

SISTORE MX NVS application software

Display mode

Purpose

In display mode, the live images of the connected cameras are displayed and all events that occur, such as camera failure, alarm inputs and malfunctions, are logged.

Fig. 1 SISTORE MX NVS application software in display mode

Playback mode

Purpose of playback mode

The recordings can be evaluated in playback mode. The database enables a flexible, precise search for particular events and the related camera images. Access to this mode is controlled by authorization level and can be subject to dual control. Camera recording and live image display continue to run in playback mode.

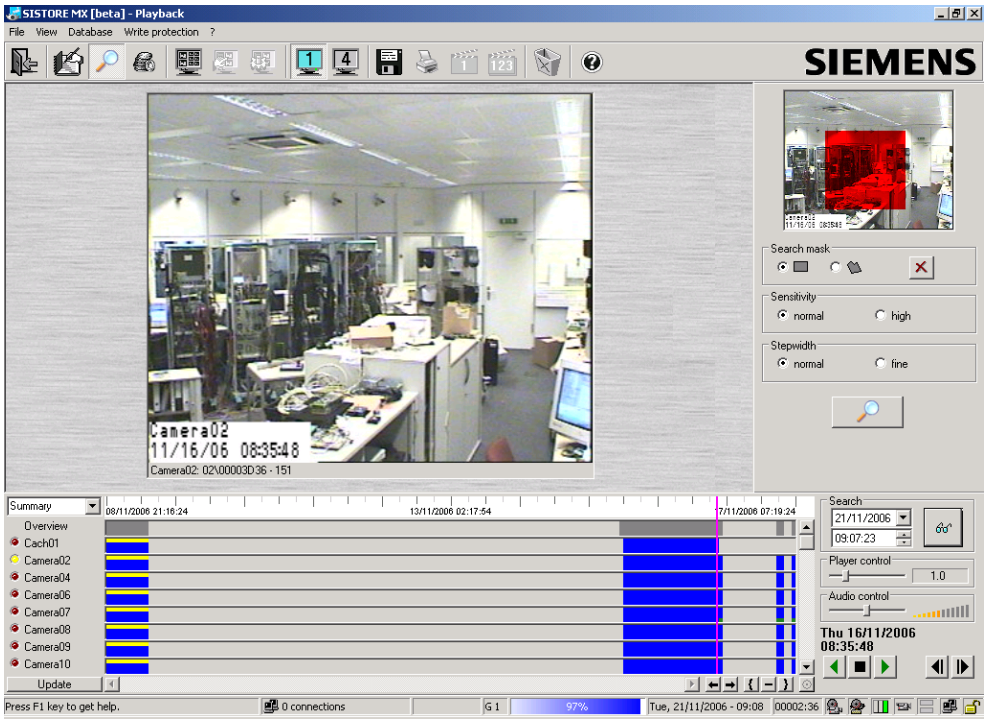


Fig. 2 SISTORE MX NVS application software in playback mode

Configuration mode

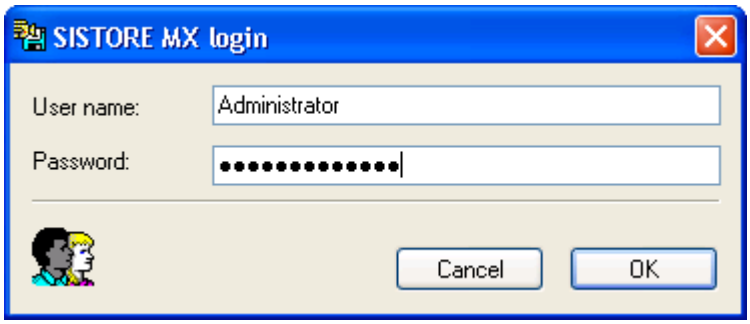
Purpose of the configuration mode
Configuration mode offers the following functions:
Assignment of user rights, configuration of the digital IP cameras, of the alarm inputs and all other inputs and outputs
Camera settings for motion detection, alarm contact, output contact, time control, alarm forwarding, transmission, e-mail and SMS
Network parameters such as ISDN or LAN with bandwidth limitation

Open configuration mode
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12.*
- The SISTORE MX NVS application software is in display mode.

Click the **Login** button  .

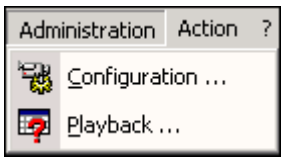
1. The SISTORE MX NVS login dialog will open.



2. The first time you log in, enter *Administrator* in the **User name** field.
3. The first time you log in, enter *Administrator* in the **Password** field.

NOTE:
Change the password after the first login, or create a new user.

4. Select **Configuration...** from the **Administration** menu.



➔ The configuration mode will open.

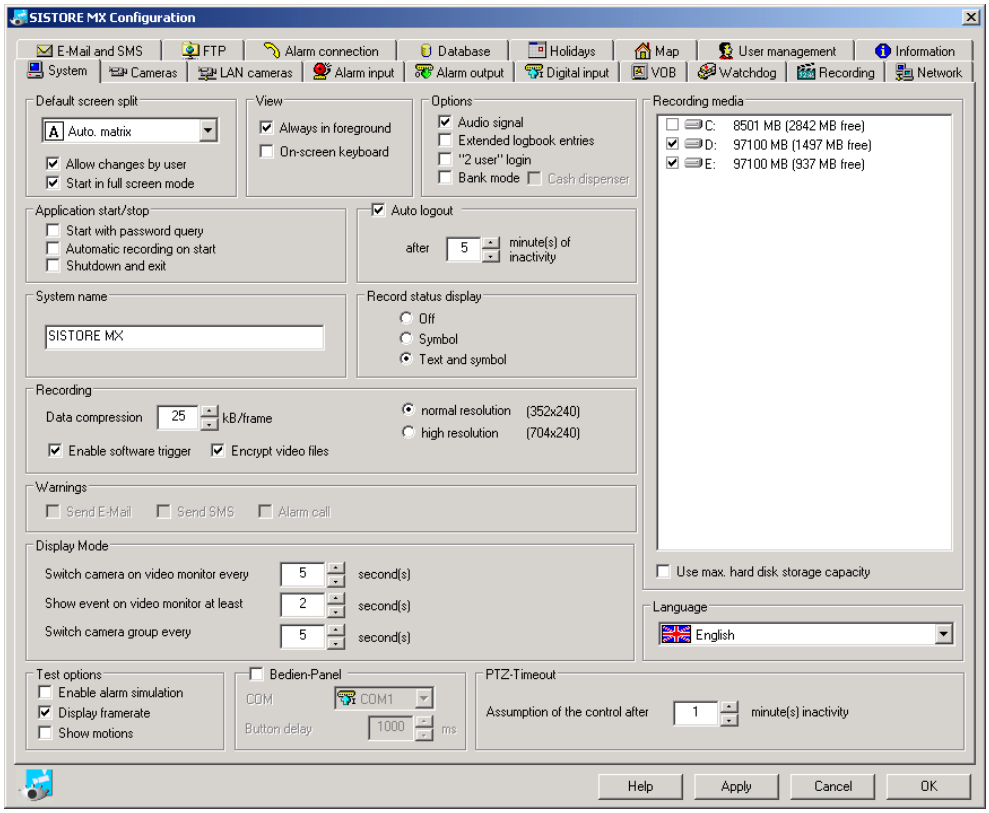


Fig. 3 SISTORE MX NVS application software in configuration mode

1.1.1 SISTORE MX NVS time control dialog

Configuring time control

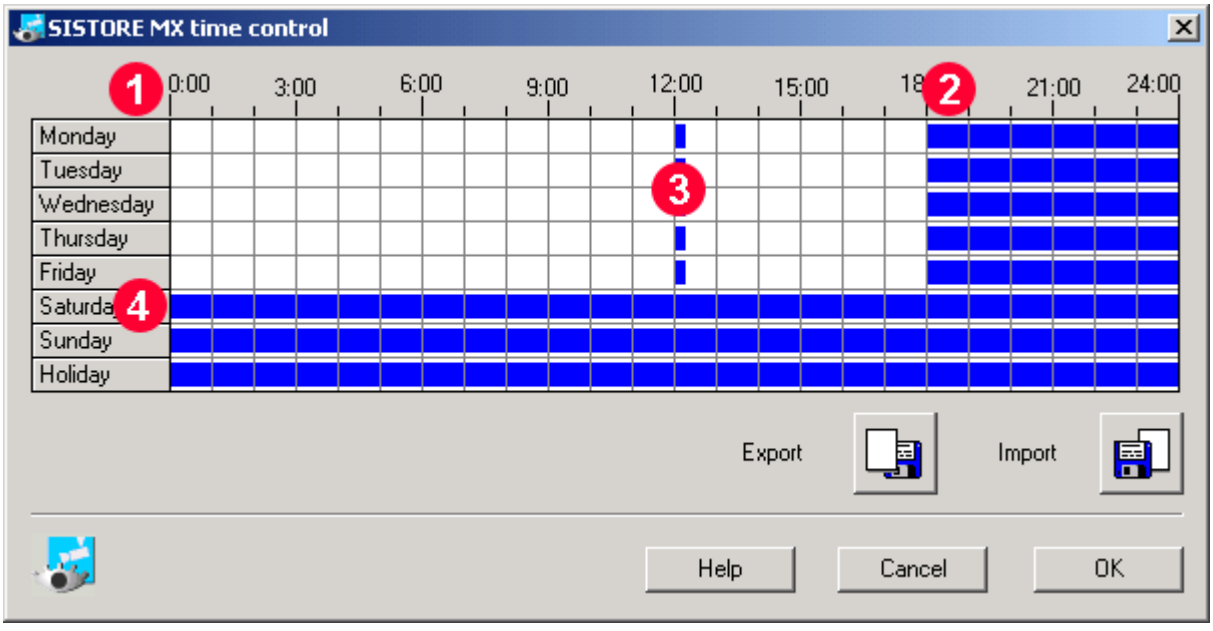


Fig. 4 Click points in the SISTORE MX NVS *time control* dialog

In general	**left-click to select, right-click to remove a selection**
1	A click at this position affects the entire time table.

2 A click at this position affects a column (= one hour).
3 A click at this position affects an individual time segment (= 20 minutes).
4 A click at this position affects a row (= one day).

Tip: By clicking and dragging on the click points 2 or 3 you can conveniently select or deselect multiple columns or time segments.

Exporting a time control file
The **Export** button can be used to back up the time control file and transfer it to other systems.

5. Click the **Export** button  .
➔ The **Save As...** dialog will appear.
6. Select the directory into which you would like to export the time control file.
7. Enter a name in the **File name** field.
8. Click **Save**.
➔ The time control file will be exported.
➔ Importing time control
You can import a saved time control file with the **Import** button.

NOTE:
If the time control has already been configured, this configuration will be replaced.

9. Click the **Import** button  .
➔ The **Open** dialog will appear.
10. Select the time control file to import.
11. Click **Open**.
➔ The time control file will be imported.

SISTORE RemoteView

The SISTORE RemoteView application software provides you with the option of convenient remote access evaluation of existing video sequences. SISTORE MX NVS functions as the server with SISTORE RemoteView as the client. This makes evaluation from any location possible if the SISTORE MX NVS system and the PC intended for evaluation are networked. Finally a connection via LAN, DSL or ISDN to the SISTORE MX NVS system is then required.

NOTE:
The time zones of the SISTORE RemoteView and the SISTORE MX NVS server must be set the same, otherwise display errors will occur (such as incorrect time display).

NOTE:
You must have administrative rights to install and run the SISTORE RemoteView application software on the PC.

SISTORE WebView

The SISTORE MX NVS servers can be operated not only with SISTORE MX NVS RemoteView but also using a browser.
Use the following browsers for this:

- Microsoft Internet Explorer 6.x or later

SISTORE MX NVS WebView allows the use of all viewing functions of the video system over the network on a client PC.

SISTORE MX NVS WebView provides the following functions:

- Retrieval and playback of video recordings
- Display of live images
- Bandwidth limitation of the video server
- Password protection, users and passwords are set up on each SISTORE MX NVS server via the user administration.
- Live image display, up to 16 live images in parallel, with random access to cameras connected to various SISTORE MX NVS servers (multi-server access) for logged in users with the user right "Display".
- Playback of saved images, only 1-channel playback.
- Search by date and time
- Playback control: forward, reverse, single image step

As a web solution, SISTORE MX NVS WebView and the MX Video Server are installed on a dedicated server and can be loaded and operated by any number of Windows clients. The prerequisite is that the client be connected to the web server via TCP-IP with Microsoft Internet Explorer and the Java Runtime Environment installed in the versions required.
SISTORE MX NVS WebView can be run in German or English.
From the operating stations, any camera – regardless of the associated station – can be selected. The images are output on the monitors of the client PCs.

NOTE:
As of version 2.60, the SISTORE WebView software is an independent product and has to be ordered separately.

Setup

Examples of system design

SISTORE MX NVS server PC

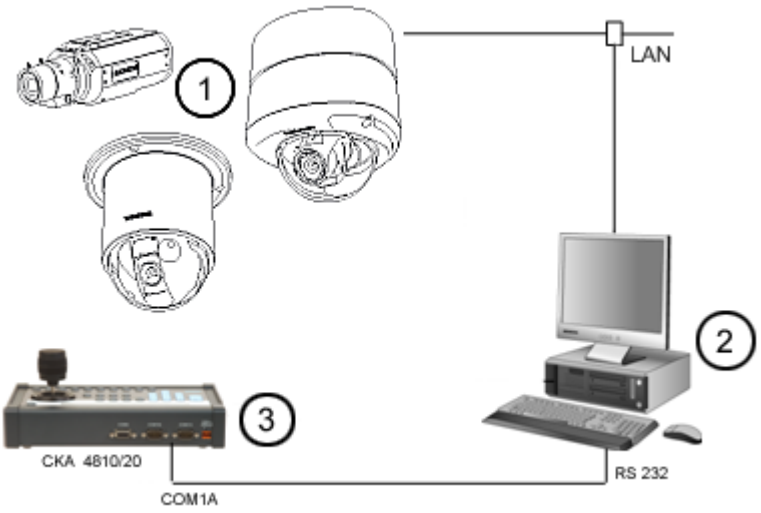


Fig. 5 *SISTORE MX NVS* system overview

1	Max. 32 IP cameras or IP domes
2	MX NVS server PC
3	CKA4810/20 (optional)

General information about network cameras

Be aware of the following when using network cameras:

- The image quality of network cameras is generally inferior to that of analog cameras. The reason for this is the compression required to reduce the load on the network.
- Multiple users can access network cameras simultaneously. Simultaneous access by multiple users lowers the frame rate.
- Settings made by a user on a network camera, such as modifying the image parameters via a browser, have system-wide effects.

SISTORE MX NVS supports the following network cameras:

Arecont	Vision 2100, Vision 3130 Day, Vision 3130 Night
Axis	205, 206/W, 206M, 210, 211, 212 PTZ, 213 PTZ, 216FD, 221, 223M, 231D+, 232D+, 240Q, 241Q, 241S, Generic HTTP Interface V1.0, Generic HTTP Interface V2.0
CBC	MP2A, MP3DN Day, MP3DN Night
Digilan	TV7214
Eneo	ENC-1003L
IQ invision	IQ501, IQ603, IQ 752
JVC	VN-C10U; VN-C30U, VN-C625U, VN-C655U
Lumenera	LE175C, LE275C, LE375C
Mobotix	D12 one or two cameras, M1 Models, M10 Models, M10D-Night, M12 Models, M12D-Night, M22M
Panasonic	KX-HCM-280, WV-NM100/G, WV-NP244E, WV-NP472, WV-NS202, WV-NS320, WV-NW470
Pixord	205
Samsung	SNC-L200
Siemens	CCIS1337-LP, CCIx1345, CFVA-IP NTSC, CFVA-IP PAL, CVVA-IP NTSC, CVVA-IP PAL, TELSCAN WEB Server
Sony	Generic HTTP interface, SNC-CS11, SNC-CS3P, SNC-DF40P, SNC-M1/W, SNC-M3/W, SNC-P1, SNC-P5, SNC-RZ25P, SNC-RZ30P, SNC-Z20P, SNT-V704

Depending on the functional scope of the network camera, many operating elements of the **LAN cameras** tab may be disabled.
Altogether a maximum of 32 network cameras can be connected.
Limitation: Network cameras cannot be connected to analog video outputs.

Access to network cameras takes place with significantly greater **latency**. The reason for this is the greater communication load between the SISTORE MX NVS and a network camera.
Network cameras cause a significantly higher processor load of the SISTORE MX NVS than analogue cameras. The frame rates required are the determining factor. The operation of the system can be slow if all connections for network cameras (32) are used.

NOTE:
To keep the processor load below 90%, we recommend setting the resolution of network cameras low (CIF format). The image quality should be set to approximately 70 %. The following rule applies: The higher the performance of the server PC, the higher the image quality and the lower the processor load. See *Fig. 25*, page *39* for further information.

Exact specifications for the image quality and the required hard drive capacity are not possible with network cameras, since each network camera has different quality levels and interprets specifications differently.

SISTORE MX NVS - IP camera - CKA4810/20

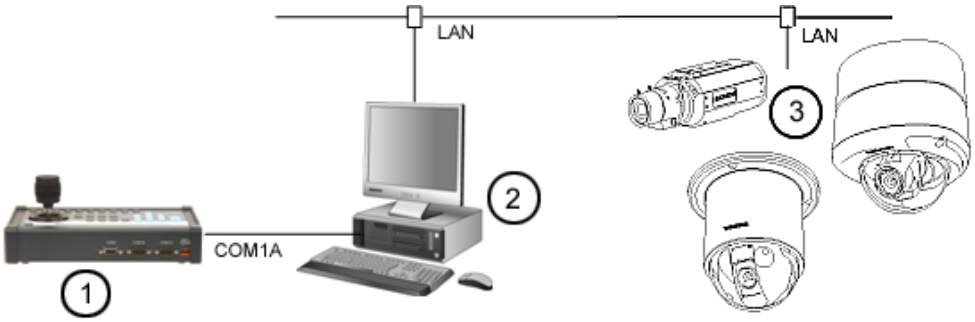


Fig. 6 SISTORE MX NVS – IP camera –– CKA4810/20 system overview

1	CKA4810/20
2	MX NVS server
3	Max. 32 IP cameras

Prerequisite:
The CKA driver is installed (please refer to the Installation Guide, Section 6.2).

1. Connect the CKA4810 / 4820 control panel (COM1A port) to the MX NVS server (COM1/COM2).
2. Configure the COM1A connection on the operating console for use as an RS232 interface. For more information please refer to the respective instruction manual for control panel CKA4810 / CKA4820.

3. Start the SISTORE MX NVS application software.
4. Switch to configuration mode.
5. Mark the checkbox **CCTV keyboard** on the **System** tab.
6. Click **Apply**.
➔ The setting will be saved.
➔ The interface for the operating console is enabled.

Connections

Signal	**MX NVS Server SISTORE RemoteView**	**CKA4810 / CKA4820 9-pin SubD plug**
GND	5	5
Rxd	3	2
Txd	2	3

Interface configuration CKA4810 / CKA4820
- Protocol: SIMATRIX RS-232 or SIEMENS IVM
- Baud rate: 9600
- Parity: none

SISTORE MX NVS - SISTORE RemoteView - CKA4810 / CKA4820

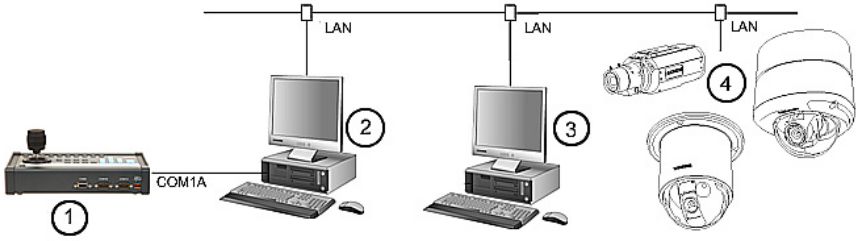


Fig. 7 *SISTORE MX* NVS – *SISTORE RemoteView – CKA4810* system overview

1	CKA4810/20
2	Client PC with RemoteView
3	MX NVS server
4	Max. 32 IP cameras

Prerequisite:
The CKA driver is installed (please refer to the Installation Guide, Section 6.2).

1. Connect the CKA4810/CKA4820 control panel (COM1A port) to the client PC (COM1/COM2).
2. Configure the COM1A connection on the operating console for use as an RS232 interface. For more information please refer to the respective instruction manual for control panel CKA4810 / CKA4820.

3. Start the SISTORE MX RemoteView application software.
4. Switch to configuration mode.
5. Mark the checkbox **CCTV keyboard** on the **System** tab.
6. Click **Apply**.
➔ The setting will be saved.
➔ The interface for the operating console is enabled.

Connections

Signal	**Client PC SISTORE RemoteView**	**CKA4810 / CKA4820 9-pin SubD plug**
GND	5	5
Rxd	3	2
Txd	2	3

Interface configuration CKA4810 / CKA4820
- Protocol: SIMATRIX RS-232 or SIEMENS IVM
- Baud rate: 9600
- Parity: none

SISTORE MX NVS – SISTORE MX NVS RemoteView – multiserver mode

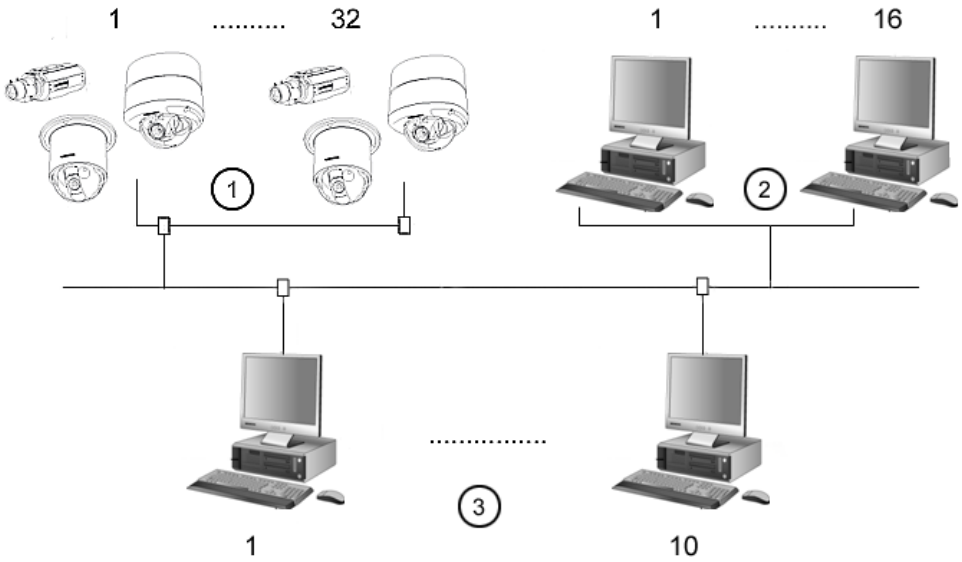


Fig. 8 *SISTORE MX NVS – SISTORE RemoteView – CKA4810* system overview

1	1 ... max. 32 IP cameras / IP domes
2	1 … max. 16 Client PCs
3	1 … max. 10 MX NVS servers

Minimum system configuration
1 x server MX NVS, 1 x IP camera

Maximum system configuration
16 x SISTORE MX NVS RemoteView Client PC
10 x SISTORE MX NVS server, each with 32 IP cameras = 320 IP cameras

SISTORE MX NVS - MX Multi Channel Box RCI 0601 and ATM

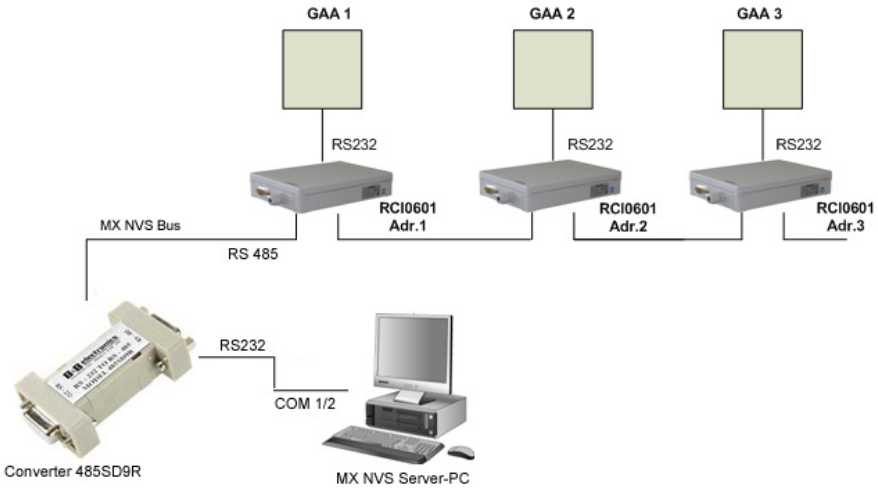


Fig. 9 MX NVS - Multi-Channel Box RCI 0601and ATM system overview

1. Connect the MX Multi-Channel Box to the SISTORE MX NVS server PC (COM1/COM2).
For this you require the converter 485SD9R (B&B Electronics).
2. Connect the ATM to the RCI 0601. For more information, refer to the user guide for the MX Multi-Channel Box RCI 0601.
3. Start the SISTORE MX NVS application software.
4. Switch to configuration mode.
5. Select the **System** tab.
6. Mark the **Bank mode** checkbox.
7. Terminate the SISTORE MX NVS application software and restart it.
8. Switch to configuration mode and mark the **Cash dispenser** checkbox.
9. Configure the cash dispenser mode. For more information please refer to the Configuration Manual, pp. 144.
10. Restart the PC.

➔ The SISTORE MX NVS application will be restarted (automatically or via the start icon on the desktop). The ATM handler module will be started as well (see task bar).

Network configuration

Entering the system name

The system name is used primarily for identification of the system during remote access. Enter the location of the system, for example.

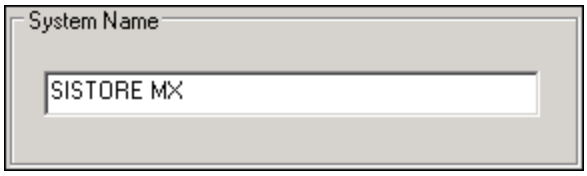


Fig. 10 The *System Name* text field on the *System* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section *"*Starting the SISTORE MX NVS application software*", page 12* for further information.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Enter the desired designation in the **System Name** text field (see *"Fig. 10 ", page 25*).
3. Click **Apply**.
➔ The setting will be saved.

Configuring the network connection

NOTE:
If you operate the SISTORE MX NVS application software or SISTORE RemoteView behind a firewall and want to access via a network, open all ports in the firewall that are used by the software.

All users logged in to the SISTORE MX NVS application software (locally or via SISTORE RemoteView) can simultaneously view live images or recordings and alarm outputs.
All connections between the SISTORE MX NVS application software and users logged in via SISTORE RemoteView will be terminated automatically when the following events occur:

- The configuration of the SISTORE MX NVS application software is overwritten.
- Configuration mode is started in the SISTORE MX NVS application software.

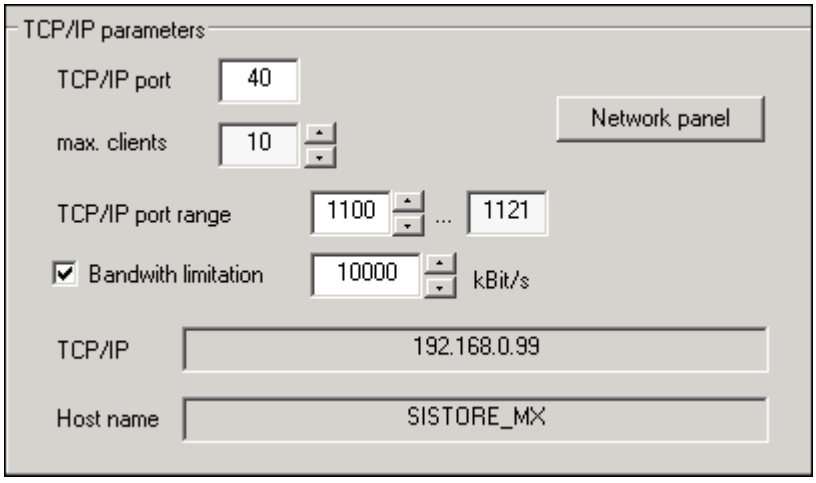


Fig. 11 *TCP/IP parameters* group on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Mark the checkbox **Allow network access** (see *"Fig. 11 ", page 26*).
   ➔ The *TCP/IP parameters* group will be activated.
3. Confirm the message that follows with **OK**.
4. In the **TCP/IP Port** field, enter the number of the port to be used by the SISTORE RemoteView clients for connecting to the SISTORE MX NVS application software.
5. In the **Max. clients** field, select the maximum number of SISTORE RemoteView clients that are permitted to connect simultaneously to the SISTORE MX NVS application software.
6. Enter the initial value of the TCP/IP port range in the field for **TCP/IP port range**.
   ➔ The end value of the TCP/IP port range is determined automatically. It depends on the **max. clients** value: two ports are needed for each client.
7. Click **OK**.
8. Confirm the message that follows with **Yes**.
   ➔ The settings will be saved. The SISTORE MX NVS application software will close.

Limiting bandwidth

NOTE:
The limitation of bandwidth can have the consequence that the SISTORE MX NVS client reacts very slowly to commands of a SISTORE RemoteView client.

Fig. 12 *Bandwidth limitation* checkbox on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12.*
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Mark the checkbox **Bandwidth limitation** (see *"Fig. 12 ", page 27*).
3. In the **kBit/s** text field, enter the maximum bandwidth that the SISTORE MX NVS application software is to use for a connection to a SISTORE RemoteView client.
4. Click **Apply**.
➔ The setting will be saved.

Configuring ISDN dial-in

NOTE:
Use the ISDN modem AVM FRITZ! USB v2.0.
We cannot guarantee proper function with other ISDN modems that have not been tested by us.

The SISTORE MX NVS application software and SISTORE RemoteView are **not downward compatible** as of version 2.2.
The SISTORE MX NVS application software reacts only to ISDN calls with the service indicator for **data**. Thus SISTORE RemoteView or the SISTORE MX NVS application software can be operated on an ISDN connection in parallel to ISDN devices with other service indicators.

Accept all incoming calls

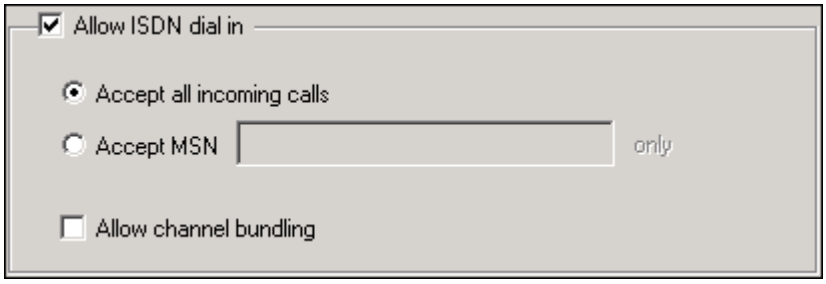


Fig. 13 *Accept all incoming calls* option field

Prerequisites

- The network has been set up in the operating system and is ready for use.
- An ISDN modem is connected to the SISTORE MX NVS unit.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Mark the checkbox **Allow ISDN dial in** (see *"Fig. 13 ", page 28*).
3. Click the option field **Accept all incoming calls**.
4. Click **Apply**.
➔ The settings will be saved.

React to certain multiple subscriber numbers

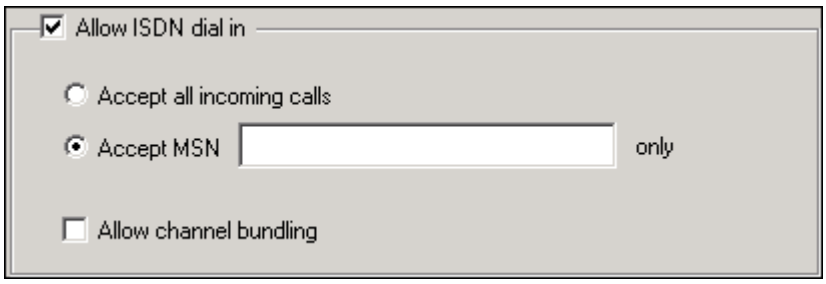


Fig. 14 *Accept MSN* option field on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- An ISDN modem is connected to the SISTORE MX NVS unit.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Mark the checkbox **Allow ISDN dial in** (see *"Fig. 14 ", page 28*).
3. Click the radio button by **Accept MSN ... only**.
4. Enter the desired multiple subscriber number in the **Allow MSN … only** text field.
5. Click **Apply**.
➔ The settings will be saved.

Activating channel bundling

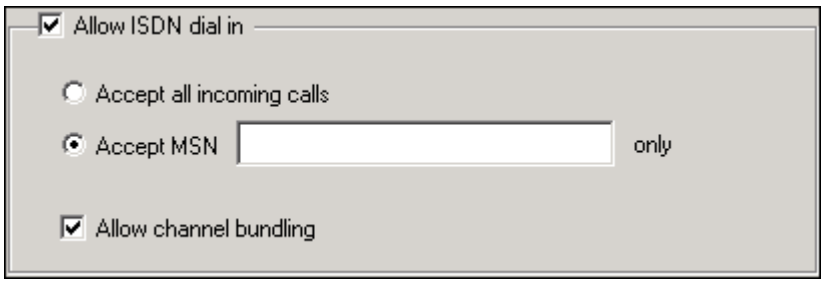


Fig. 15 *Allow channel bundling* checkbox on the *Network* tab

Prerequisites

- An ISDN modem is connected to the SISTORE MX NVS unit.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- Allow ISDN dial-in is configured.
  See Section *"*

Accept all incoming calls*", page 28* and Section *"*React to certain multiple subscriber numbers*", page 28* for further information.

1. Select the **Network** tab.
2. Mark the checkbox **Allow channel bundling** (see *"Fig. 15 ", page 29*).
3. Click **Apply**.
➔ The setting will be saved.

Configuring the live image server

With SISTORE WebView you can access the live images and recordings of one or more SISTORE MX NVS units. To do so, enter an IP address and port number in the SISTORE MX NVS application software.

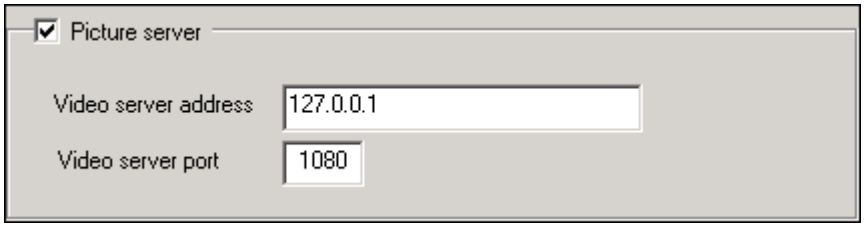


Fig. 16 *Picture-Server* in the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section *"*Starting the SISTORE MX NVS application software*", page 12* for further information.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Mark the checkbox **Picture server** (see *"Fig. 16 ", page 30*).
3. Enter the IP address of the image server in the **Video server address** text field.
4. Enter the port number of the image server in the **Video server port** text field.
5. Click **Apply**.
   ➔ The settings will be saved.

Controlling network access

Adding a connection filter

NOTE:
Please note when setting up filters for multiple subscriber numbers (MSNs) that these are communicated differently depending on the telephone system. The formulation of a filter must match the transmission method of your telephone system.

You can refuse certain telephone numbers and IP addresses network access to the SISTORE MX NVS application software. To do this set up an appropriate connection filter in the *Reject incoming calls* list field. Wildcards (*) can be used to group IP addresses or telephone numbers.
In order to make an exception for a telephone number or IP address in a group of banned telephone numbers or IP addresses, add a connection filter for it to *Allow incoming calls*.
Example: In the list field *Reject incoming calls* set up the connection filter *127.** and in the list field *Allow incoming calls* set up the connection filter *127.0.0.99*.

NOTE:
IP addresses or telephone numbers for which a connection is refused receive **no information** or no error message.

Result:
➔ None of the IP addresses beginning with *127.* are allowed to access the SISTORE MX NVS application software except the IP address *127.0.0.99*.

Allow connection

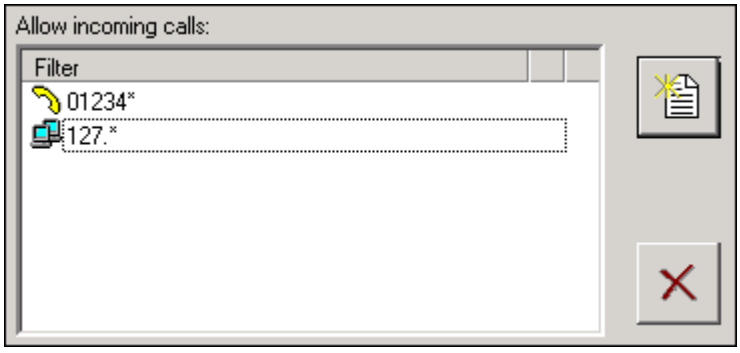


Fig. 17 *Allow incoming calls* filter list on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Network** tab.
2. Click the **Add** button  next to the filter list **Allow incoming calls** (see *"Fig. 17 ", page 31*).
   ➔ A new text field will be created in the **Allow incoming calls** filter list.
3. Enter the telephone number or IP address that you want to allow in the new text field.
   ➔ Repeat steps 2 and 3 as often as required if you want to create multiple connection filters.
4. Click **Apply**.
   ➔ The setting will be saved.

Reject connection

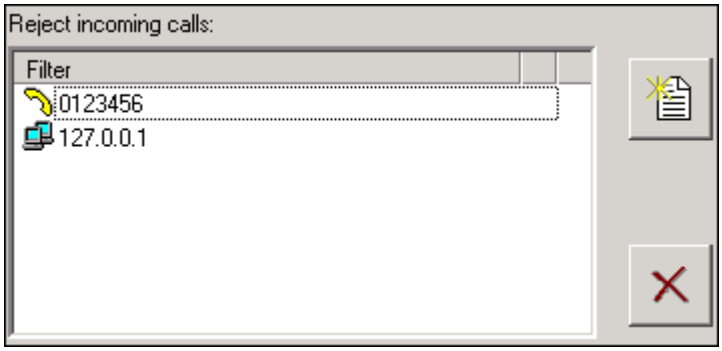


Fig. 18 *Reject incoming calls* filter list on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Network** tab.
2. Click the **Add** button  next to the filter list **Reject incoming calls**.
   ➔ A new text field will be created in the **Reject incoming calls** filter list.
3. Enter the telephone number or IP address that you want to block in the new text field.
   ➔ Repeat steps 3 and 4 as often as required if you want to create multiple connection filters.
4. Click **Apply**.
   ➔ The setting will be saved.

Editing connection filters

Fig. 19 The *Filter* text field on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Click on the connection filter you want to edit.
   ➔ The affected text field will be framed (see *"Fig. 19 ", page 33*).
3. Edit the connection filter.
4. Click **Apply**.
   ➔ The setting will be saved.

Deleting connection filters

Deleting an individual connection filter

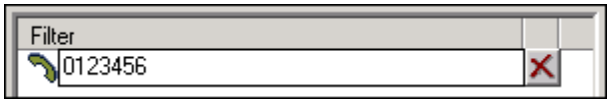


Fig. 20 Connection filter on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Network** tab.
2. Click on the connection filter you want to delete.
   ➔ A **Delete** button will be displayed on the right of the connection filter (see *"Fig. 20 ", page 33*).
3. Click the **Delete** button.
   ➔ The affected connection filter will be removed from the filter list.
4. Click **Apply**.
   ➔ The setting will be saved.

Deleting all connection filters

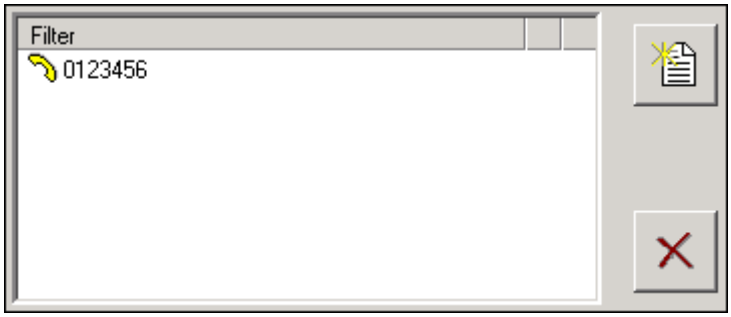


Fig. 21 Filter list on the *Network* tab

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE MX NVS application software is started.
  See Section *"Starting the SISTORE MX NVS application software", page 12* for further information.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Network** tab.
2. Click the **Delete** button next to the filter list for which you want to delete the filters.
3. Confirm the message that follows with **OK**.
4. If you no longer want to use connection filtering, unmark the checkbox **Filter incoming calls**.
5. Click **Apply**.
   ➔ The setting will be saved.

Network camera configuration

General information about network cameras

Be aware of the following when using network cameras:

- The image quality of network cameras is generally inferior to that of analog cameras. The reason for this is the compression required to reduce the load on the network.
- Multiple users can access network cameras simultaneously. Simultaneous access by multiple users lowers the frame rate.
- Settings made by a user on a network camera, such as modifying the image parameters via a browser, have system-wide effects.

SISTORE MX supports the following network cameras:

Arecont	Vision 2100, Vision 3130 Day, Vision 3130 Night
Axis	205, 206/W, 206M, 210, 211, 212 PTZ, 213 PTZ, 216FD, 221, 223M, 231D+, 232D+, 240Q, 241Q, 241S, Generic HTTP Interface V1.0, Generic HTTP Interface V2.0
CBC	MP2A, MP3DN Day, MP3DN Night
Digilan	TV7214
Eneo	ENC-1003L
IQ invision	IQ501, IQ603, IQ 752
JVC	VN-C10U; VN-C30U, VN-C625U, VN-C655U
Lumenera	LE175C, LE275C, LE375C
Mobotix	D12 one or two cameras, M1 Models, M10 Models, M10D-Night, M12 Models, M12D-Night, M22M
Panasonic	KX-HCM-280, WV-NM100/G, WV-NP244E, WV-NP472, WV-NS202, WV-NS320, WV-NW470
Pixord	205
Samsung	SNC-L200
Siemens	CCIS1337-LP, CCIx1345, CFVA-IP NTSC, CFVA-IP PAL, CVVA-IP NTSC, CVVA-IP PAL, TELSCAN WEB Server
Sony	Generic HTTP interface, SNC-CS11, SNC-CS3P, SNC-DF40P, SNC-M1/W, SNC-M3/W, SNC-P1, SNC-P5, SNC-RZ25P, SNC-RZ30P, SNC-Z20P, SNT-V704

Depending on the functional scope of the network camera, many operating elements of the **LAN cameras** tab may be disabled.

Access to network cameras takes place with significantly greater **latency** than access to analog cameras. The reason for this is the greater communication load between the SISTORE MX NVS and a network camera.
Network cameras cause a significantly higher processor load of the SISTORE MX NVS than analogue cameras. The frame rates required are the determining factor. The operation of the system can be slow if all network cameras (32) are used.

NOTE:
To keep the processor load below 90%, we recommend setting the resolution of network cameras low (CIF format). The image quality should be set to approximately 70%. See *Fig. 25*, page *39* for further information.

Exact specifications for the image quality and the required hard drive capacity are not possible with network cameras, since each network camera has different quality levels and interprets specifications differently.

Adding a network camera

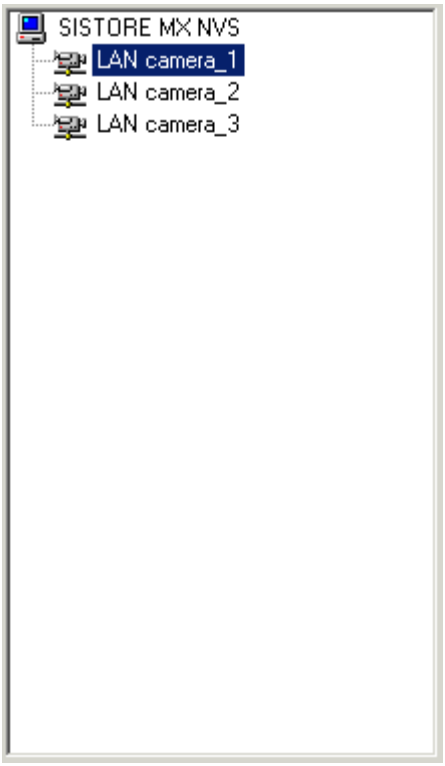


Fig. 22 Camera list on the *LAN cameras* tab

Prerequisites

- At least one network camera is connected to the SISTORE MX NVS.
  See Section *"*General information about network cameras*", page 35* for further information.
- The SISTORE MX NVS application software is started.
- See Section „Starting the SISTORE MX NVS application software*", page 12.*
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

NOTE:
Please take into account that the IP cameras are counted from **65** to **96**. We recommend integrating the camera number into the camera name, e.g. Door_1, Cam_2(66).

1. Select the **LAN cameras** tab.
2. Click the **Add** button  (see *"Fig. 23 ", page 37*).
   ➔ A network camera will be added in the camera list.
3. Enter a name for the camera in the **Name** text field.
4. Enter a short description, such as information on the camera position, in the **Description** text field.
5. Make the appropriate settings in the following fields:
   – Camera model / protocol
   – TCP/IP
   – Image quality and size
6. Repeat steps 2-5 for each camera.
7. Click **Apply**.
   ➔ The settings will be saved.

Deleting a network camera

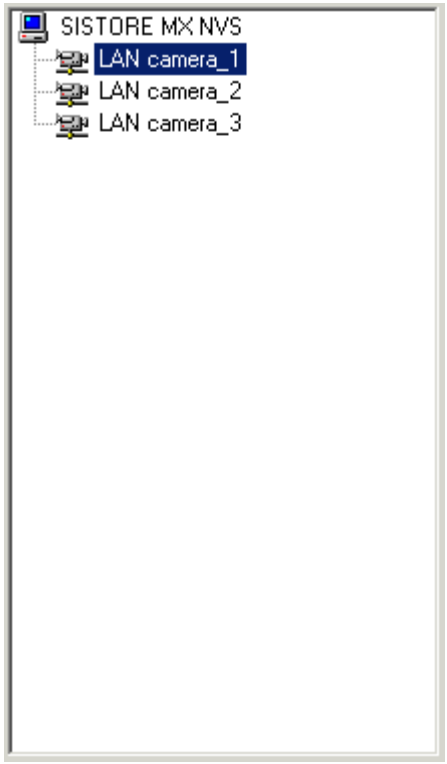


Fig. 23 Camera list on the *LAN cameras* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one network camera is in the camera list.
  See Section *"*Adding a network camera*", page 36* for further information.

1. Select the **LAN cameras** tab.
2. Select the camera you want to delete from the camera list (see *"Fig. 23 ", page 37*).
3. Click the **Delete**  button.
4. Confirm the message that follows with **OK**.
5. Click **Apply**.
   ➔ The setting will be saved.

Configuring image parameters

Setting brightness, contrast and color saturation

CAUTION	**Malfunction due to too dark live image** With an image brightness of 0, the SISTORE MX NVS receives only black images. Motion detection no longer functions. Select the standard setting 50%.

NOTE:
The slide controls for the image parameters are not activated for every network camera. For many network cameras the image parameters are instead set on the camera.

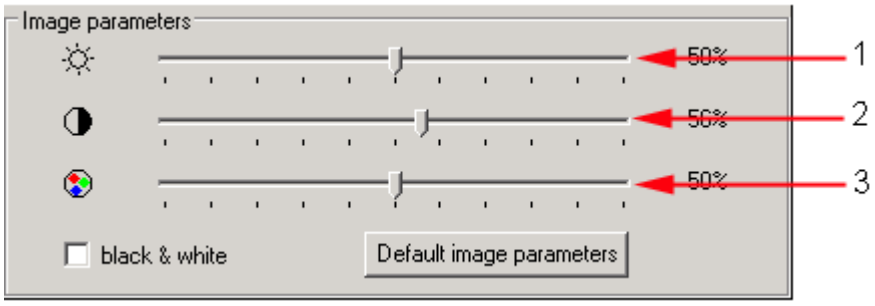


Image parameters	
1	Brightness
2	Contrast
3	Colour saturation

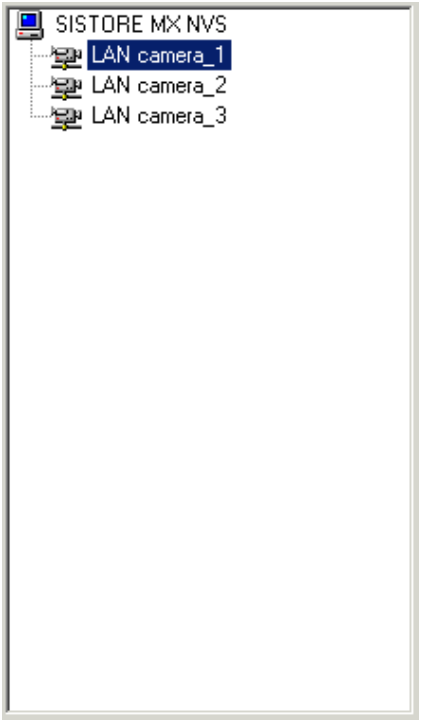


Fig. 24 Camera list on the *LAN cameras* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software", *page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15*.
- At least one network camera is in the camera list.
  See Section "Adding a network camera", *page 36* for further information.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the image parameters from the camera list.
3. Move the slide control to the right or to the left.
4. Click **Apply**.
   ➔ The setting will be saved.

Setting image quality and resolution

NOTE:
The higher the image quality, the less the image is compressed and the more network bandwidth is required for its transmission.
Which image sizes are available depends on the network camera used.
The transmission of live images from SISTORE MX NVS to SISTORE RemoteView takes place independent of the image size set in CIF format (352 x 288 pixels).

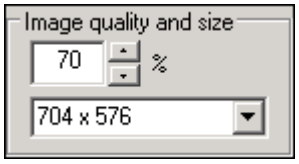


Fig. 25 *Image quality and size* group field on the *LAN cameras* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one network camera is in the camera list.
  See Section *"*Adding a network camera*", page 36* for further information.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the image quality and size from the camera list (see *"Fig. 23 ", page 37*).
3. Enter the image quality in the **%** text field (see *"Fig. 25 ", page 39*).
4. Select the image size from the dropdown list.
5. Click **Apply**.
➔ The setting will be saved.
➔ The setting will be saved.

Selecting the frame rate

The maximum frame rate is 100 frames/sec, distributed between 32 LAN cameras max.

Fig. 26 *Frames per second* group field on the *LAN cameras* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one network camera is in the camera list.
  See Section *"*Adding a network camera*", page 36* for further information.

1. Select the **LAN cameras** tab.
2. Select the desired network camera in the camera list.

CAUTION	**Poor recording quality due to too low frame rate** If the frame rate is too low, movements will no longer be recorded smoothly. The following reference value applies: maximum frame rate per camera = the maximum frame rate of the SISTORE MX NVS (100 frames/sec) divided by the number of network cameras connected to the SISTORE MX NVS.

3. Select the radio button with the desired frame rate (see *"Fig. 26 ", page 40*).
4. Click **Apply**.
➔ The setting will be saved.

Configuring automatic camera positioning

SISTORE MX supports the protocols of the following PTZ network cameras:

AXIS 212 PTZ/213 PTZ	Panasonic WV-NS202
AXIS 231/232 D+	Panasonic WV-NS320
AXIS Generic HTTP Interface V1.0 und V2.0	Samsung SNC-L200
JVC VN-C30U	Sony SNC-M3/W
JVC VN-C625U	Sony SNC-P5
JVC VN-C655U	Sony SNC-RZ25P
Panasonic KX-HCM280	Sony SNC-RZ30P
Panasonic WV-NM100/G	Sony Generic HTTP Interface
	VIVOTEK PZ6122

Tab. 1 PTZ network cameras and protocols supported by SISTORE MX NVS

Since different cameras from a manufacturer often use the same protocol, the list of cameras or protocols above may cover more network cameras than shown in the list.

Defining positions

Depending on the camera up to 32 positions can be defined. The positions are saved in the camera.

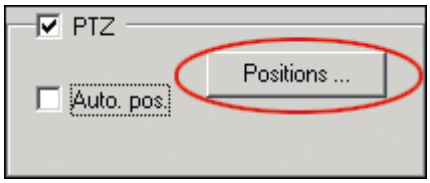


Fig. 27 *Positions...* button on the *LAN cameras* tab

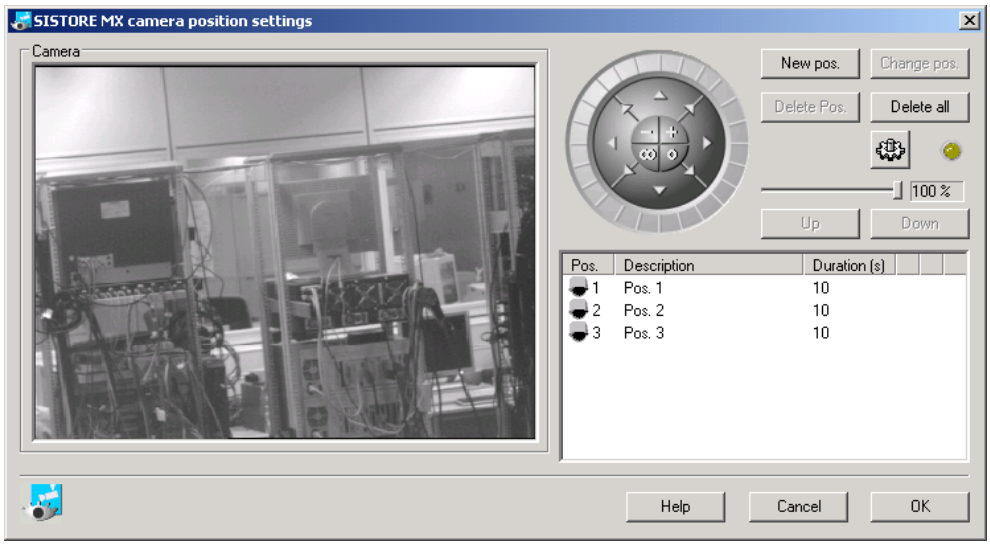
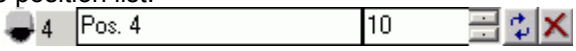


Fig. 28 SISTORE MX camera position settings via the Positions button on the LAN cameras tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one *controllable* network camera is in the camera list.

1. Select the **LAN cameras** tab.
2. Select the camera for which you want to configure the positioning from the camera list.
3. Click **Positions...** ().
   ➔ The SISTORE MX NVS **Camera position settings** window will open.
4. Move the camera to the desired position.

   You can control the camera with the mouse via the control element  , with the keyboard or with a joystick.
5. Click **New pos.** to save a position or on **Change pos** to replace a position.
6. Click on the new position in the position list.
   ➔ The position will be framed. 

7. Enter an appropriate position name in the **Description** text field.
8. Select the duration of the position display using the arrows on the **Duration (s)** field (or enter a value).
9. Click **OK**.
   ➔ The SISTORE MX NVS **Camera position settings** window will close.
10. Click **Apply** on the **LAN cameras** tab.
    ➔ The settings will be saved.

Additional functions	
Control element 	Camera control (pan, tilt, zoom)
Delete pos. button	Deletes the selected position
Delete all button	Delete all positions in the position list **Please note:** The positions will be deleted without confirmation!
Button 	Moves to the selected position
LED icon 	If bright yellow: the camera is currently being moved
Slide control 	Sets the control sensitivity (the speed with which a camera moves to a position can be reduced for better accuracy)
Up button	Moves the selected position up in the position list
Down button	Moves the selected position down in the position list

Activating automatic positioning (patrol)

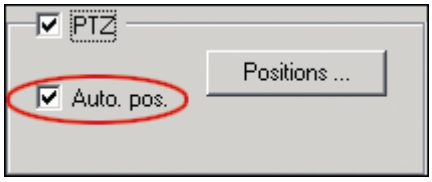


Fig. 29 Activating automatic camera positioning on the *LAN cameras* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one *controllable* network camera is in the camera list.
- At least two camera positions have been defined for the affected network camera. See the Section *Defining camera positions* (above) for more information on this.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **PTZ**.
3. Define the positions (see above).
4. Mark the checkbox **Auto. pos.**
5. Click **Apply**.
➔ The setting will be saved.

Releasing camera control

As long as a user is controlling a network camera, this camera is blocked for other users. In the **PTZ timeout** group field you can define the period without input after which the camera is released for all other users.

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section “Configuration mode“, *page 15* for further information.

1. Select the **System** tab.
2. Enter the period after which the network camera is to be released in the field "Assumption of the control after...".
3. Click **Apply**.
➔ The setting will be saved.

Configuring access to the configuration of the network camera

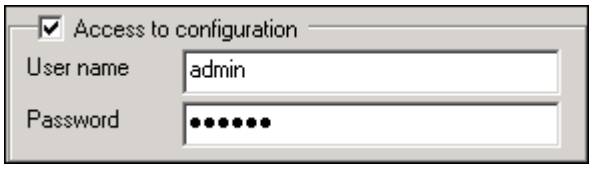


Fig. 30 *Access to configuration* group field on the *LAN cameras* tab

Prerequisites

- At least one network camera is connected to the SISTORE MX NVS unit.
  See Section *"Adding a network camera", page 36* for further information.
- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Access to configuration** (see *"Fig. 30 ", page 44*).
3. Enter a user name in the **User name** text field.
4. Enter a password in the **Password** text field.
5. Click **Apply**.
   ➔ The settings will be saved.

Configuring live image access

Fig. 31 *Access to images* group field on the *LAN cameras* tab

Prerequisites

- At least one network camera is connected to the SISTORE MX NVS unit.
  See Section *"Adding a network camera", page 36* for further information.
- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **LAN cameras** tab.
2. Mark the checkbox **Access to images** (see *"Fig. 31 ", page 44*).
3. Enter a user name in the **User name** text field.
4. Enter a password in the **Password** text field.
5. Click **Apply**.
   ➔ The settings will be saved.

Opening proprietary camera configuration dialogs

Some network cameras (such as those from Mobotix) have a wide range of functions that cannot be completely covered by the SISTORE MX NVS application software. Therefore you can access the configuration dialog of the network camera directly using a browser.

Fig. 32 *TCP/IP* group field on the *LAN cameras* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one network camera is in the camera list.
  See Section *"*Adding a network camera*", page 36* for further information.

1. Select the **LAN cameras** tab.
2. Enter the IP address of the relevant network camera in the **URL** text field.
3. Enter the port number of the network camera in the **Port** text field.
4. Click **Browser...**
➔ A browser window with the proprietary configuration dialog for the camera will open.

Configuring motion detection

Opening the motion detection dialog

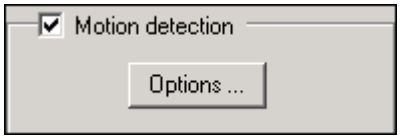


Fig. 33 *Motion detection* checkbox on the *Cameras* or *LAN cameras* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.
- At least one network camera is in the camera list.
  See Section *"Adding a network camera", page 36* for further information.

1. Select the **Cameras** or **LAN cameras** tab.
2. Mark the checkbox **Motion detection**.
   ➔ The **Options…** button will be enabled.
3. Click **Options...**
   ➔ The SISTORE MX NVS **Motion detection** window will appear.

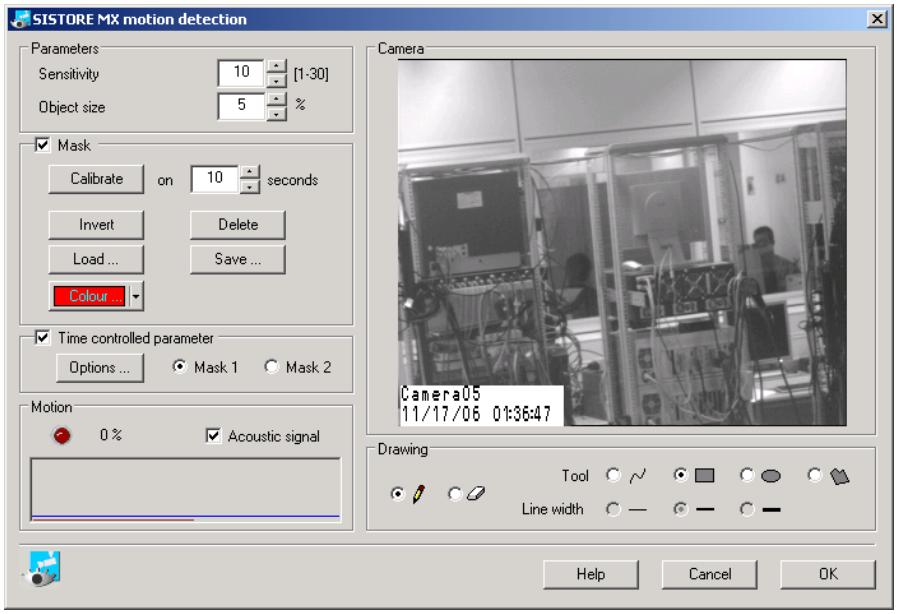


Fig. 34 The *SISTORE MX NVS motion detection* dialog opened with the *Options...* button on the *Cameras* or *LAN cameras* tab

Setting the sensitivity of motion detection

Use **Sensitivity** to determine how sensitively the SISTORE MX NVS reacts to motions, i.e. to the position change of an object.
With **Object size** you can govern the minimum size an object must have for it to be registered by the SISTORE MX NVS. The percentage refers to the object size in relation to the size of the detection area. If no detection area is defined, the entire recording area of the camera is taken as the detection area.

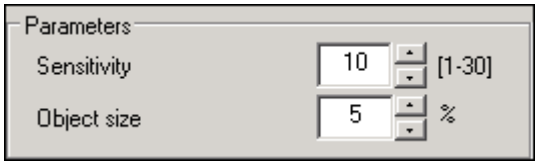


Fig. 35 Motion detection parameters in the SISTORE MX NVS *Motion detection* dialog

Prerequisites

- The SISTORE MX NVS **Motion detection** window is opened.
  See Section *"Opening the motion detection dialog", page 46*.

1. Enter the sensitivity level in the **Sensitivity** text field (see *"Fig. 35 ", page 47*).
2. In the **Object size** text field, enter the minimum size as of which objects are to be registered.
3. Click **OK**.
   ➔ The **SISTORE MX NVS motion detection** dialog will close.

Defining the detection area (mask)

You can define a detection area for analog and network cameras. Open the relevant tab in the SISTORE MX NVS application software.
You have three options to define a detection area for motion detection:

- Draw detection area
- Determine the detection area automatically
- Copy detection area (save and load)

Draw detection area

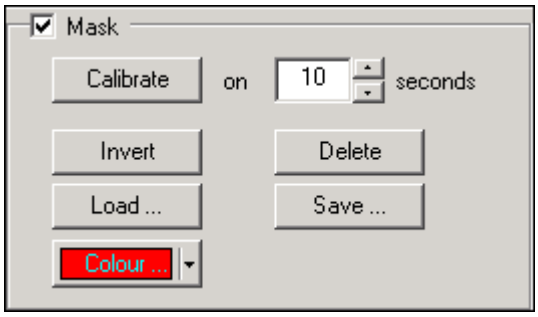


Fig. 36 *Mask* (= detection area) group field in the SISTORE MX NVS *Motion detection* dialog

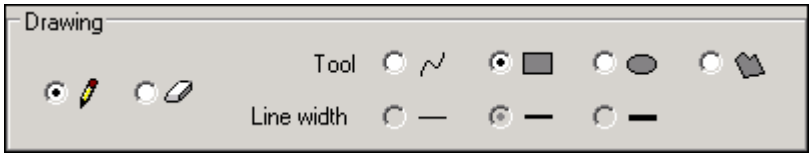


Fig. 37 *Drawing* group field in the SISTORE MX NVS *Motion detection* dialog

Prerequisite

- The SISTORE MX NVS **Motion detection** window is opened.
  See Section *"Opening the motion detection dialog", page 46*.

1. Mark the checkbox **Mask**.
   ➔ The **Mask** group field will be activated.
2. Select a drawing color from the **Color…** selection field.
3. Click the **pencil tool** radio button.
4. Select a shape tool in the **Tool** line.
5. If you have chosen the shape tool **Line**:
   Select the **line width**.
6. Draw the detection area in the live image of the camera.
7. Click **OK**.
   ➔ The setting will be saved. The SISTORE MX NVS **Motion detection** window will close.

Tip: The eraser tool allows you to correct the detection area. All the shape tools can be used together with the eraser tool.
Tip: It may be simpler for complex shapes to draw the negative of the detection area and then click **Invert**.

Determining the detection area automatically

Fig. 38 Determining the detection area in the SISTORE MX NVS *Motion detection* dialog

Prerequisite

- The SISTORE MX NVS **Motion detection** window is opened.
  See Section *"Opening the motion detection dialog", page 46*.

1. Mark the checkbox **Mask**.
   ➔ The **Mask** group field will be activated.
2. Enter in the **seconds** text field the period during which the detection area should be determined.
3. Click **Calibrate**.
4. Confirm the message that follows with **OK**.
   ➔ The detection area will be determined.

Copy detection area (save and load)

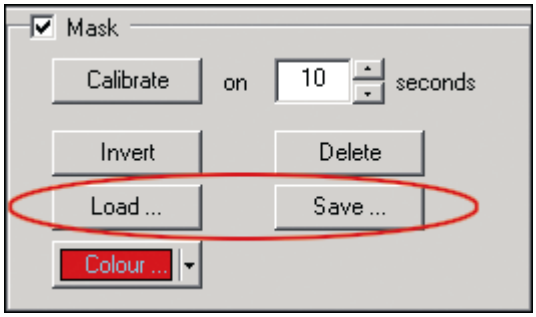


Fig. 39 Copying the detection area in the SISTORE MX NVS motion detection dialog

Prerequisite

- The SISTORE MX NVS **Motion detection** window is opened.
  See Section *"*Opening the motion detection dialog*", page 46*.

Saving the detection area

1. Click **Save ...**.
   ➔ The **Save As...** dialog will appear.
2. Select the directory in which to save the detection area file.
3. Enter a file name in the **File name** text field.
4. Click **Save**.
   ➔ The **Save As...** dialog will close. The detection area file will be saved.

Loading the detection area

1. Mark the checkbox **Mask**.
2. Click **Load ...**.
   ➔ The **Open** dialog will appear.
3. Select the detection area file you want to load.
4. Click **Open**.
   ➔ The **Open** dialog will close. The detection area will be displayed on the live image in the SISTORE MX NVS **Motion detection** dialog.

Configuring the time control of the detection area

The SISTORE MX NVS application software can switch between two detection areas based on the time. This permits, for example, a different detection area to be used during the day than the one at night.

Fig. 40 The *Time controlled parameter* group field in the SISTORE MX NVS *Motion detection* dialog

Prerequisite

- The SISTORE MX NVS **Motion detection** window is opened.
  See Section *"Opening the motion detection dialog", page 46*.

1. Mark the checkbox **Time controlled parameter**.
➔ The **Time controlled parameter** group field will be activated.
2. Click the **Mask 1** radio button (= detection area 1).
3. Set the sensitivity of the motion detection.
See Section *"Setting the sensitivity of motion detection", page 47*.
4. Define a detection area in the live image of the camera.
See Section *"Defining the detection area (mask)", page 47* for further information.
5. Click the **Mask 2** radio button (= detection area 2).
6. Repeat the steps 3 and 4.
7. Click **Options...**
➔ The SISTORE MX NVS **Time control** window will open.
8. Configure the time table.
See Section *"SISTORE MX NVS time control dialog", page 16*.
➔ Mask 1 (detection area 1) will be used in the selected (blue) time segments; mask 2 (detection area 2) will be used in the unselected (white) time segments.
9. Click **OK**.
➔ The settings will be saved. The SISTORE MX NVS **Time control** window will close.

Configuring sabotage detection

Opening the sabotage detection dialog

NOTE:
Sabotage detection is **not** possible with PTZ cameras.

Fig. 41 *Anti-tampering* (sabotage detection) checkbox on the *Cameras* or *LAN cameras* tab

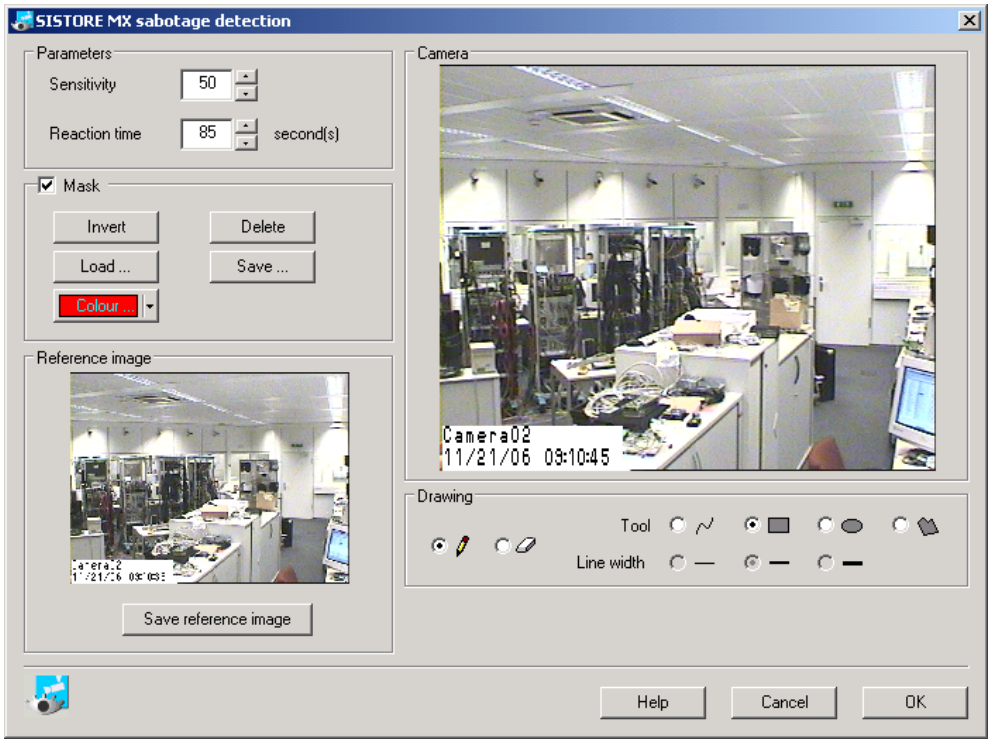


Fig. 42 The *SISTORE MX NVS sabotage detection* dialog opened with the *Options...* button on the *Cameras* or *LAN cameras* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one network camera is in the camera list.
  See Section *"*Adding a network camera*", page 36* for further information.

1. Select the **Cameras** or **LAN cameras** tab.
2. Mark the checkbox **Anti-tampering** (see *"Fig. 41 ", page 51*).
3. Click **Options...**
   ➔ The SISTORE MX NVS **Sabotage detection** window will open (see *"Fig. 42 ", page 51*).

Setting the sensitivity of sabotage detection

Use **Sensitivity** to determine how sensitively the SISTORE MX NVS application software should react to motions, i.e. to the position change of an object.
With **Reaction time** you can determine how much time should elapse before the SISTORE MX NVS application software registers changes in the detection area and reports them as tampering.
Prerequisite

- The SISTORE MX NVS **Sabotage detection** window is opened.
  See Section *"Opening the sabotage detection dialog", page 51*.

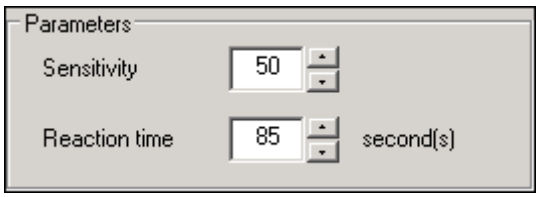


Fig. 43 *Parameters* group field in the SISTORE MX NVS *Sabotage detection* dialog

1. Enter a value in the **Sensitivity** text field (see *"Fig. 43 ", page 52*).
   ➔ The higher the value, the more sensitive the tampering detection function.
2. Enter a value in seconds in the **Reaction time** text field.
3. Click **OK**.
   ➔ The SISTORE MX NVS **Sabotage detection** window will close.

Defining the detection area (mask)

You can define a detection area for analog and network cameras. Open the relevant tab in the SISTORE MX NVS application software.
You have two options to define a detection area for sabotage detection:

- Draw detection area
- Copy detection area (save and load)

Draw detection area

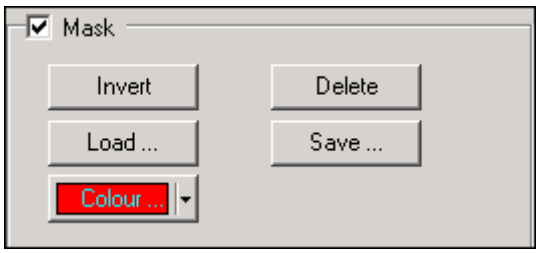


Fig. 44 *Mask* (= detection area) group field in the SISTORE MX NVS *Sabotage detection* dialog

Fig. 45 *Drawing* group field in the SISTORE MX NVS *Sabotage detection* dialog

Prerequisite

- The SISTORE MX NVS Sabotage detection window is opened.
  See Section *"Opening the sabotage detection dialog", page 51*.

1. Mark the checkbox **Mask**.
  ➔ The **Mask** (= detection area) group field will be activated.
2. Select a drawing color from the **Color…** selection field.
3. Click the **pencil tool** radio button .
4. Select a shape tool in the **Tool** line.
5. If you have chosen the **Line** shape tool:
  Select the **line width**.
6. Draw the detection area in the live image of the camera.
7. Click **OK**.
  ➔ The setting will be saved.

Tip: The eraser tool allows you to correct the detection area. All the shape tools can be used together with the eraser tool.

Copy detection area (save and load)

Prerequisite

- The SISTORE MX NVS Sabotage detection window is opened.
  See Section *"Opening the sabotage detection dialog", page 51*.

Saving the detection area

1. Click **Save ...** (see *"Fig. 44 ", page 52*).
  ➔ The **Save As...** dialog will appear.
2. Select the directory in which to save the detection area file.
3. Enter a file name in the **File name** text field.
4. Click **Save**.
  ➔ The detection area file will be saved.

Loading the detection area

1. Mark the checkbox Mask (see *"Fig. 44 ", page 52*).
2. Click **Load...**
  ➔ The **Open** dialog will appear.
3. Select the detection area file you want to load.
4. Click **Open**.
  ➔ The detection area will be displayed on the live image in the SISTORE MX NVS **Sabotage detection** dialog.

Saving a reference image

NOTE:
The sabotage detection function does not evaluate the reference image. It is only for purposes of visual checking by the user.

Fig. 46 *Save reference image* button in the *SISTORE MX NVS sabotage detection* dialog

Prerequisites

- The SISTORE MX NVS **Sabotage detection** window is opened.
  See Section *"Opening the sabotage detection dialog", page 51*.

1. Click **Save reference image**.
2. Confirm the message that follows with **Yes**.
➔ The reference image of the camera will be saved.

Configuring alarm outputs

Prerequisite:
A USB output module is connected to the SISTORE MX NVS PC (server PC). See Section 0: Details for ordering and Section 11 of the Installation Guide.

Adding and deleting alarm outputs

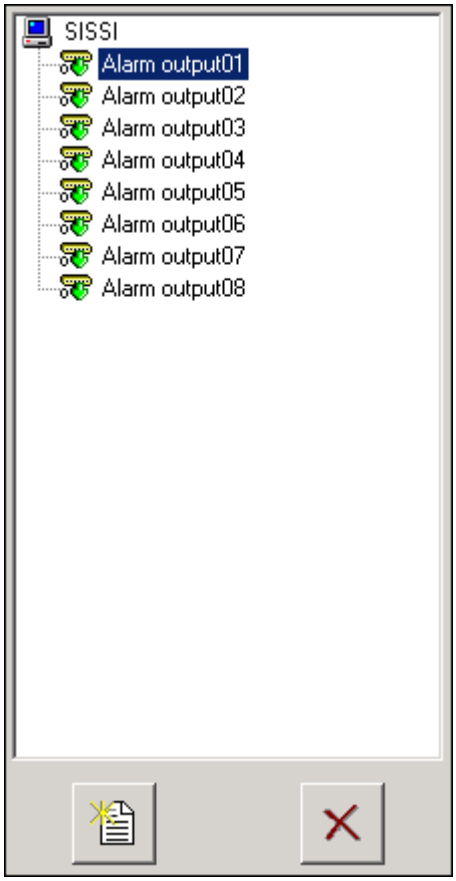


Fig. 47 Alarm outputs list on the *Alarm output* tab

Adding an alarm output

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Alarm output** tab.
2. Click the **Add** button  .
   ➔ A new alarm output will be added to the alarm output list.
3. Enter a name for the alarm output in the **Name** text field.
4. Enter a short description, such as information on the switch position, in the **Description** text field.
5. In the **Output** field, select the number of the physical device output (or the I/O card output).
6. Click **Apply**.
   ➔ The settings will be saved.

Deleting an alarm output

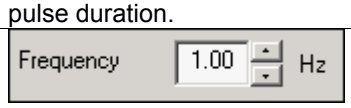
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Alarm output** tab.
2. Select the alarm output you want to delete in the list.
3. Click the **Delete** button  .
4. Confirm the message that follows with **Yes**.
5. Click **Apply**.
   ➔ The settings will be saved.

Selecting the switch action

You can define the response to an event for each alarm output. The following options are available:

	Open switch contact	
	Close switch contact	
	Negative switch pulse	 For the actions *negative switch pulse* and *positive switch pulse* you can set the switch pulse duration.
	Positive switch pulse	
	Alternating	 You can set the frequency for the *alternating* action. The step width is: 0.01 Hz at 0.01 Hz to 0.5 Hz 0.1 Hz at 0.5 Hz to 1.0 Hz 1.0 Hz at 1.0 Hz to 5.0 Hz The green LED icon is lit continuously in this mode, since it does not show the switching state of the output but rather its activity.

Tab. 2 Switch modes on the *Alarm output* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select an alarm output in the alarm outputs list.
2. Select a switch mode in the **Alarm output switch on alarm** group field.
3. Select the pulse duration or frequency as necessary.
4. Test the function of the alarm output with the **Test** button.
5. Click **Apply**.
➔ The settings will be saved.

Event-based or time control of alarm outputs

NOTE:
An alarm output with a special function assigned to it is *not* available for the configuration of recording.

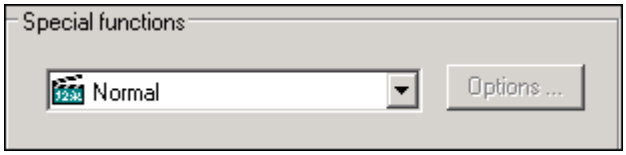


Fig. 48 *Special functions* group field on the *Alarm output* tab

The field selection **Normal** means **no special function** (see *"Fig. 48 ", page 58*).

Name of the special function	Function
Remote controllable	The alarm output can be activated or deactivated by clicking the status LED icon (in the status display of the switch outputs in display mode) (see *"Fig. 49 ", page 59*). You require the user right *remote control* (see Section *Global user rights*, *page 74* for more information). Alarm outputs to which the action *negative switch impulse* or *positive switch impulse* have been assigned can also not be activated or deactivated via the status LED icon.
Error	The SISTORE MX sends a signal over the affected alarm output if one of the following faults occurs: UPS reports a power failure The SISTORE MX NVS application software was not properly closed (for example due to power failure or Watchdog) Recording could not be started Fatal recording error Hard drive full, recording stopped Failure of a hard drive Windows device driver reports errors (event log)
Alarm	SISTORE MX sends a signal over the affected alarm output if an alarm recording is being made. The signal will be sent as long as the alarm recording lasts.
Motion	SISTORE MX sends a signal over the affected alarm output if a camera has detected a movement. The signal lasts one second. If the camera detects another movement within this second, the signal duration will be extended by another second, etc.
Camera missing	SISTORE MX sends a signal over the affected alarm output if at least one camera has failed.
Camera sabotage	SISTORE MX sends a signal over the affected alarm output if camera tampering has been detected.
Recording	During recording a signal will be sent periodically via the affected alarm output.

Time control	The SISTORE MX sends a signal over the affected alarm output at the specified times. If you select this special function the **Options…** button will be enabled. **1.** Click **Options...** The SISTORE MX NVS **Time control** window will open. **1.** Configure the time table. See Section *"", page 16*. The SISTORE MX NVS will send a signal over the alarm output during the marked (blue) time segments. **1.** Click **OK**. The dialog will close. **1.** Click **Apply**. The settings will be saved.
Remote connection	The alarm output will be activated as soon as there is at least one connection to a SISTORE RemoteView client.

Tab. 3 Special functions of the alarm outputs

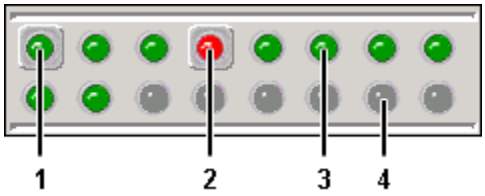


Fig. 49 Status display of the alarm outputs in display mode

1 The special function *remote controllable* is assigned to the alarm output, and it is activated.
2 The special function *remote controllable* is assigned to the alarm output, and it is deactivated.
3 The special function *remote controllable* is *not* assigned to the alarm output, but the output is configured.
4 The alarm output is not configured.

The status display of the alarm outputs is also shown in SISTORE RemoteView. The status LED icons represent the alarm outputs in sequence (1 to 16) from the top left to the bottom right.

Event-controlled alarm output activation/deactivation

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Alarm output** tab.
2. Select a special function from the **Special functions** dropdown list (see *"Fig. 48 ", page 58*).
3. If you have selected the *time control* special function: see the table **Special functions of the alarm outputs** under the entry **time control**.
4. Click Apply.
➔ The settings will be saved.

Time-controlled alarm output activation/deactivation

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- The special function *time control* is not assigned to the affected alarm output.

1. Select the **Alarm output** tab.
2. Mark the checkbox **Time control**.
➔ The **Options…** button will be enabled.
3. Click **Options...**
➔ The SISTORE MX NVS **Time control** window will open.
4. Configure the time table. See Section *"*SISTORE MX NVS time control dialog*", page 16*.
➔ The alarm output is activated in the marked (blue) time segments and deactivated in the unmarked (white) time segments.
5. Click **OK**.
➔ The settings will be saved.

Configuring alarm inputs

Adding and deleting alarm inputs

Prerequisite:
A USB output module is connected to the SISTORE MX NVS PC (server PC). See Section 0: Details for ordering.

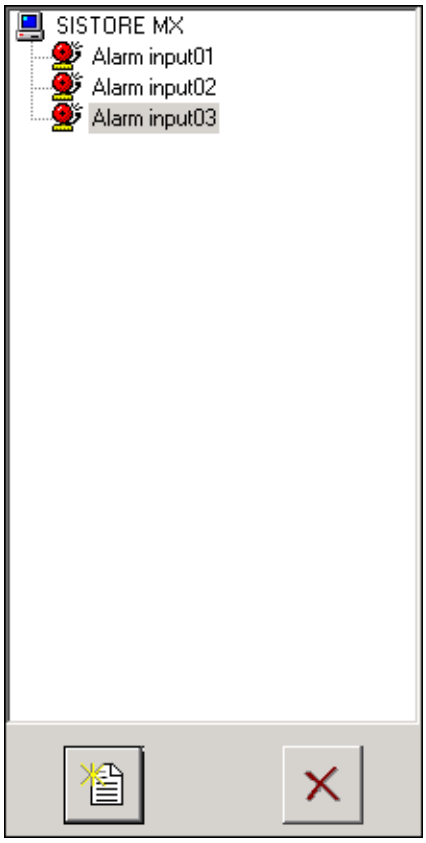


Fig. 50 Alarm inputs list on the **Alarm input** tab

Adding an alarm input
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Alarm input** tab.
2. Click the **Add** button  .
➔ A new alarm input will be added to the alarm inputs list.
3. Enter a name for the alarm input in the **Name** text field.
4. Enter a short description, such as information on the position, in the **Description** text field.

5. In the **alarm input** field, select the number of the physical device input (the trigger input of the I/O card).
6. Click **Apply**.
   ➔ The settings will be saved.

Deleting an alarm input

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

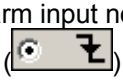
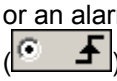
1. Select the **Alarm input** tab.
2. Select the alarm input you want to delete in the list.
3. Click the **Delete** button  .
4. Confirm the message that follows with **Yes**.
5. Click **Apply**.
   ➔ The settings will be saved.

Configuring alarm input

Trigger edge

NOTE:
The trigger edge applies for all alarm inputs. It cannot be set differently for multiple alarm inputs.

With the trigger edge you can determine whether

- an alarm input normally carries voltage and the voltage is interrupted during an alarm ()
- or an alarm input carries voltage only in the case of an alarm and otherwise not ().

The **level sensitive** checkbox allows you to determine whether a recording ends directly after an edge or continues until the next edge.

Example:

The SISTORE MX NVS should start recording when a door is opened and stop when the door closes. The door opener (alarm input) generates a short signal (level change / edge) upon opening and closing of the door. If the **level sensitive** checkbox is *not* marked, the SISTORE MX NVS records only short sequences when the door is opened and when it is closed. If the checkbox is marked, the SISTORE MX NVS records a longer sequence from when the door opens until it is closed.

Fig. 51 **Trigger edge (global)** group field on the **Alarm input** tab

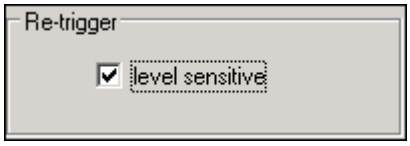


Fig. 52 **Level sensitive** checkbox on the **Alarm input** tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see *"Fig. 50 ", page 61*).
3. Select a trigger edge in the **Trigger edge (global)** group field (see *"Fig. 51 ", page 62*).
4. Mark the checkbox **level sensitive** if relevant (see *"Fig. 52 ", page 63*).
5. Click **Apply**.
   ➔ The setting will be saved.

Priority

The following priorities can be selected for alarm inputs:
- Normal (the alarm input icon in the alarm input list is red, see *"Fig. 50 ", page 61*)
- Hold-up (the alarm input icon in the alarm input list is orange)
- Suspicion (only possible if bank mode is active; the alarm input icon in the alarm input list is purple)

The priority of an alarm input plays a role in the configuration of the recording (see *"*Configuring recording modes*", page 99*). When an alarm with the priority *hold-up* is triggered, active recordings with the *normal* alarm priority and movement recordings are automatically ended. However, active recordings with the *hold-up* alarm priority cannot be automatically ended.

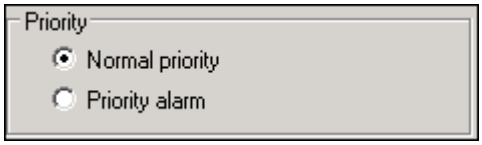


Fig. 53 *Priority* group field on the *Alarm input* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see *"Fig. 50", page 61*).
3. Select the priority of the alarm input in the **Priority** group field (see *"Fig. 53 ", page 63*).

Time control

You can activate and deactivate alarm inputs under time control.

NOTE:
Alarm inputs with the priority *hold-up* or *suspicion* cannot be activated or deactivated with time control.

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

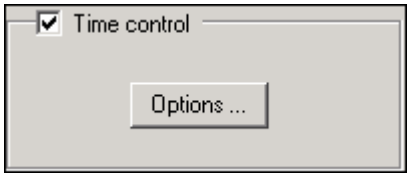


Fig. 54 *Time control* checkbox on the *Alarm input* tab

1. Select the **Alarm input** tab.
2. Select the alarm input you want to configure from the list (see *"Fig. 50", page 61*).
3. Mark the checkbox **Time control** (see *"Fig. 54 ", page 64*).
   ➔ The **Options…** button will be enabled.
4. Click **Options...**
   ➔ The SISTORE MX NVS **Time control** window will open.
5. Configure the time table. See Section *"*SISTORE MX NVS time control dialog*", page 16*.
   ➔ The alarm input is activated only in the marked (blue) time segments.
6. Click **OK**.
   ➔ The setting will be saved.

Testing the configuration of an alarm input

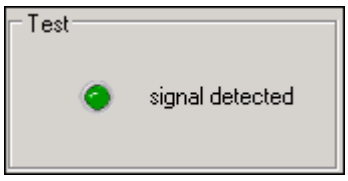


Fig. 55 The *signal detected* LED icon on the *Alarm input* tab

Prerequisites
  See Section „0*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Alarm input** tab.
2. Select the alarm input you want to test from the list (see *"Fig. 50 ", page 61*).
3. Trigger the (physical) alarm input.
   ➔ The LED icon will appear bright green briefly if the signal of the alarm input was detected.

Map configuration

General information about maps

On the Map tab you can combine and link any number of maps (BMP files) with objects.

The following limitations apply:

- A maximum of 32 maps can be shown.
- The maps can be shown in a maximum of 2 hierarchy levels.
- A maximum of 192 objects can be placed.
- The minimum size of maps is 256 x 256 pixels.
- The maximum size of maps is 2048 x 2048 pixels.
- The color depth must be 8- or 24-bit.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software“, *page 12*.
- The SISTORE MX NVS application software is in configuration mode. See Section "Configuration mode", *page 15*.

1. Select the **Map** tab.

➔ The following window will open:

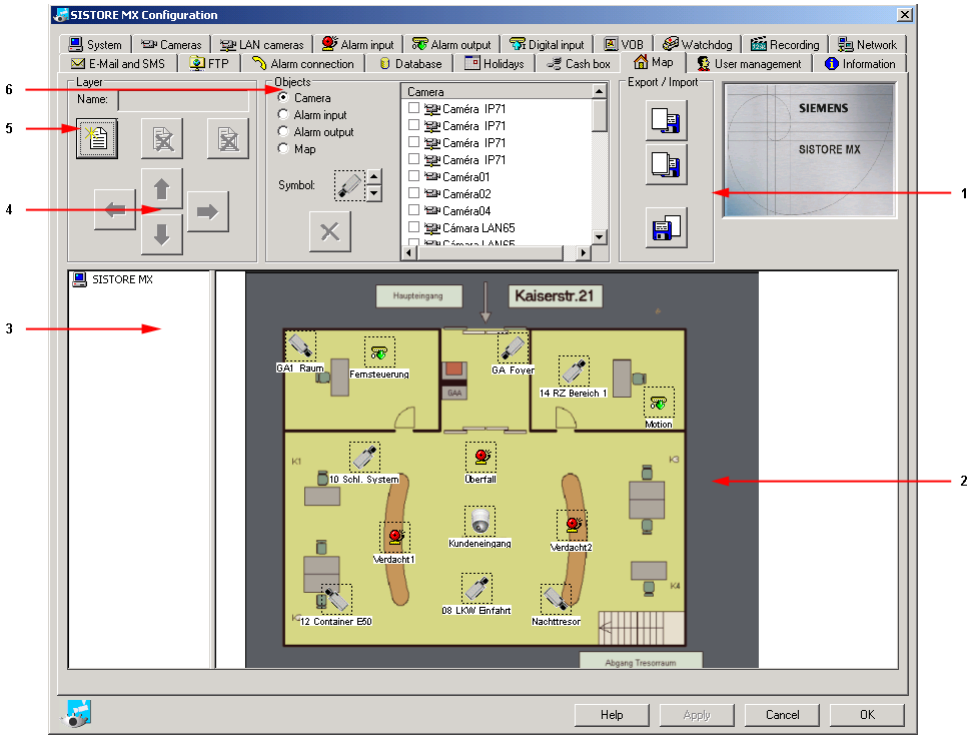


Fig. 56 SISTORE MX – map

1	**Export / Import** group field
2	Map display window The selected map with the set objects will be shown in the display window. The graphic of the selected map is not scaled. For a screen resolution of 1280 x 1024 pixels it is recommended that maps not exceed 800 x 600 pixels.
3	**Map list** The map list shows all active maps in their hierarchy. A maximum of 2 hierarchy levels can be created.
4	**Moving a map** To move one position up/down  . To move one hierarchy level up/down  . A maximum of 2 hierarchy levels can be created (one subordinate level per main level).
5	**Layer** group field
6	**Objects** group field

Adding a map

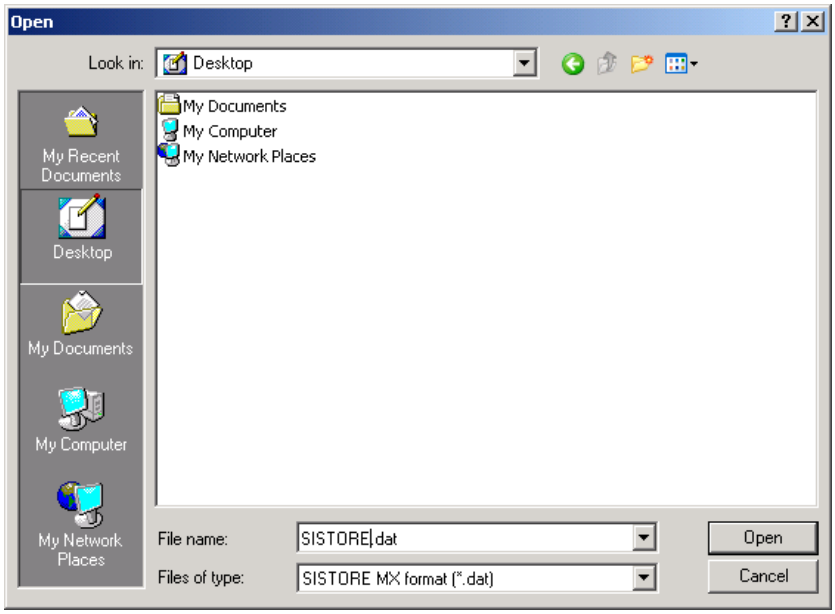
NOTE:
Maps must be present as BMP files. The minimum size of maps is 256 x 256 pixels, and the maximum size is 2048 x 2048 pixels. The color depth must be 8- or 24-bit.
Since SISTORE MX NVS does not work with a copy of the specified file, the map file to use should be saved in the directory ...\SISTORE MX NVS\Map.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software“, *page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15*.

1. Select the **Map** tab.

2. Click the **Add new layer**  button.
➔ The **Open** dialog will appear.



1. Select the desired map.
2. Click Open.
➔ The map will be added to the map list.
➔ The selected map will be shown in the display window.

Deleting a map

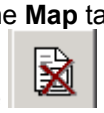
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

Deleting a selected entry

1. Select the **Map** tab.
2. Click on the map to delete in the map list.
3. Click the  button.
4. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.

Deleting all entries

1. Select the **Map** tab.
2. Click the  button.
3. Confirm the message that follows with **Yes**.
➔ All the entries will be deleted.

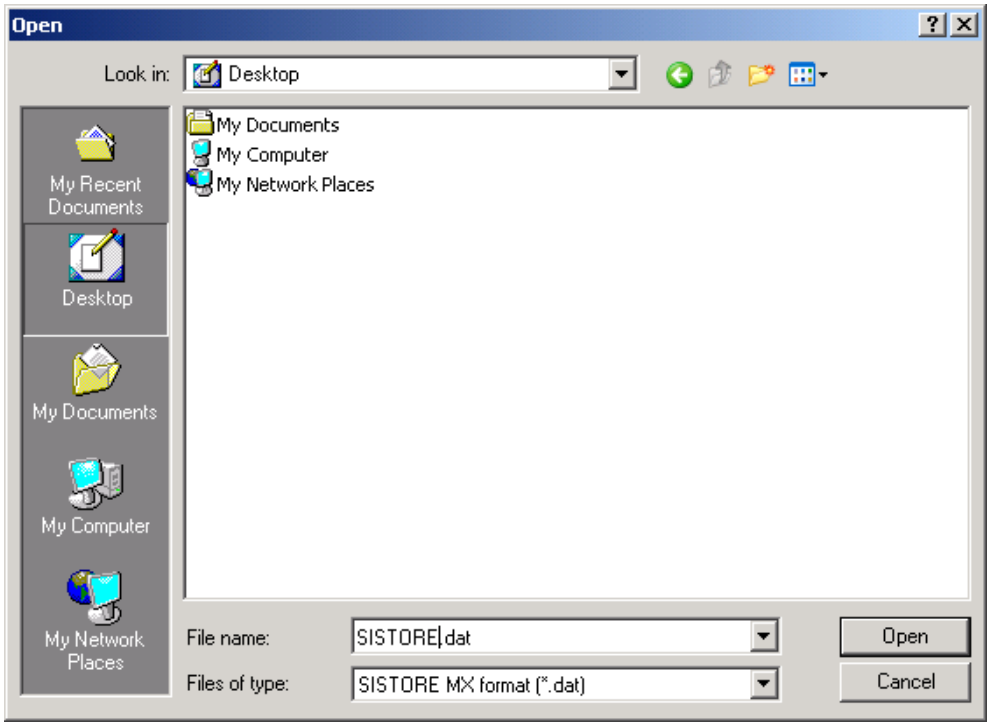
Edit layer

Import layer

You can import a saved layer as a map file with the **Import layer** button.
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Map** tab.
2. Click the **Import** button  .
➔ The **Open** dialog will appear.



3. Select the layer you want to import.
4. Click **Open**.
➔ The layer will be imported.

Export layer

If the current configuration is composed of multiple layers, you can export a particular layer or all layers.
Prerequisites
See Section „0*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- At least one holiday has been configured.
  See Section 26 for further information.

1. Select the **Map** tab.
2. Click the button of the desired export function.
The following export functions are available:

	Export current layer
	Export all layers

➔ The **Save As...** dialog will appear.

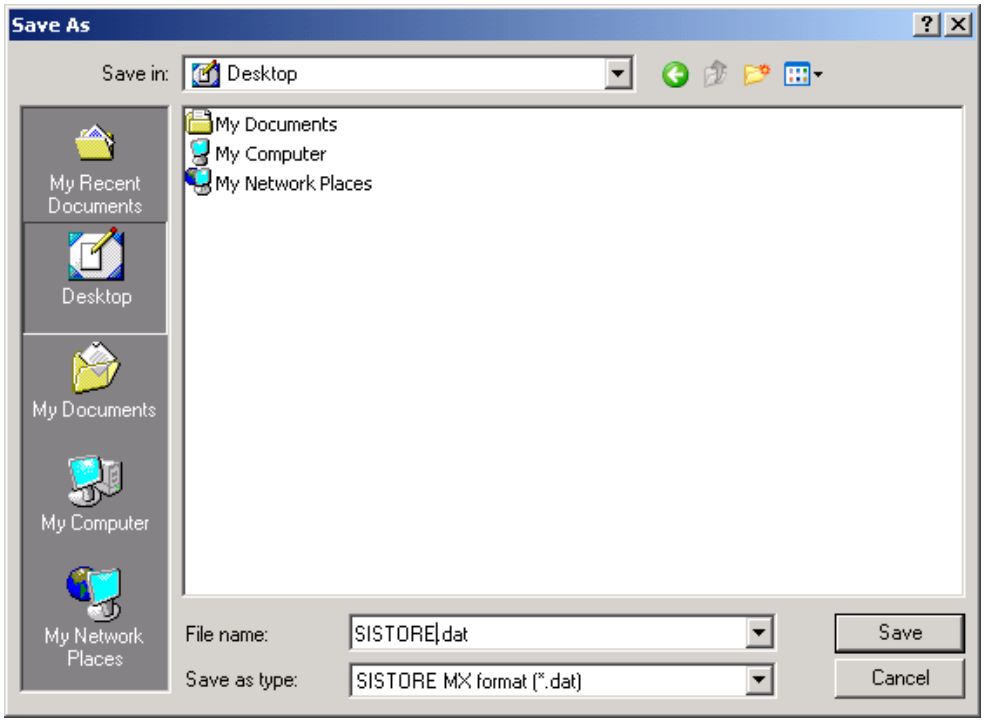


Fig. 57 *Save As* dialog

1. Select the directory in which to save the layer(s).
2. Enter a name in the **File name** field.
3. Click **Save**.
➔ The layer will be saved.

Edit object

Insert object

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
- See Section *"*Configuration mode*", page 15.* All objects used in the map must be configured.

1. Select the **Map** tab.
2. Select an object type in the **Objects** group field.
The following object types are available:

	Camera object type: With the camera object type you can indicate the direction of the camera using one of the following icons: 
	Alarm input object type
	Alarm output object type
	Map object type The map object type enables switching to another map listed in the tree.
	Delete button The delete button deletes all objects of the selected level.

➔ Depending on the object type selected, the available elements of this object type will be shown in the selection list:

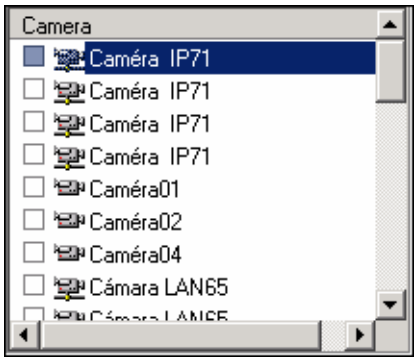


Fig. 58 Selection list of the camera object type

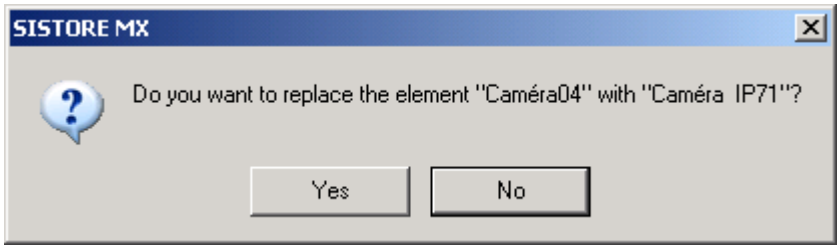
3. Select the desired camera from the list.
➔ If a camera was selected in the selection list for the camera object type, its live image is shown in the window at the top right.
4. Left-click on the desired position of the object on the map.
➔ The object will be inserted at this position on the map.
➔ The placement of the object is confirmed in the selection list by a mark in the checkbox.
5. Click **Apply**.
➔ The setting will be saved.

Note
An object can be configured in multiple levels but only once in each level.

Changing objects

Individual objects within an object type can be changed subsequently.
Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15* for further information.

1. Select the **Map** tab.
2. Select the desired object type in the **Object** field.
3. Select the desired object from the selection list.
4. Left-click on the object to be replaced on the map.
The following query appears:



5. Confirm the message that follows with **Yes**.
➔ The object will be changed.
6. Click **Apply**.
➔ The setting will be saved.

Changing the camera icon

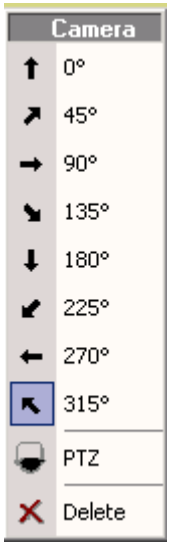
You can use the context menu to change the camera icon for a camera later on the map.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
  The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

1. Select the **Map** tab.

2. Right-click on the relevant camera icon.
➔ The following context menu will open:



3. Click on the desired camera icon.
➔ The icon to be changed will be replaced by the desired icon.

4. Click **Apply**.
➔ The setting will be saved.

Changing the position of the object

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15* for further information.

1. Select the **Map** tab.

2. Left-click on the relevant object.

3. Hold down the mouse button.

4. Move the object to the desired position.

5. Release the mouse button.
➔ The object will be located at the desired position.

6. Click **Apply**.
➔ The setting will be saved.

Deleting an object

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

Deleting individual objects

The following options are available to delete individual objects:

- Remove the checkmark in front of the relevant object in the selection list.
- Double-click the affected object with the left mouse button.
- Select "Delete" from the context menu of the object.

Deleting all objects

1. Select the **Map** tab.

2. Click the  button in the **Objects** group field.
➔ All objects in the corresponding layer will be deleted.

Configuring user and access management

General information on user management

User groups

There are four user groups:

- Administrator: has all rights
- Installer: has all rights except the administration right
- User administrator: has the rights **user management**, **database management** and **delete**. The rights of the user group **User** can also be assigned.
- User: can have the rights **start/stop**, **remote control**, **remote access**, **playback**, **audio playback**, **export** and **cash box search** if they have been assigned.

NOTE:
Assign the user group **Administrator** only to users who install complete systems (such as system administrators).
For security reasons, assign all other users only the user group and rights they actually need. Then input windows that are not needed will not be shown.

Assignment of rights to user groups

The following table gives information on the user groups and the assignment of rights to these groups.

Rights		Administrator	Installer	User Administrator	User
Administration	+	X	-	-	-
Installation	+	X	X	-	-
Configuration		X	X	-	-
User administration	+	X	X	X	-
Database		X	X	X	-
Delete		X	X	X	-
Start/Stop	+	X	X	X	o
Remote control	+	X	X	X	o
Remote access	+	X	X	X	o
Playback	+	X	X	X	o
Audio playback	+	X	X	X	o
Cash box search	+	X	X	X	o
Export	+	X	X	X	o
Display (cam)	+	X	X	X	o
PTZ (cam)	+	X	X	X	o
Camera playback (cam)	+	X	X	X	o

X	The user has this as a basic right
-	The user never has this right
o	The user can have this right assigned
(cam)	Camera-specific right
+	The right can be individually configured

As can be seen in the table above, the user groups **Administrator**, **Installer** und **User Administrator** have fixed, predefined rights. Only the user group **User** can have individual rights assigned.

Global user rights

Global rights are user rights that apply to all cameras. They cannot be assigned to a user only for particular cameras. The following table describes the global user rights.

Right	Description
Administration	Configure all system settings
Installation	Configuration of system settings with limitations
Configuration	Create and delete users and assign rights Configure the user interface Configure hardware
User administration	Create new users Deleting existing users Change the rights of users
Database management	Edit the database during playback, for example: Create a backup of the database Create a new database, test and repair the database and re-index the database. Prerequisite: playback right.
Delete	Delete messages and recordings Prerequisite: playback right.
Start/Stop	Start, pause and end recording. Exit SISTORE MX
Remote control	Activate or deactivate the alarm outputs locally on the server or via RemoteView. Control PTZ cameras Prerequisite: These have been configured appropriately
Remote access	Log on to the system via SISTORE MX NVS RemoteView Perform remote maintenance and remote monitoring
Playback	The prerequisite to receiving a camera-specific playback right. Prerequisite for audio playback
Audio playback	Play back audio recordings. Prerequisite: playback right.
Export	Export recordings and save them in some form, for example: Create AVIs Create individual images (BMP or JPEG) Print images Prerequisite: playback right.

Right	Description
Cash box search	Start a cash box search with a cash box system and activated bank mode The playback right is not mandatory for this. Users with the "cash box search" right but not the playback right can in fact switch to playback, but only run cash box search functions there. They see no logbook, for example. The "cash box search" right is available in the user configuration, but only for systems with a GAA license and activated bank system.

Camera-specific user rights

Camera-specific user rights are rights that can be assigned to a user only for specific cameras. The following table describes the camera-specific user rights.

Right	Description
Display	View the live images of a camera. DISPLAY is a camera-specific right. The DISPLAY right is not necessary to play back recordings of a camera. The camera-specific or global playback right is sufficient.
PTZ	Pan/tilt camera control Prerequisite: DISPLAY right for the same camera.
Playback	Play back recordings of a camera Prerequisite: Global playback right The playback right has no meaning for automated teller cameras and cash box cameras. For automated teller cameras the global "cash box search" right applies; for cash box cameras the global cash box right applies. Starting a cash box search with a cash box system. This is only possible for systems with a cash box license or only with bank systems.

User account configuration

Creating a user account

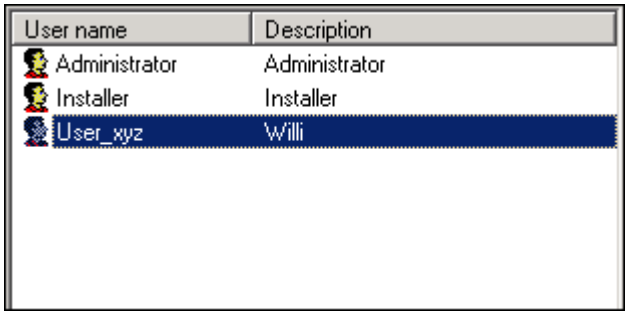


Fig. 59 User account list on the *User management* tab

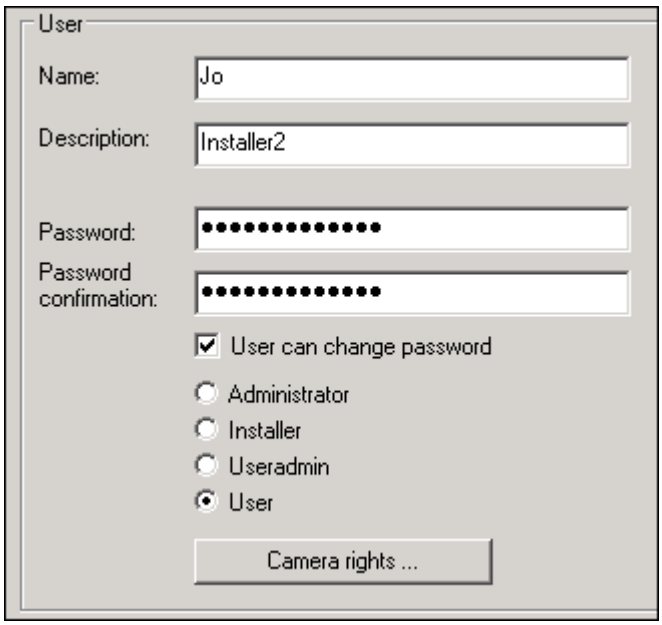


Fig. 60 User group field on the user management tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right *user management*.
  See Section *„User* groups*", page 73*.

1. Select the **User management** tab.

2. Click the **Add** button  below the user account list.
➔ A new line will be added to the user account list.

NOTE:
If the text fields **Name**, **Password** and **Password confirmation** are not filled in completely or no user rights have been assigned, an error message will be displayed.

3. Enter a name for the user account in the **Name** text field.

4. Enter a short description in the **Description** text field.

5. Enter a password with at least eight characters in the **Password** text field.

6. Re-enter the password in the **Password confirmation** text field.
If users who are logged in to this account may change the password:
7. Mark the checkbox **User can change password**.
8. To assign a user category to the user, click the radio button **Administrator**, **Installer**, **Useradmin** or **User**.
See also *Fig. „User group field on the* user management tab*", page 76*.
If you have chosen the **User** radio button:
9. Mark the desired checkboxes in the **User rights** group field.

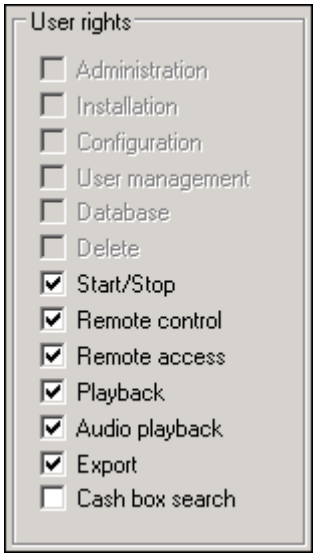
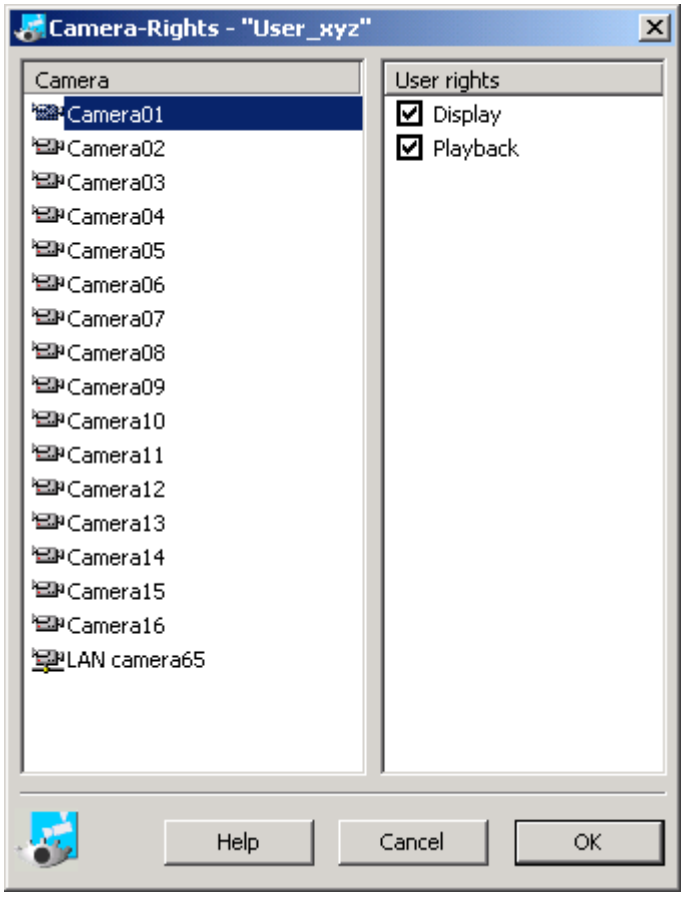


Fig. 61 User rights group field on the user management tab

10. Click the **Camera rights...** button.
➔ The **Camera Rights** dialog will appear.



11. Select the camera.
12. In the **user rights** field, select or deselect the checkboxes as desired.
13. Repeat steps 5 and 6 as often as required.

NOTE:
If a new user is created, this user automatically receives the same rights for each camera as the user who created the new user.
If a new camera is created, all users automatically receive all rights for this camera at first. If individual users are not to have all rights for the camera, these rights must be manually revoked after setting up the camera.

14. Click **OK**.

Deleting a user account

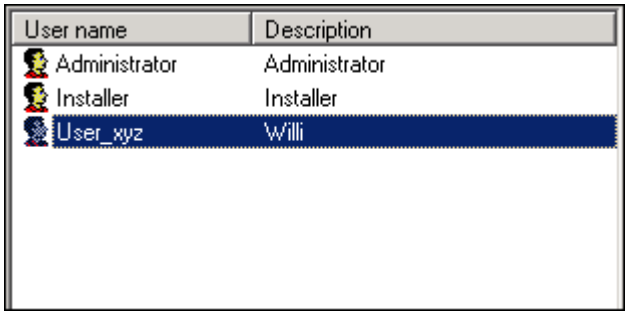


Fig. 62 User account list on the *User management* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.
- You have the right *user management*.

1. Select the **User management** tab.
2. Select the user account you want to delete in the list.
3. Click the **Delete** button  .
4. Confirm the message that follows with **Yes**.
   ➔ The user account will be deleted from the user account list.

User account locking

NOTE:
After a password is enter incorrectly three times, the user account affected will be blocked. To unlock: see *"Unlocking a user account", page 80*

Fig. 63 *Lock* button on the *User management* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to lock from the user account list (see *"Fig. 62 ", page 78*).
3. Click **Lock** (see *"Fig. 63 ", page 79*).
4. Click **Apply**.
   ➔ The setting will be saved. The user account is locked.

Unlocking a user account

You can unlock a user account manually or automatically.

Fig. 64 *User account* group field on the *User management* tab

Manually unlocking a user account

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to unlock from the user account list.
3. Click the **Unlock** button (see *"Fig. 63 ", page 79*).
4. Click **Apply**.
   ➔ The setting will be saved. The user account is unlocked.

Automatically unlocking a user account

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right "user management".

1. Select the **User management** tab.
2. Select the user account you want to unlock automatically from the user account list.
3. Mark the checkbox **Unlock automatically after** (see *"Fig. 63 ", page 79*).
4. Enter a value in minutes in the **minute(s)** text field.
5. Click **Apply**.
   ➔ The setting will be saved. The user account will be unblocked after the time entered has passed.

Predefined user accounts: Administrator and Installer

Only use the user account *Administrator* if it is necessary!

The software is shipped with two user accounts already set up: *Administrator* and *Installer*. The associated passwords are *Administrator* and *Installer* respectively. **Change these passwords** during the operational setup of the SISTORE MX NVS unit.
Both of these user accounts cannot be deleted, and configuration of them is restricted:

- Administrator: has all rights
- Installer: has all rights except the administration right

Users with only basic knowledge of SISTORE MX NVS should only work with the user account *Installer* or with another limited user account.

Configuring the validity period of a password

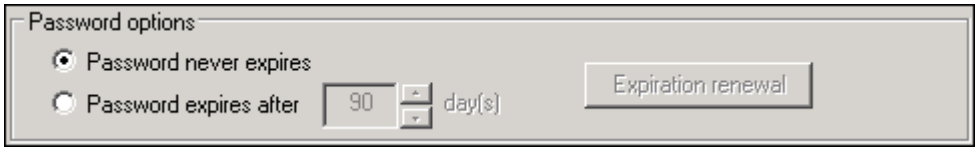


Fig. 65 *Password options* group field on the *User management* tab

Limiting the validity period of a password
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right *user management*.

1. Select the **User management** tab.
2. Click the **Password expires after** radio button (see *"Fig. 65 ", page 81*).
3. Enter a value in the **day(s)** field to indicate how many days the password is to be valid.
4. Click Apply.
➔ The setting will be saved.

Extending the validity period of a password
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right *user management*.

1. Select the **User management** tab.
2. Click **Expiration renewal** (see *"Fig. 65 ", page 81*).
3. Click **Apply**.
➔ The validity of the password will be extended by the number of days specified in the **day(s)** text field. The date from which the extension is calculated is the current one.

Removing the restriction of validity of a password

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- You have the right *user management*.

1. Select the **User management** tab.
2. Click the **Password never expires** radio button (see *"Fig. 65 ", page 81*).
3. Click **Apply**.
   ➔ The setting will be saved.

Enabling password-protected start of the SISTORE MX NVS application software

If password protection is enabled, a user name and password must be entered to start the SISTORE MX NVS application software.

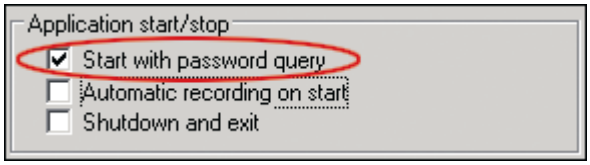


Fig. 66 *Start with password query* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Start with password query** (see *"Fig. 66 ", page 82*).
3. Click **Apply**.
   ➔ The setting will be saved.

Configuring the logbook

Enabling extended logbook entries

If this option is enabled, an entry will be written in the logbook during printing, saving of individual images or the export of sequences.

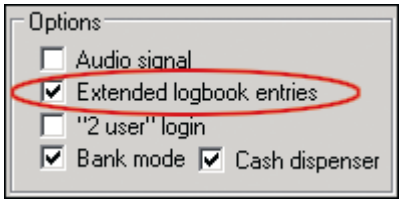


Fig. 67 *Extended logbook entries* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **System** tab.
2. Select the **Extended logbook entries** checkbox in the **Options** group field.
3. Click **Apply**.
   ➔ The setting will be saved.

Deleting logbook entries automatically

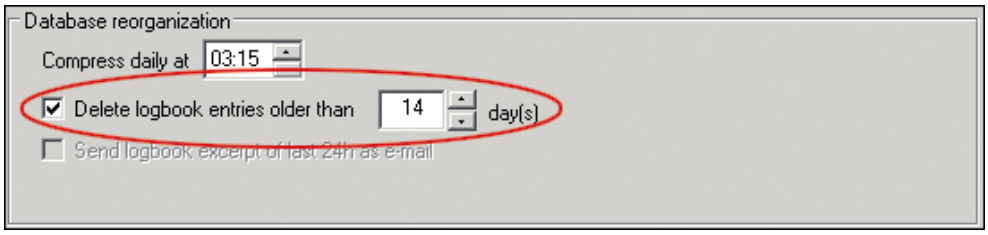


Fig. 68 *Delete logbook entries* checkbox on the *Database* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Database** tab.
2. Mark the checkbox **Delete logbook entries**.
3. Enter a value in the **day(s)** text field.
4. Click **Apply**.
   ➔ The setting will be saved.

Sending logbook excerpts automatically

This option is only available if the sending of e-mail is configured. See Section *"Configuring e-mail notification", page 114* for further information.
If this option is enabled, SISTORE MX NVS will send an e-mail every 24 hours with an excerpt consisting of the entries of the last 24 hours from the logbook.

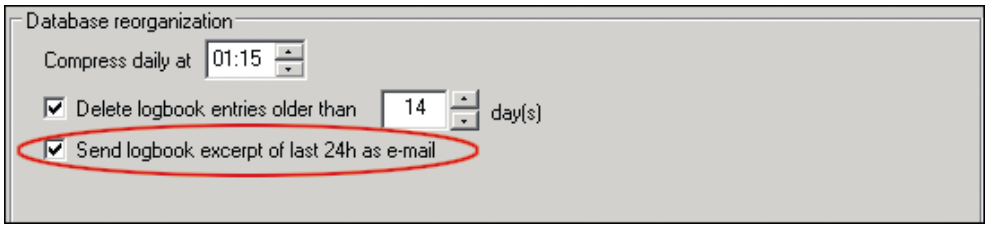


Fig. 69 Automatic sending of logbook excerpts on the *Database* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Database** tab.
2. Mark the checkbox **Send logbook excerpt of last 24h as e-mail**.
3. Click **Apply**.
   ➔ The setting will be saved.

Enabling software triggering

NOTE:
The checkbox *Enable software trigger* is only available if bank mode is *not* enabled.

If this option is enabled, the SISTORE MX NVS application software can communicate with other programs, such as IVM.

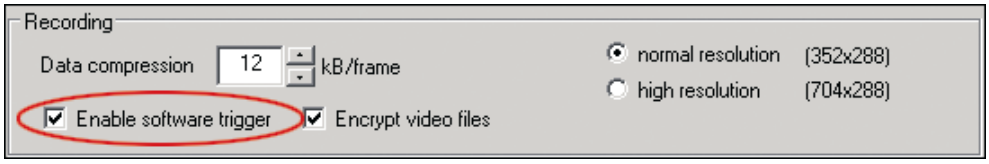


Fig. 70 *Enable software trigger* checkbox on the *System* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **System** tab.
2. Select the **Enable software trigger** checkbox in the **Recording** group field.
3. Click **Apply**.
   ➔ The setting will be saved.

Enabling operating panel control

NOTE:
The *CCTV keyboard* group field is only visible if the CKA 4810 or CKA 4820 driver is installed. Information on this will be found in the start-up instructions for SISTORE MX NVS.

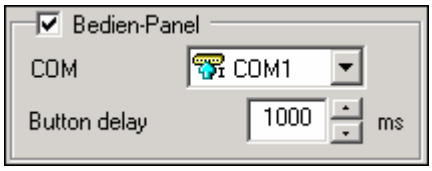


Fig. 71 *CCTV keyboard* group field on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **CCTV keyboard** (see *"Fig. 71 ", page 85*).
➔ The **CCTV keyboard** group field will be enabled.
3. Select the interface to which your operating panel is connected from the **COM** dropdown field.
4. Enter a value in milliseconds in the **Button delay** text field.
➔ If no keyboard input takes place within the specified time, the entry is considered complete.
5. Click **Apply**.
➔ The settings will be saved.

Configuring the user interface of the SISTORE MX NVS application software

Selecting the user interface language

Languages can be added to the SISTORE MX NVS application software after installation. To do so, copy the corresponding language files with the DLL extension into the C:\Program Files\CEVIS\SISTORE directory.

Fig. 72 *Language* dropdown list on the *System* tab

Prerequisites:

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Select a language from the **Language** dropdown list (see *"Fig. 72 ", page 86*).
   If you select the entry **automatic**, the SISTORE MX NVS application software starts in the language set as the regional language in the operating system.
3. Confirm the message that follows with **OK**.
4. Click **OK**.
5. Confirm the message that follows with **Yes**.
   ➔ The setting will be saved and the SISTORE MX NVS application software will close.
6. Start the SISTORE MX NVS application software. See Section „Starting the SISTORE MX NVS application software*“, page 12*.
   ➔ The SISTORE MX NVS application software now uses the selected language.

Configuring the display area

Selecting the initial arrangement of the display area

In the **Default screen split** group field you can define whether the SISTORE MX NVS application software shows a site plan, the event view or video images when starting or whether everything is hidden.

Fig. 73 Dropdown list in the *Default screen split* group field

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Select the desired view from the dropdown list in the **Default screen split** group field.
3. Click **Apply**.
➔ The setting will be saved.

Selecting the initial display mode

With the checkbox **Start in full screen mode** you can determine whether the display area of the SISTORE MX NVS application software is shown on the full screen when the software is started. All control elements of the program window are hidden in full screen mode.

Fig. 74 *Start in full screen mode* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Start in full screen mode**.
3. Click **Apply**.
➔ The setting will be saved.

Exiting full screen mode

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in display mode.
  See Section *"Configuration mode", page 15*.
- The display is in full screen mode.

1. Right-click in the background.
➔ The SISTORE MX NVS context menu will open.
2. Select the menu option **View**.
➔ The submenu will open.
3. Select the submenu option **Normal screen**.
➔ The display mode will be the normal display.
➔ The control elements of the program window will be shown.

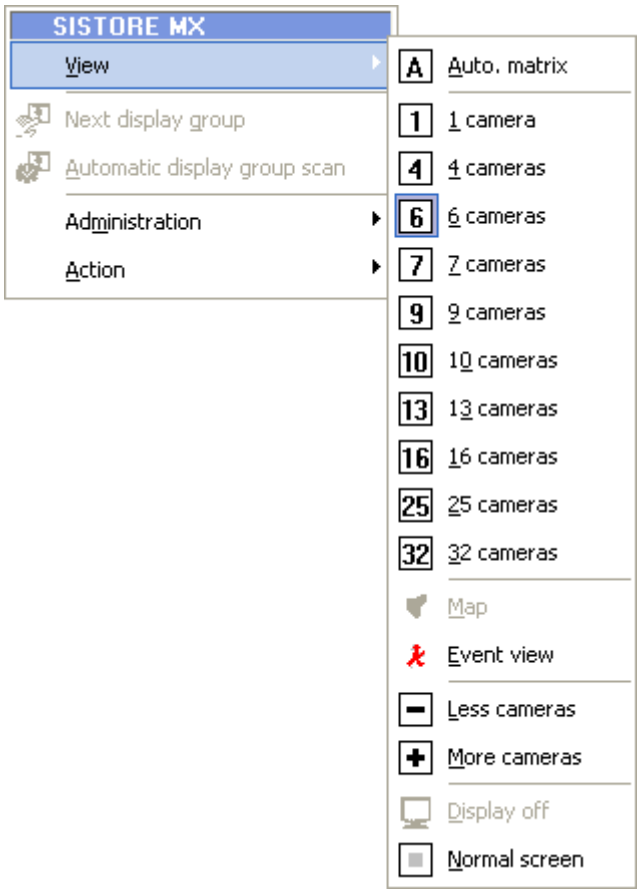


Fig. 75 SISTORE MX NVS context menu

Configuring the recording status display

In the **Record status display** group field, you can define whether the recording status is shown as a symbol or a symbol and text on the live image or is not shown.

Fig. 76 Live image with recording status display overlaid

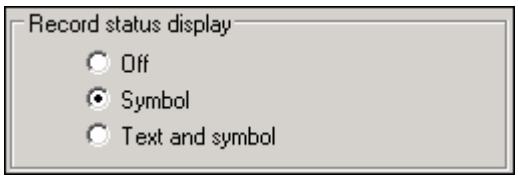


Fig. 77 Recording status display group field on the System tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode. See Section *"Configuration mode", page 15*.

Note
You can observe the changes you make on the live image.

1. Select the **System** tab.
2. Select the desired option in the **Record status display**.
3. Click **Apply**.
   ➔ The setting will be saved.

Configuring the live image change interval

The **Display mode** group field refers **only** to analog video monitors.

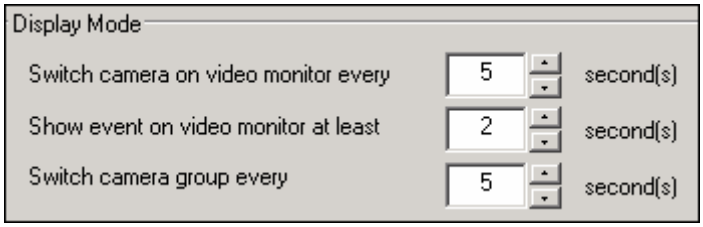


Fig. 78 *Display mode* group field on the *System* tab

Prerequisites

- At least one network camera is connected to the SISTORE MX NVS unit and configured.
  See Section *"*Adding a network camera*", page 36* for further information.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. In the field **Switch camera on video monitor every** select the period after which the view is switched to the next camera.
3. In the field **Show event on monitor at least** choose how long live images are to be shown during an event.
4. In the field **Switch camera group every** select the period after which the switch is made to the next camera group.

Switching times can be selected between 2 and 600 seconds.

5. Click **Apply**.
➔ The setting will be saved.

Enabling frame rate display

The **Display framerate** checkbox can be used to determine whether the frame rate is shown on the live image. This function is only for checking the frame rate, and in contrast to the name of the camera or the date and time, it is not saved.

The value shown can deviate from the actual frame rate.
The frame rate display appears only after recording 10 frames of the live image, after which a value is calculated. At a slow frame rate this can require considerable time.

Fig. 79 Live image with frame rate shown

Fig. 80 *Display framerate* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Display framerate**.
3. Click **Apply**.
➔ The setting will be saved.

Configuring text overlay for a network camera

In the **Text overlay** group field you can define whether the name of the camera, the time and the date are shown in the video image of the SISTORE MX NVS application software. Furthermore, the position of the overlay and the font and background color can be defined. To facilitate an optimal overview, it is recommended to show the text at the same position in all video images.

Fig. 81 Live image with overlaid camera name, time and date

Prerequisites

- At least one network camera is connected to the SISTORE MX NVS unit.
  See Section *"Adding a network camera", page 36* for further information.
- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

Fig. 82 Text overlay group field on the LAN cameras tab

1. Select the **LAN cameras** tab.
2. In the camera list, select the camera for which you want to overlay the text on the video image.
3. Mark the checkbox **Text overlay**.
   ➔ The camera name will be overlaid.
4. Mark the checkbox **Background**.
   ➔ The camera name will be given a white background.
5. Mark the checkbox **Date and time**.
   ➔ The date and time will be overlaid.

There are four radio button options for determining the position of the text.

6. Select the desired option.
➔ The text will be overlaid at the position selected.
7. Select the desired color from the **Text color…** selection field.
➔ The text will be overlaid in the color selected.
8. Select the desired color from the **Background color…** selection field.
➔ The background of the overlay will be shown in the color selected.
9. Click **Apply**.
➔ The setting will be saved.

Configuring system messages

Using the **Audio signal** checkbox, you can determine whether an audio signal is given when a system message appears. Furthermore, it determines whether the user can switch audio signals on and off in the display mode.

Fig. 83 *Audio signal* checkbox on the System tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Audio signal**.
3. Click **Apply**.
➔ The setting will be saved.

Showing the on-screen keyboard

The **On-screen keyboard** checkbox can be used to determine whether the **On-screen keyboard** window is shown. This virtual keyboard serves as a keyboard replacement for systems without an external keyboard. It can be operated with the mouse.

Fig. 84 *On-screen keyboard* checkbox on the *System* tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **On-screen keyboard**.
➔ The **On-screen keyboard** window will appear.

Fig. 85 *On-screen keyboard* window

3. Click **Apply**.
➔ The setting will be saved.

Enabling automatic logout

In the **Auto logout** group field you can determine whether a user is automatically logged out after a specified period of inactivity.

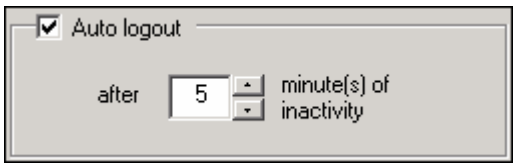


Fig. 86 *Auto logout* group field on the System tab

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Auto logout**.
3. In the **minute(s) of inactivity** field, specify the time after which the automatic logout is to occur.
4. Click **Apply**.
➔ The setting will be saved.

Before the user is automatically logged off, the lock icon in the status bar will flash for one minute. If the user performs an action during this time, the icon will stop flashing.

Keeping the SISTORE MX NVS application software in the foreground

With the checkbox **Always in foreground** you can determine whether the SISTORE MX NVS application software is to be shown in the foreground at all times. This prevents other program windows from covering the SISTORE MX NVS application software.

Fig. 87 *Always in foreground* checkbox on the System tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Always in foreground**.
3. Click **Apply**.
➔ The setting will be saved.

Recording configuration

Enabling automatic recording on start

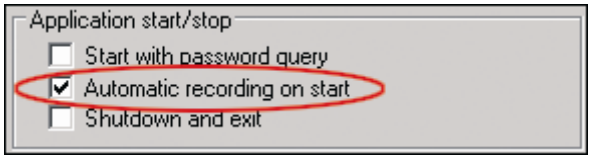


Fig. 88 *Automatic recording on start* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.

See Section *"*Configuration mode*", page 15.*

1. Select the **System** tab.
2. Mark the checkbox **Automatic recording on start** (see *"Fig. 88 ", page 96*).
3. Click **Apply**.
➔ The setting will be saved.

Configuring video parameters

Configuring video parameters

NOTE:
The higher the value in the *Data compression* text field,
the lower the compression
the higher the picture quality
the higher the hard drive capacity required
The compression set applies to all cameras connected to the SISTORE MX NVS.

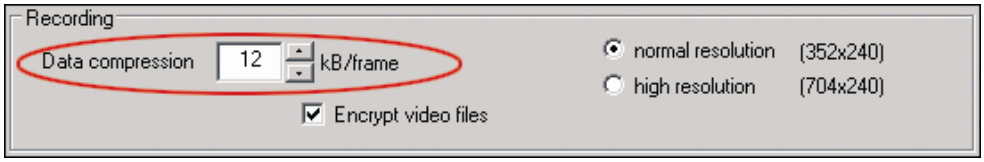


Fig. 89 *Data compression* text field on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Enter a value in the **Data compression** text field.
➔ If you have selected *normal resolution*, the value must be between 10 and 40; if you have set *high resolution*, the value must be between 20 and 80. For setting the resolution see also Section *"*Selecting video resolution*", page 98*.
3. Click **Apply**.
➔ The setting will be saved.

Enabling video encryption

If video encryption is enabled, the recordings will be saved in an encrypted format. Encrypted recordings cannot be played back with an ordinary video playback program, but instead require the *SISTORE Player* for viewing. Video encryption also affects the export of recordings.
Encrypted recordings have the file extension *k26*; unencrypted recording have the file extension *avi*.

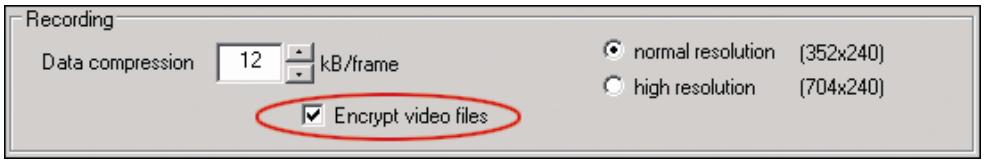


Fig. 90 *Encrypt video files* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started. See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode. See Section *"Configuration mode", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Encrypt video files** (see *"Fig. 90 ", page 97*).
3. Click **Apply**. The setting will be saved.

Selecting video resolution

NOTE:
The resolution of network cameras is generally limited to the CIF format (352x288 pixels).

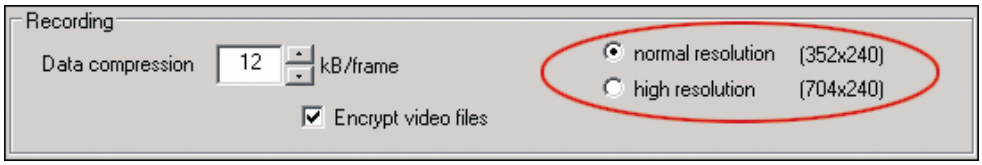


Fig. 91 Radio buttons for video resolution on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started. See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode. See Section *"Configuration mode", page 15*.

1. Select the System tab.
2. Select the **normal resolution** (CIF format) option or the **high resolution** (2CIF format) option.
3. Click **Apply**.
   ➔ The setting will be saved.

Configuring recording modes

General information about recording modes

On the **Recording** tab there are five sub-tabs, each of which corresponds to a recording mode:

Recording mode/Sub-tab	**Visibility**	**Function**
Longtime recording	Always visible	Continuous recording of the live image
Motion	Only visible if motion detection is enabled for at least one camera. See Section *"Configuring motion detection", page 46* for further information.	Recording of the live image if motion is detected
Alarm input	Only visible if at least one alarm input with *normal* priority is configured. See Section *"Configuring alarm inputs", page 61*.	Recording of the live image in case of an alarm with *normal* priority
Priority alarm	Only visible if at least one alarm input is configured as a *priority alarm*. See Section *"Configuring alarm inputs", page 61*.	Recording of the live image in case of a *priority alarm*
Software trigger	Only visible if software control is enabled. See Section *"Enabling software triggering", page 84* for further information.	Recording of the live image with a software trigger
Cash box	Only visible if a cash box has been assigned to the camera. The **Cash box** mode has a higher priority than **Motion** but lower than **Alarm**.	Recording of the live image upon transmission of an alarm filter word of a record if the camera is making no other recording

Tab. 4 Overview of the recording modes

The recording modes can
- be configured separately for each camera
- be combined with one another (see Section *"Combination example for recording modes", page 103*).

The recording settings can be transferred easily to other cameras. See Section *"Transferring recording settings", page 104*.

The following **colors in the time table** have been assigned to the recording modes:
- Blue: Longtime recording
- Green: Motion
- Red: Alarm input

No color is assigned to the *Priority alarm* mode; it is always active if at least one alarm input is configured as a *priority alarm*.
There is also no color assigned to the *Software trigger* recording mode; it is always active if software control is enabled.

You have the following setting options in the recording modes:

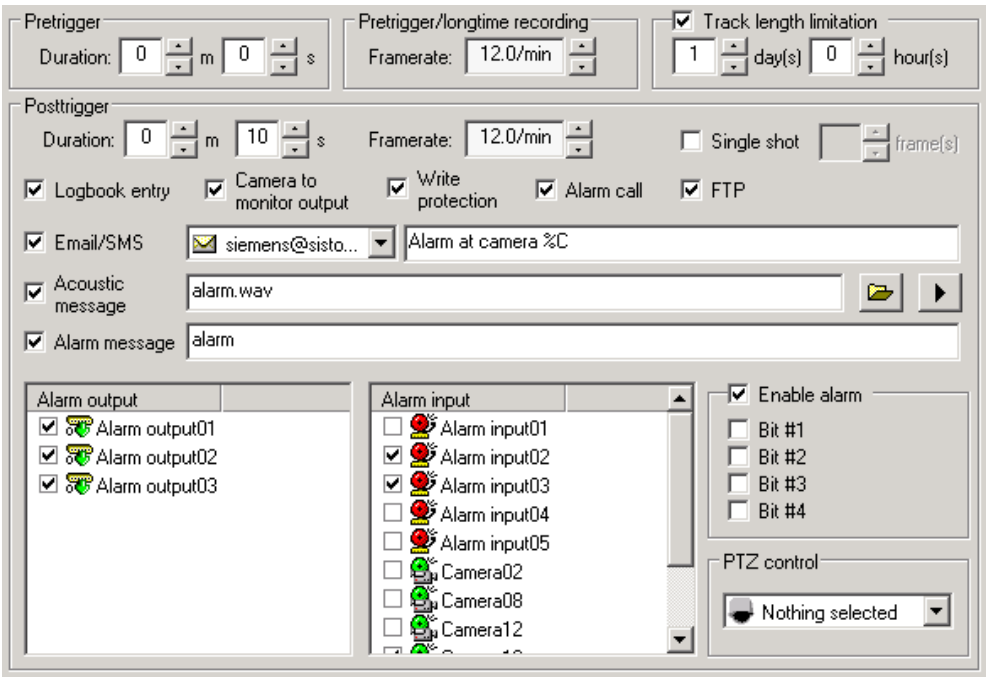


Fig. 92 Control elements on the *Recording* tab

Setting	Function	Note
Pretrigger Duration	The period prior to an event (movement, alarm or software trigger) which is recorded after the event occurs.	Only available in the recording modes *motion*, *alarm input*, *priority alarm* and *software trigger* if longtime recording is not enabled for all time segments, if the *Single shot* checkbox is not marked.
Pretrigger/ Longtime recording Frame rate	The frame rate at which the pre-alarm and longtime recording is to be saved.	Applies to all recording modes of a camera; it cannot be set differently for the various recording modes.
Track length limitation	The limitation of the hard drive capacity taken up by a camera. The SISTORE MX NVS application software checks the total recording duration of the camera every hour; if it exceeds the track length duration, older recordings for this camera will be overwritten.	Write-protected recordings will not be overwritten and can thus be longer than the track length limitation setting. Use the track length limitation if you want to prioritize cameras: limit the recording duration of less important cameras in order to keep more hard drive capacity free for more important cameras.
Posttrigger Duration	The period which is recorded after an event.	Only available in the recording modes *motion*, *alarm input*, *priority alarm* and *software trigger* if the *Single shot* checkbox is not marked. If another event is detected during the post-trigger period, it is extended by the value set. At least 10 frames will always be recorded. The post-trigger period can also be controlled via software (such as IVM); in this case, the software control settings take priority over the settings of the SISTORE MX NVS application software.

Setting	Function	Note
Frame rate	The frame rate at which the post-alarm recordings are to be saved.	Only available in the recording modes *alarm input*, *priority alarm* and *software trigger* if the *Single shot* checkbox is not marked.
Single shot	Instead of a video sequence, only up to 5 single images will be recorded. These individual images will be recorded at the maximum frame rate of the camera.	Only available in the recording modes *alarm input*, *priority alarm* and *software trigger*
Logbook entry	When an event occurs, an entry will be written in the logbook.	Only available in the recording modes *alarm input*, *priority alarm* and *software trigger* and *suspicion*
Camera to monitor output	If an event occurs, the live image of the affected camera will be connected to a monitor.	Only available for analog cameras in the recording modes *motion, alarm input*, *priority alarm* and *software trigger* if the checkbox *External video monitor* on the *Cameras* tab is marked for the camera affected.
Write protection	If enabled, the recordings of the affected camera cannot be overwritten.	Only available in the recording modes *alarm input*, *priority alarm* and *software trigger*.
Alarm connection	In case of an event, a connection will be made to a SISTORE RemoteView client and the live image of the affected camera is shown there.	Only available in the recording modes *motion*, *alarm input* and *priority alarm* if the connection is configured on the *Alarm connection* tab (see *"*Configuring the alarm connection*", page 121*). The login to the SISTORE RemoteView client takes place automatically.
FTP	In case of an alarm, the alarm message will be stored as an MSG and an alarm image as a JPEG in the root directory on the FTP server.	Only available in the recording modes *motion*, *alarm input*, *priority alarm* and *suspicion* if an FTP server is configured on the *FTP* tab.
E-mail/SMS	When an event occurs, the text entered will be sent by e-mail or SMS.	Only available in the recording modes *alarm input* and *priority alarm* if e-mail and/or SMS delivery is configured on the E-mail and SMS tab (see *"*Configuring e-mail notification*", page 114* or *"*Configuring SMS notification*", page 119*). The following variables can be used in the text: %C = camera name %X = date and time of the start of the event
Acoustic message	The acoustic signal selected is played when an event occurs.	Only available in the recording modes *motion*, *alarm input* and *priority alarm*
Alarm message	The text entered will be shown on the screen when an event occurs.	Only available in the recording modes *motion*, *alarm input* and *priority alarm*
Alarm output	When an event occurs, a signal will be sent via the selected alarm outputs.	Only available in the recording modes *motion*, *alarm input*, *priority alarm* and *software trigger* This function can be used to control additional devices.

Setting	Function	Note
Alarm input	When an assigned alarm input is triggered, the live image of the camera will be recorded even if the camera itself has detected no movement.	Only available in the recording modes *alarm input* and *priority alarm*
Enable alarm	Recording the live image of the affected camera can be linked to additional conditions here.	Only available in the recording modes *motion*, *alarm input* and *priority alarm*. All inputs to which the *enable alarm* function has been assigned can be selected as a condition.
PTZ control	During an event the affected camera moves to the selected position.	Only available in the recording modes *alarm input*, *priority alarm* and *software trigger* if the affected camera is a PTZ camera. At least one position must be saved for the affected camera (see *"*Configuring automatic camera positioning*", page 41* for PTZ network cameras).

Tab. 5 Setting options on the *Recording* tab

Pretrigger: Recording of live images that immediately precede an alarm.

Posttrigger: Recording of live images that occurs immediately after an alarm.

Combination example for recording modes

You want to record the live image of a camera continuously at a frame rate of 10 fps. Additionally for Saturdays and Sundays, if a movement is detected the live image should be recorded during the movement and up to 1 minute thereafter at 20 fps. **To do so, proceed as follows:**

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- Motion detection is enabled for at least one camera.
  See Section *"*Configuring motion detection*", page 46* for further information.

1. Select the **Recording** tab.
2. Select a camera for which motion detection is enabled from the camera list.
3. Select the **Longtime recording** sub-tab.
4. Select all time segments in the time table.
   See Section *"", page 16*.
5. In the ***Pretrigger/longtime recording*** group field under **frame rate**, select the value *10.0/s*.
6. Select the **Motion** sub-tab.
7. Select all time segments for Saturday and Sunday.
8. In the ***Pretrigger/longtime recording*** group field under **frame rate**, select the value *20.0/s*.
9. In the **Posttrigger** group field, enter the value **1** in the text field **Duration: m** and the value **0** in the text field **s**.
10. Click **Apply**.
    ➔ The settings will be saved. The time table will appear as follows:

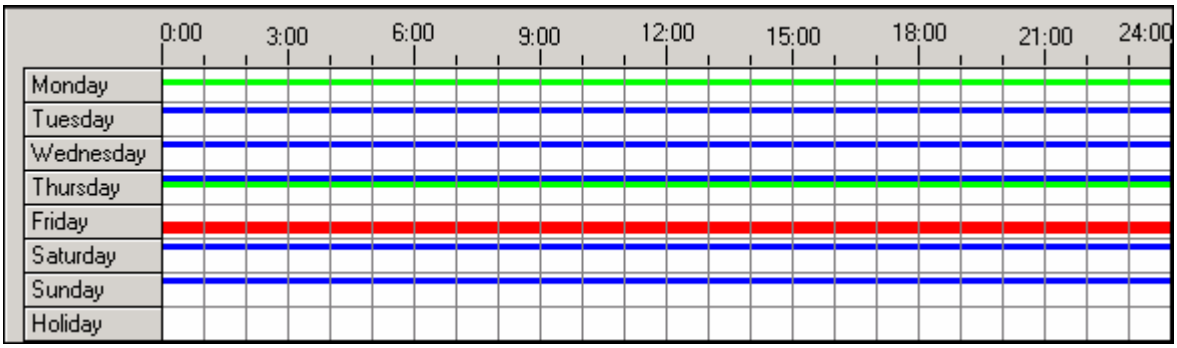


Fig. 93 Time table on the *Recording* tab

Transferring recording settings

In the **Copy settings** context menu, you can specify that a certain number of recording settings are transferred from a camera to one or more other cameras.

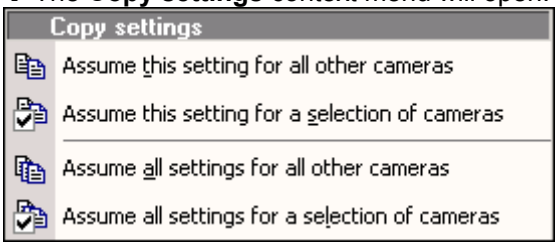
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section “Configuration mode“, *page 15* for further information.

1. Select the Recording tab.

2. Right click on a configured camera in the camera list.

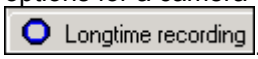
➔ The **Copy settings** context menu will open.



You have four options:

Applying a setting to all other cameras

Prerequisite:

You are on the cameras list and have opened the possible options for a camera (+); now right-click on an option, e.g. **Longtime recording** 

.

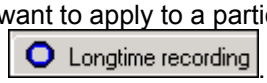
1. Select **Assume this setting for all other cameras**.

➔ The **Copy settings** context menu will close.

➔ The setting will be saved.

Applying a setting to a selection of cameras

Prerequisite

You are on the sub-tab for the setting which you want to apply to a particular selection of cameras, such as longtime recording 

.

1. Select **Assume this setting for a selection of cameras**.

➔ The **Select cameras** window will appear.

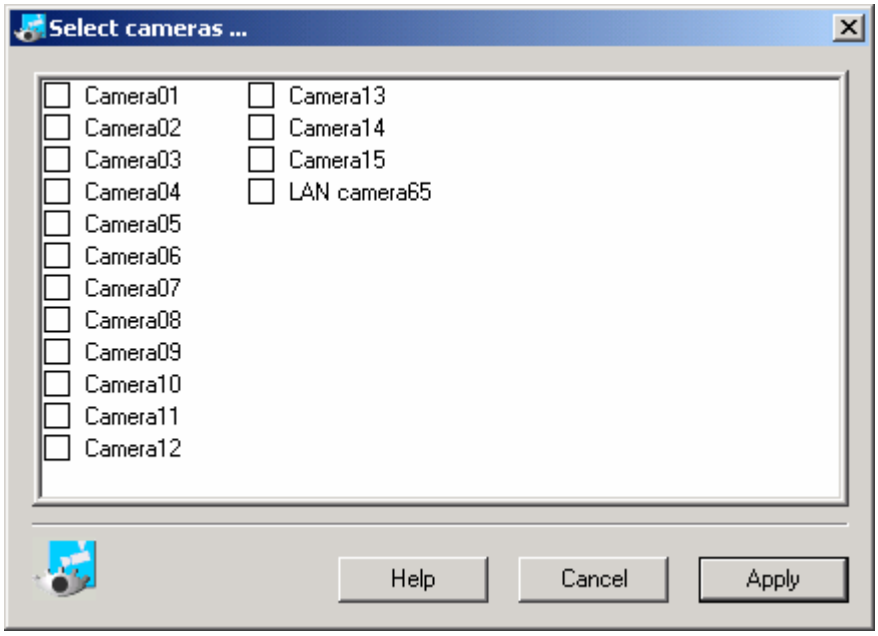
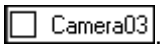


Fig. 94 Select cameras dialog on the Recording tab

2. Mark the checkboxes in front of the desired cameras 

.

3. Click **Apply**.

➔ The **Select cameras** window will close.

➔ The setting will be saved.

Applying all settings to all other cameras

1. Select **Assume all settings for all other cameras**.

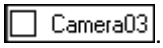
➔ The **Copy settings** context menu will close.

➔ The settings will be saved.

Applying all settings to a selection of cameras

1. Select **Assume all settings for a selection of cameras**.

➔ The **Select cameras** window will appear.

2. Mark the checkboxes in front of the desired cameras 

.

3. Click **Apply**.

➔ The **Select cameras** window will close.

➔ The setting will be saved.

Configuring the overwriting of recordings

Deactivating overwrite mode

With the checkbox **Deactivate overwrite mode – stop recording** you can configure the SISTORE MX NVS software to stop saving recordings as soon as the hard drive capacity is exhausted. This means that no recordings will be deleted on the hard drive to make room for further recordings.

WARNING	If the hard drive capacity is exhausted, the message that **recording has stopped because no storage space is available** will appear on the screen and an entry will be made in the logbook. Furthermore, the **Error** LED will be lit. To switch off the indication manually, you must first make space available on the hard drive by deleting old recordings (see the user guide).

NOTE:
This option is not available if bank mode is enabled.

Fig. 95 *Deactivate overwrite mode - stop recording* checkbox

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Database** tab.
2. Mark the checkbox **Deactivate overwrite mode - stop recording**.
3. Click **Apply**.
➔ The setting will be saved.

Warning if overwriting relevant data

With the **day(s)** field you can define a period in which all recordings are saved and not automatically overwritten. With the checkbox **Warning if overwriting relevant data within** you can configure a warning message to appear before the SISTORE MX NVS application software deletes a recording from this period. This warning makes you aware that the SISTORE MX NVS application software requires more hard drive capacity or a higher image compression.

NOTE:
If you delete a recording from this period manually, no warning message will be shown.

Fig. 96 *Warning if overwriting relevant data within* checkbox

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Database** tab.
2. Mark the checkbox **Warning if overwriting relevant data within**.
3. In the **day(s)** field, select the number of days that are to be saved and not automatically overwritten.
4. Click **Apply**.
➔ The settings will be saved.

Configuring data storage

General information about the storage location

The SISTORE MX NVS application software supports recording on separate hard drives and hard drive partitions.

DANGER	Ensure that there is sufficient storage space on the target drive. Do not use external USB hard drives, since this can lead to data loss. Do not use CD/DVD writers as "substitute" hard drives, since these are not supported by the SISTORE MX NVS application software.

Drives enabled for recording

After activating the bank and automated teller operation (cash box mode), the drive **D:** is reserved for recording cash box image files and is no longer available.

Use of network drives

All network drives for which the user has rights will be shown in the list of drives. As soon as a network drive is selected, the local drives serve only as replacement drives for if the network drive fails. If the network drive becomes available again after it has been unavailable, recording will take place again on the network drive after the next file change.

Network drives must generally be mapped, i.e. access to a network drive can only occur via a drive letter and not via a shared name. Ensure that the network drive is sufficiently fast and has enough bandwidth.

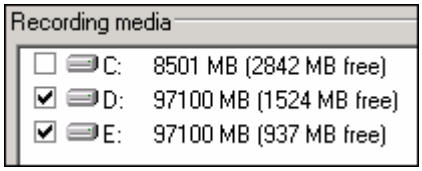


Fig. 97 Drive list in the *Recording media* group field

Selecting a storage location for recordings

In the **Recording media** group field, you can specify the drives on which the video data are to be saved.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. In the **Recording media** group field, select the drives on which you want to save the video data.
3. Click **Apply**.
   ➔ The setting will be saved.

Using maximum hard drive capacity

In order to ensure system stability, 15% of the hard drive capacity is reserved for the operating system. By marking the checkbox **Use max. hard drive storage capacity** you can deactivate this limitation. However, this can lead to an unstable and unusable system. We recommend not setting this option.

After an update this option is set and must be manually reset by the user.

Fig. 98 *Use max. hard disk storage capacity* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. If you want maximum usage of the hard drive capacity: Mark the checkbox **Use max. hard disk storage capacity**.
3. Click **Apply**.
   ➔ The setting will be saved.

Selecting a storage location for the database

In the **Database directory** group field, you can choose another directory if the database is to be stored somewhere other than in the SISTORE MX NVS main directory.

Fig. 99 *Database directory* group field on the *Database* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Database** tab.
2. Mark the checkbox **Database directory**.
➔ The SISTORE MX NVS dialog will open.

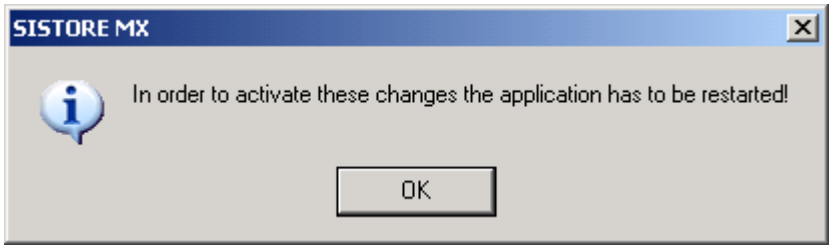


Fig. 100 SISTORE MX NVS dialog

3. Click **OK**.
4. Click the **Open** button .
➔ The **Select directory** dialog will appear.
5. Select the desired directory.
6. Click **Select**.
➔ The **Select directory** dialog will close.
7. Click **OK**.
➔ The SISTORE MX NVS **Configuration** window will close.
➔ You will be in display mode.
8. Confirm the message that follows with **Yes**.
➔ The SISTORE MX NVS application software will close.

NOTE:
If you wait longer than 10 seconds, the SISTORE MX NVS application software will close automatically.

9. Start the SISTORE MX NVS application software.

Selecting a storage location for backup

In the **Backup** group field, you can specify the drives on which the backup will be saved. The SISTORE MX NVS application software creates a new directory with each backup in which a copy of the database is saved. The directory will be named after the starting point of the backup:
YYYY-MM-DD-HH-MM-SS

YYYY	year
MM	month
DD	day
HH	hour
MM	minute
SS	second

A dedicated subdirectory will be created for each camera.

CAUTION	Ensure that there is sufficient storage space on the target drive. See Section *"*General information about the storage location*", page 108* for further information.

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. Click the **Open** button  .
➔ The **Select directory** dialog will appear.
4. Select the desired directory.
5. Click **Select**.
➔ The **Select directory** dialog will close.
6. Click **Apply**.
➔ The setting will be saved.

Clearing the backup directory

With the checkbox **Clear directory before**, you can specify that all subdirectories of the backup directory be deleted.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software", page 12.
  The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", page 15.

Fig. 101 *Clear directory before* checkbox on the *Database* tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. Mark the checkbox **Clear directory before**.
4. Click **Apply**.
   ➔ The setting will be saved.

Choosing the backup schedule

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software", page 12.
  The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", page 15.

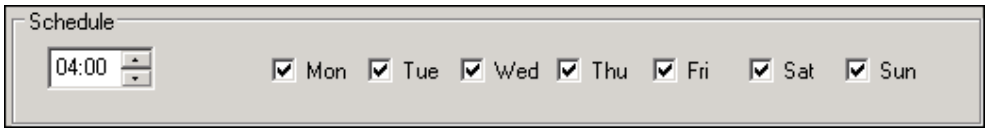


Fig. 102 Schedule group field on the Database tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. Select the time at which the backup is to take place in the **time** field.
4. Mark the checkboxes for the days on which the backup is to be performed.
5. Click **Apply**.
   ➔ The setting will be saved.

Selecting the type of recordings for backup

In the **Backup** group field, you can specify whether a complete backup or an incremental backup is to be performed.

Complete	All data will be saved. The backup can take a lot of time and require a lot of storage space.
Incremental	All data generated since the last backup are saved.

In order not to affect the system performance too much the priority of the backup process is lower than the priority of other processes. With a higher priority, it would not be possible to record and play back at the same time. The backup process takes a long time due to its low priority. An incremental backup should be complete within 24 hours.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
  The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

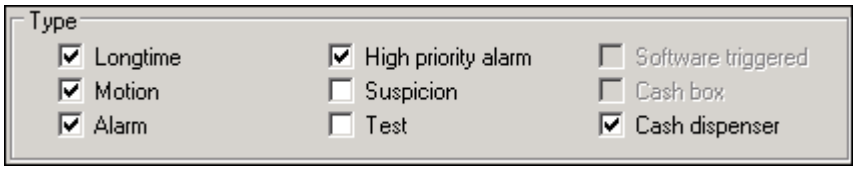
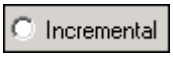


Fig. 103 *Type* group field on the *Database* tab

1. Select the **Database** tab.
2. Mark the checkbox **Backup**.
3. You have two options:

- Select the radio button **Complete**  if you want to save all the data. The backup can take a lot of time and require a lot of storage space.
  or
- Select the radio button **Incremental**  if you want to save all the data generated since the last backup.

4. Mark the checkboxes of the recording types you want to save in the backup.
5. Click **Cameras...**  .
➔ The **Select cameras** window will appear.
6. Select the cameras the recordings of which you want to save in the backup.
7. Click **Select**.
➔ The **Select cameras** window will close.
8. Click **Apply**.
➔ The settings will be saved.

Configuring alarm response

Configuring e-mail notification

Enabling e-mail notification

With the checkbox **Send e-mail** you can specify that an e-mail be sent if a warning or problem occurs.

An e-mail is sent in the case of the following problems:	
Camera is missing / available again	Hard drive full, recording stopped
UPS reports power failure / power supply restored	Failure of a hard drive
Hard drive online again after failure	Relevant data overwritten
Recording could not be started	SISTORE MX not properly closed
Fatal recording error	

NOTE:
In case of a problem, only the main recipient will be notified.

Sending of these messages can take place via network/DSL or an installed modem/ISDN. For the network option an SMTP mail server must be available on the network.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Send e-mail**.

3. Select the **E-mail and SMS** tab.
4. Mark the checkbox **Enable e-mail/SMS notification**.

5. Click **Apply**.
➔ The settings will be saved.

Setting notification via the SMTP server

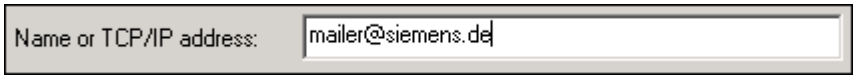
Prerequisites

➔ The SISTORE MX NVS application software is started.
See Section „Starting the SISTORE MX NVS application software*", page 12*.

➔ The SISTORE MX NVS application software is in configuration mode.
See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.

2. Enter the IP address or name of the outgoing mail server in the text field **Name or TCP/IP address**.



This is either

- the IP address of the mail server available on the network
  or
- the IP address or name of an SMTP server of a service provider
  or
- the IP address or name of an ESMTP server of a service provider

Example: 123.45.67.8 or mail.providername.com

The fields **User name** and **Password** must only be filled out if an ESMTP server is used.

3. Enter the user name for the ESMTP server in the **User name** text field.

4. Enter the password for the ESMTP server in the **Password** text field.

5. Enter the object name or SISTORE MX NVS server name in the e-mail address format in the **Sender** text field.
Example: objectname@company.com

Note
If this information is not available, contact your network administrator or Internet service provider.

6. Click **Apply**.
➔ The setting will be saved.

Configuring the connection to the SMTP server

In the **Connection to mail server** group field, you can determine whether the connection to the SMTP server takes place via a mail server on the local network or via a dial-in connection (RAS).

NOTE:
RAS connections must be configured beforehand via the operating system.
Please ensure that the RAS server service does not use the same ISDN device as the SISTORE MX NVS, because otherwise no connection to the SISTORE MX NVS unit will take place.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.

You have two options to specify the connection to the SMTP server:

2. Click the radio button by **via local area network (LAN)**.

or

Click the radio button by **via remote access service (RAS)**.

3. Select the desired connection from the dropdown list.

4. Click the **RAS manager** button.

➔ The **Network connection** window will appear.

5. Select the desired connection or add a new connection.

6. If you have added an RAS connection or renamed one: close the **Network connection** window and re-open it.

➔ The newly added RAS connection will be shown.

7. Select this connection.

NOTE:
Give the RAS connection of an imported configuration and the RAS configurations of the original device the same names.

8. Click **Apply**.

➔ The setting will be saved.

Entering e-mail recipient data

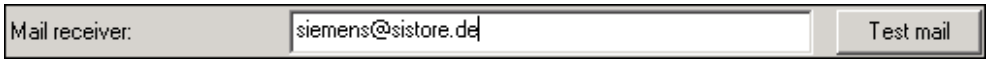


Fig. 104 *Mail recipient* text field on the *E-mail and SMS* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.
2. Select the **Main receiver** sub-tab.
3. Enter a main recipient for e-mail in the **Mail receiver** text field in e-mail address format (mandatory).
4. Example: john.doe@security.com

NOTE:
Multiple recipients can be entered in this text field. Separate the individual e-mail addresses with a semicolon. The field is limited to 256 characters.
In case of a problem, only the main recipient will be notified.
This person will receive all e-mail notifications at any time of day or night.

5. Click **Apply**.
➔ The setting will be saved.

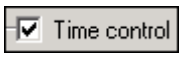
E-mail notification test

You can test whether the main recipient receives an e-mail in case of a warning or problem.

1. Click **Test mail**.
➔ A test e-mail will be sent to the main recipient.
2. Check the e-mail inbox of the main recipient.

Configuring time control

In the group field **Time control**, you can determine the period in which the second through fifth recipient receives an e-mail. The main recipient receives all e-mail notifications at any time of day or night.



Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.
2. Select the **2. receiver** sub-tab.
3. Mark the checkbox **Time control** in the **Time control** group field.
4. Click **Options...**.
➔ The SISTORE MX NVS **Time control** window will open.

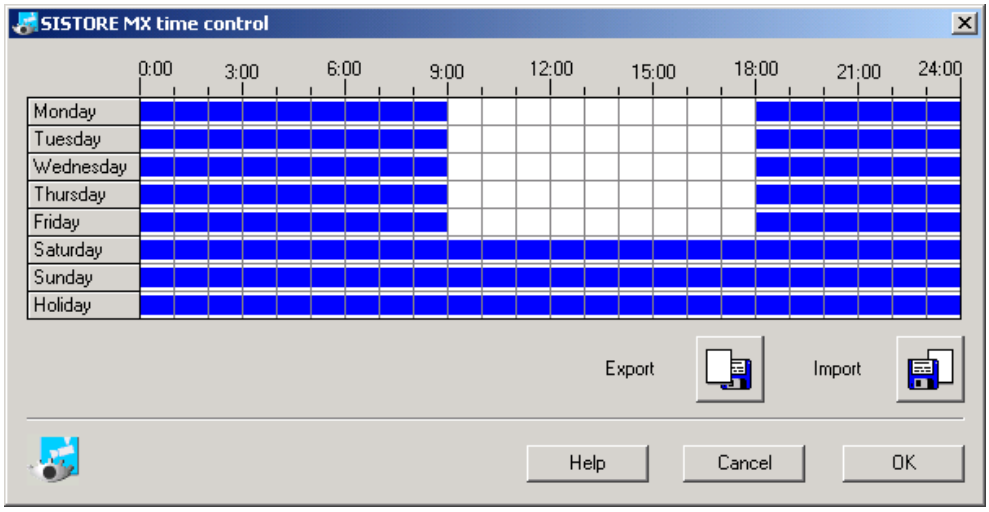


Fig. 105 SISTORE MX NVS *Time control* dialog

5. Set the desired time period. See also Section "7.1.4 SISTORE MX NVS time control window" for more information.
6. Click **OK**.
➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple recipients.
8. Click **Apply**.
➔ The setting will be saved.

Configuring SMS notification

Enabling SMS notification

With the checkbox **Send SMS** you can specify that an SMS be sent if a warning or problem occurs.

An SMS is sent in the case of the following problems:	
Camera is missing / available again	Hard drive full, recording stopped
UPS reports power failure / power supply restored	Failure of a hard drive
Hard drive online again after failure	Relevant data overwritten
Recording could not be started	SISTORE MX not properly closed
	Fatal recording error

NOTE:
In case of a problem, only the main recipient will be notified.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Send SMS**.

3. Select the **E-mail and SMS** tab.
4. Mark the checkbox **Enable e-mail/SMS notification**.

5. Click **Apply**.
➔ The settings will be saved.

17.2.2 Entering SMS recipient data

Fig. 106 *SMS receiver* text field on the *E-mail and SMS* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.
2. Select the **Main receiver** sub-tab.
3. In the text field **SMS receiver**, enter the telephone number with the network information as shown in the example.

Examples:

- D1 network: <telephone number>@t-d1-sms.de
- D2 network: <telephone number>@d2-message.de
- E network <telephone number>@smsmail.eplus.de
- E2: <telephone number>@o2online.de

NOTE:
SMS messages are sent to the mobile telephone via the e-mail function of the provider, thus it must be enabled to receive e-mail SMS messages. The receipt of such SMS messages generally incurs fees for the mobile telephone user.

4. Repeat steps 2 and 3 as often as required if you want to set up multiple recipients.

NOTE:
In case of a problem, only the main recipient will be notified.
He receives all SMS messages at any time of the day or night if the relevant mobile telephone is switched on.

5. Click **Apply**.
➔ The setting will be saved.

Sending a test SMS

You can test whether the main recipient receives an SMS in case of a warning or problem.

1. Click **Test SMS**.
➔ An SMS will be sent as a test.
2. Check whether the SMS arrives.

Configuring time control

In the group field **Time control**, you can determine the period in which the second through fifth recipient receives an SMS. The main recipient receives all SMS notifications at any time of day or night.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **E-mail and SMS** tab.
2. Select the **2. receiver** sub-tab.
3. Mark the checkbox in the **Time control** group field.
4. Click **Options...**.
➔ The SISTORE MX NVS **Time control** window will open.
5. Configure the time table. See Section *"*SISTORE MX NVS time control dialog*", page 16*.
6. Click **OK**.
➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple recipients.
8. Click **Apply**.
➔ The setting will be saved.

Configuring the alarm connection

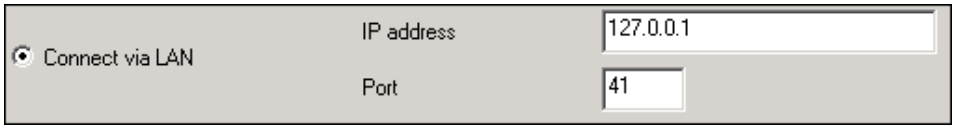
Configuring the network alarm connection

On the main connection sub-tab you can specify that a connection to a SISTORE RemoteView client is established in case of an event and the live image of the affected camera is shown on the SISTORE RemoteView client.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"*Starting SISTORE RemoteView*", page 156* for further information.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView application software.
  See Section *"", page 160* for further information.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Alarm call**.
3. Select the **Alarm connection** tab.
4. Select the **main connection** sub-tab.



5. Select the option **Connect via LAN**.

6. Enter the IP address in the **IP address** field.
7. Enter the port in the **Port** field.
8. Repeat steps 2 and 5 as often as required if you want to set up multiple connections.

NOTE:
In case of an event, the system attempts to call the main recipient via the main connection. If this does not succeed, a call to the second recipient is made via the first alternative connection, etc.

9. Click **Apply**.
   ➔ The settings will be saved.

Configuring the ISDN alarm connection

On the main connection sub-tab you can specify that a connection to a SISTORE RemoteView client is established in case of an event and the live image of the affected camera is shown on the SISTORE RemoteView client.
Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156* for further information.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView application software.
  See Section *"", page 160* for further information.
- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Alarm call**.

3. Select the **Alarm connection** tab.
4. Select the **main connection** sub-tab.

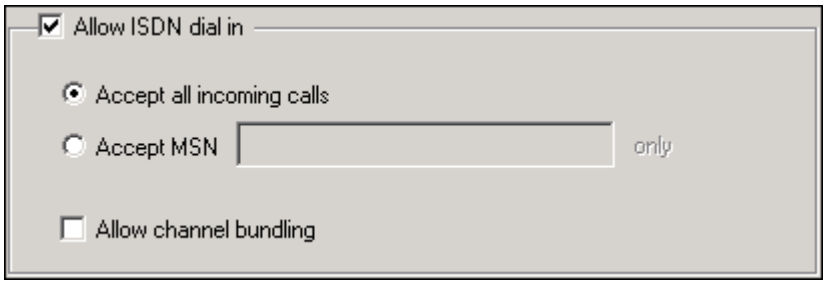


Fig. 107 Allow ISDN dial-in group field on the Network tab

5. Select the radio button **Connect via ISDN**.
6. Enter the telephone number in the **Phone number** field.
7. Mark the checkbox **ISDN channel bundling**.
8. Repeat steps 2 and 5 as often as required if you want to set up multiple connections.

NOTE:
In case of an event, the system attempts to call the main recipient via the main connection. If this does not succeed, a call to the second recipient is made via the first alternative connection, etc.

9. Click **Apply**.
   ➔ The settings will be saved.

Configuring time control

In the **Time control** group field, you can determine the period during which an alarm connection is to take place.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156* for further information.
- The option **Allow alarm connection** is enabled in the SISTORE RemoteView application software.
  See Section *"Configuring network connections", page 160*.
- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Alarm connection** tab.
2. Select the **1. alternative connection** sub-tab.
3. Mark the checkbox in the **Time control** group field.
4. Click **Options...**.
   ➔ The SISTORE MX NVS **Time control** window will open.
5. Configure the time table.
   See Section *"SISTORE MX NVS time control dialog", page 16*.
6. Click **OK**.
   ➔ The SISTORE MX NVS **Time control** window will close.
7. Repeat steps 2 and 6 as often as required if you want to configure time control for multiple alternative connections.
8. Click **Apply**.
   ➔ The setting will be saved.

Configuring the FTP server

You can configure a connection to the FTP server on the **FTP** tab. In case of an alarm, the alarm message will be stored as an MSG and an alarm image as a JPEG in the root directory on the FTP server. This procedure is based on a special German standard (EBÜS from Accelance). The root directory is in the **Users** directory. Usually a dedicated root directory is created for each user of the FTP server.
The alarm image and text file will be named after the starting point of the alarm: YYYYMMDDHHMMSSxxx.jpg

YYYY	year
MM	month
DD	day
HH	hour
MM	minute
SS	second
xxx	milliseconds

In case of an alarm, a subdirectory will be created which is named after the camera for which the alarm occurred.

CAUTION Ensure that there is sufficient storage space on the target drive.

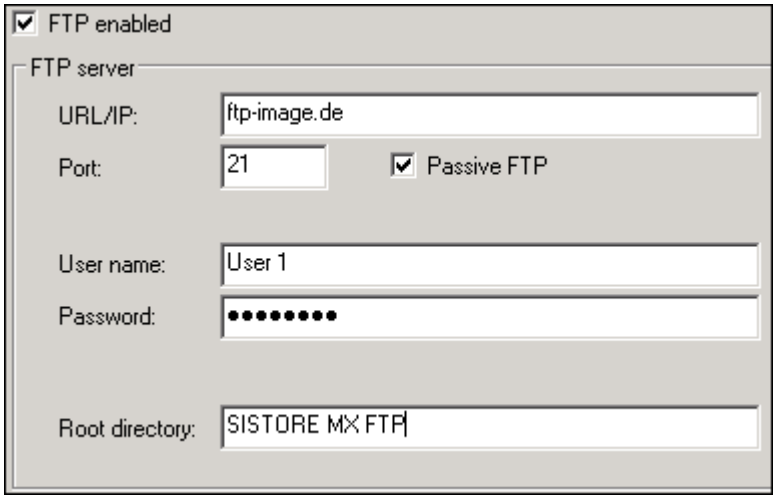


Fig. 108 *FTP server* group field on the *FTP* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

1. Select the **Alarm input** sub-tab on the **Recording** tab.
2. Mark the checkbox **FTP** FTP.
3. Click **Apply**.
➔ The setting will be saved.
4. Select the **FTP** tab.
5. Mark the checkbox **FTP enabled**.
6. Enter the IP address of the FTP server in the **URL/IP** text field.

Note
If this information is not available, contact your network administrator or Internet service provider.

7. Enter the port number of the FTP server in the **Port** text field. The port is usually 21.
8. If the SISTORE MX NVS application software is operated behind a firewall, mark the checkbox **Passive FTP**.
9. Enter the user name for the FTP server in the **User name** text field.
10. Enter the password for the FTP server in the **Password** text field.
11. Enter the name of the directory in which all alarm images are to be saved in the text field **Root directory**.
If you have not entered a name in the text field **Root directory**, the alarm images will be saved directly in the Users directory.
12. Click **Apply**.
➔ The setting will be saved.

Configuring bank mode

Enabling bank mode

NOTE:
Cash register mode and bank mode are mutually exclusive. Only one of the two tabs is available at any time.

Fig. 109 *Bank mode* checkbox on the *System* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Mark the checkbox **Bank mode**.
➔ The SISTORE MX NVS dialog will open.

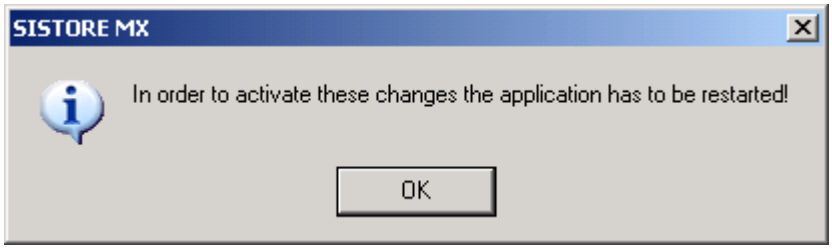


Fig. 110 SISTORE MX NVS dialog

3. Click **OK**.
➔ The SISTORE MX NVS application software will close.
4. Start the SISTORE MX NVS application software.
➔ The **Banking** tab will be shown.

Configuring the number of recordings

In the **Cash box parameters** group field you can specify how many test, suspicion and holdup recordings are saved continuously. For suspicion and holdup recordings, the SISTORE MX NVS application software creates an internal write protection that cannot be removed by the user.
As soon as the set number of suspicion and holdup recordings is reached, the system enables the oldest recording of the particular type to be deleted. Afterward this recording is treated like an ordinary room recording and can be automatically overwritten by the system if necessary.

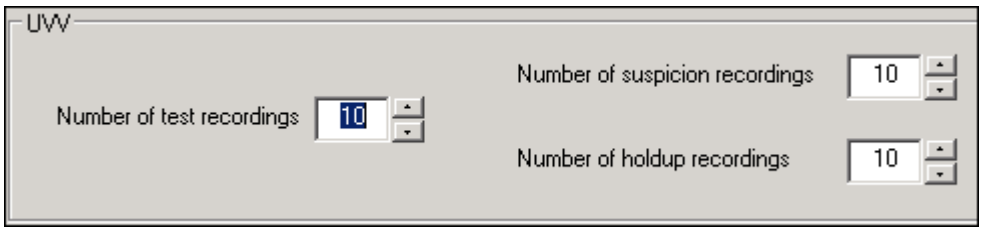


Fig. 111 *Cash box parameters* group field on the *Banking* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Banking** tab.
2. Enter a value in the **Number of test recordings** field.
3. Enter a value in the **Number of suspicion recordings** field.
4. Enter a value in the **Number of holdup recordings** field.
5. Click **Apply**.
➔ The settings will be saved.

Configuration of automated teller mode

Enabling automated teller mode

NOTE:
Cash register mode and bank mode are mutually exclusive. Only one of the two tabs is available at any time.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.
- Bank mode is enabled.
  See Section *"*Enabling bank mode*", page 125*.

1. Select the **System** tab.
2. Mark the checkbox **Cash dispenser**.
➔ Confirm the message that follows with **OK**.
3. Click **OK** on the **System** tab.
➔ The SISTORE MX NVS dialog will open.

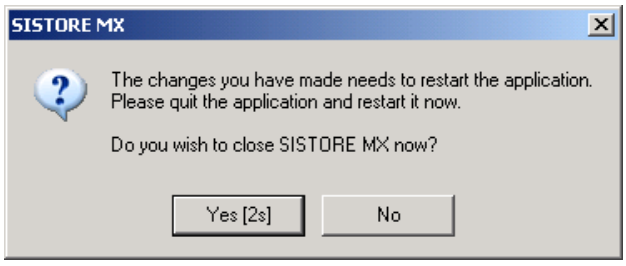


Fig. 112 SISTORE MX NVS dialog
➔ The SISTORE MX NVS application software will close.

If you wait longer than 10 seconds, the SISTORE MX NVS application software will close automatically.

4. Start the SISTORE MX NVS application software.
➔ The **Banking** tab will show the automated teller (cash dispenser) mode.

Configuring automated teller monitoring

Configuring dilBM_PBM type

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software“, *page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15*.

1. Select the **Banking** tab.

2. Select the desired cash dispenser in the automated teller list.

Fig. 113 Automated teller list on the *Banking* tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

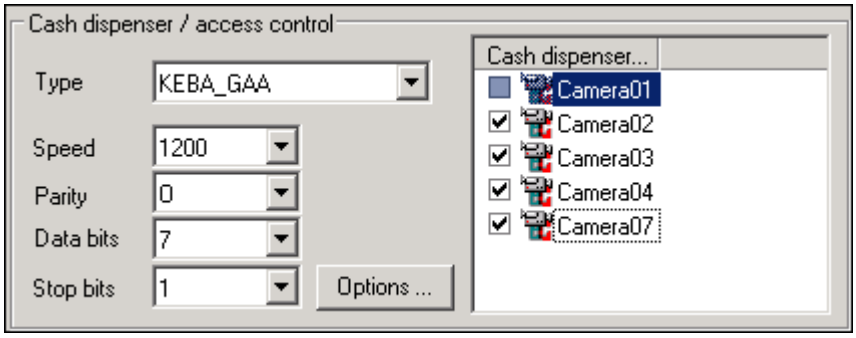


Fig. 114 *Cash dispenser / access control* group field on the *Banking* tab

The SISTORE MX NVS application software supports up to 8 automated tellers of various manufacturers and protocols:

Automatic teller	Type	Cross-reference
ASCOM	IBM_PBM type	
DIEBOLD	IBM_PBM type	
IBM	IBM_PBM type	
IBM_PBM	IBM_PBM type	
KEBA_GAA	IBM_PBM type	
KEBA_ZKS	SNI_DREBA type	Section *"Configuring the SNI_DREBA type", page 137*
NCR	NCR type	Section *"Configuring the NCR type", page 134*
SNI	NCR type	Section *"Configuring the NCR type", page 134*
SNI_DREBA	SNI_DREBA type	Section *"Configuring the SNI_DREBA type", page 137*
SNI_PBM	IBM_PBM type	

➔ The selected automated teller will be shown with the name of the manufacturer or the protocol in the automated teller list.

➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the automated teller documentation.

Note
The combination ***7 data bits*** and ***parity = none*** is not supported.

4. Click **Options...**.

➔ The SISTORE MX NVS **Cash dispenser options – IBM_PBM** window will open.

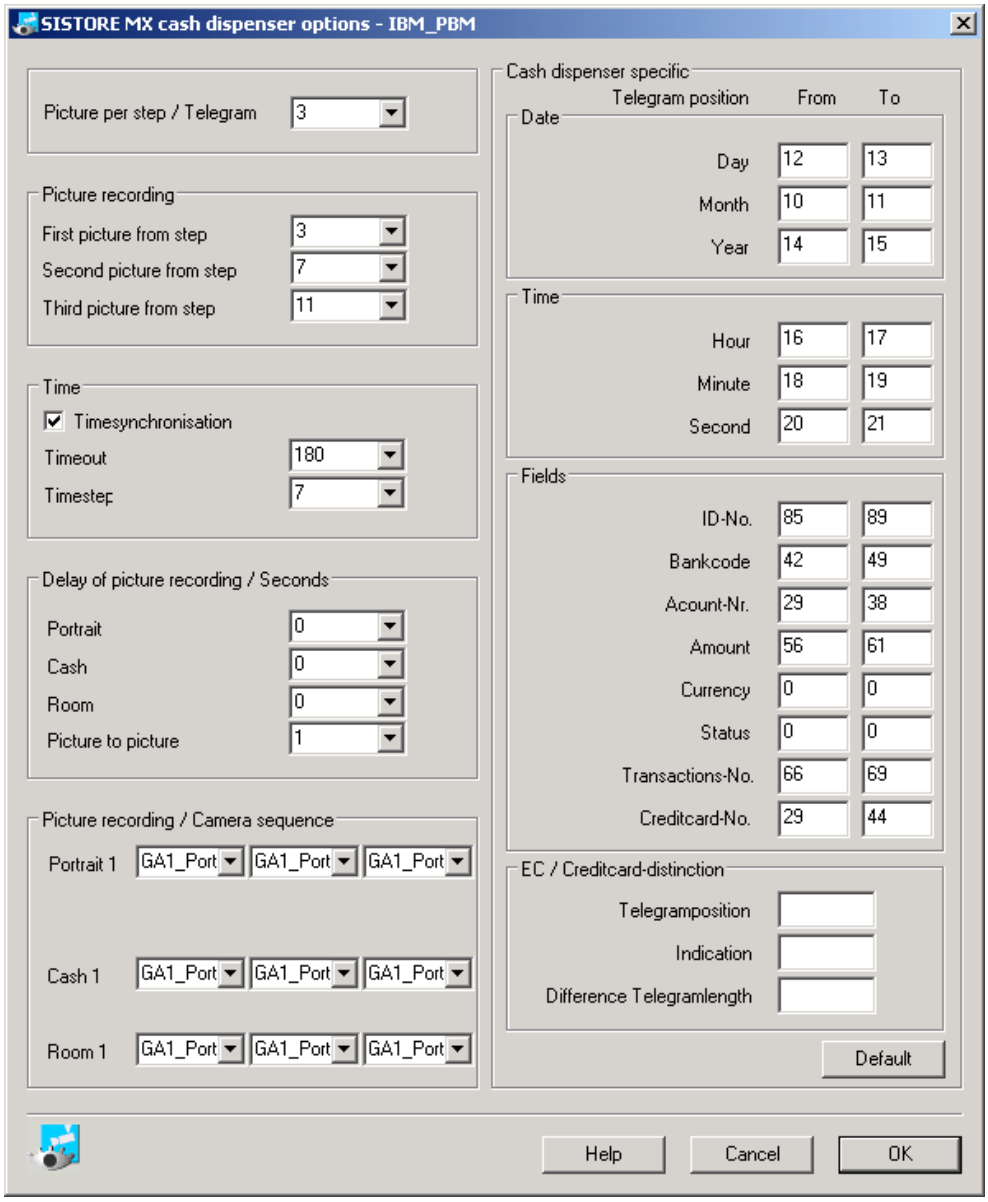


Fig. 115 Settings of the IBM_PBM automated teller type

The following settings can be made in this window:

Note
The IBM, IBM_PBM, SNI_PBM, DIEBOLD, KEBA_GAA and ASCOM automated teller types work according to the PBM (Personal Banking Machine) protocol from IBM. The settings options of these automated teller types can differ a little from the settings options of the PBM type.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Picture recording

The image recording for the images 1, 2 and 3 (or for the image group if multiple images are recorded from one camera or various cameras for a telegram) will be initiated based on the step ID, i.e. the step ID determines whether and when an image or an image group is recorded. The setting for which steps are used is made here with three configurable steps:

- **First picture from step:** for the first image recording
- **Second picture from step:** for the second image recording
- **Third picture from step:** for the third image recording

If no step is specified for the third image or for the image group, image 3 will be recorded at a delay time (VZ_BILD_BILD) from image 2 which can be set in the configuration.

Note
In order for the automated teller link to ensure secure operation, at least two fields (step 3 and 10 or 11) in the automated teller must be enabled!
The enabling takes place directly on the automated teller via the “CI”. This involves the configuration file “Custom.dat”.

Time

The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple automated tellers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. We recommend enabling time synchronization only for one interface (one automated teller); if the automated tellers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step is missing, for example with an account balance query. The specification of the timeout is in seconds.
  TIMEOUT=300
  If a transaction is ended by a timeout, an archive entry with status=2 is made.
- **Timestep:**
  The TIMESTEP parameter can determine which telegram is used for the synchronization. This is to achieve optimal agreement of the time between the SISTORE MX NVS archive and the automated teller journal.

Delay of picture recording

The following fields can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:

- Portrait
- Cash
- Room
- Picture to picture

The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence
Here you set the sequence of the cameras for image recording at the various telegram times.

Cash dispenser specific

Note
Here there are default values which can be changed for the individual automated teller types.

- Date: day, month, year
- Time: hours, minutes, seconds
- Account number
- Bank code
- Amount
- Currency
- Status
- Transaction number
- Credit card number
- ID no. (workstation ID)

To determine the positions from the telegram, the log mechanism in the file **GAA.ini** in the [DEBUGINFO] section is to be activated.
Then the telegrams can be represented via the log file DTC_GAA.log.

EC / Credit card distinction
The telegrams of EC cards and credit cards differ, depending on automated teller machines or computing centers, by particular **characteristic** characters (such as blank spaces), which are at a particular position in the telegram and also differ sometimes in the length of the telegram. These characteristic characters are identifiable by their ASCII code.

- Enter the position of the characteristic character, such as 39, in the field "Telegram position".

Example	
39	Position for differentiating between EC and credit card

- Enter the ASCII code of the characteristic character in the field "Indication", such as the number "32" for a blank space.

Example	
37	Character for differentiation as ASCII code //e.g. Chr(32) = " "

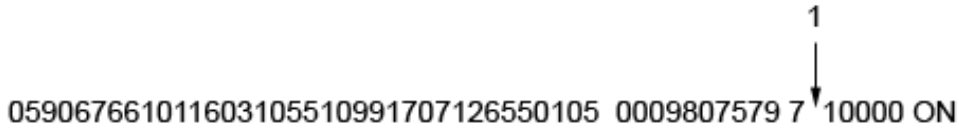
In exceptional cases, the telegram generated by a credit card is longer.

- Enter the difference in telegram length of the two card types in the corresponding field, for example 7.

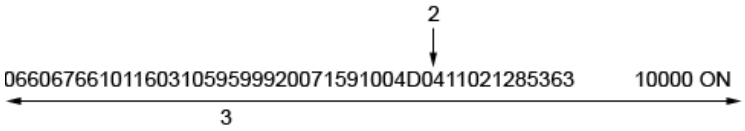
Example	
7	// Difference in telegram length between EC and credit card, for example 7

With EC cards there is a blank space at position 39. Credit cards have no blank space at this position. A blank space has the ASCII code "32".

Telegram for an EC card:



Telegram for a credit card:



1	Blank space at position 39; the ASCII code for a blank space is 32
2	No blank spaces
3	The difference in telegram length between an EC card and a credit card is 7 characters

1. Click **OK**.
➔ The SISTORE MX NVS **Cash dispenser options** window will close.

You have two options to assign automated teller cameras:

2. Mark the checkbox in front of the desired camera in the automated teller camera list.
or
3. Right-click on the automated teller camera list.
➔ The SISTORE MX NVS context menu will open.
4. Mark **Select all**.
➔ All cameras will be selected.

Note
You can assign a maximum of 3 automated teller cameras to each automated teller.

5. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.
6. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

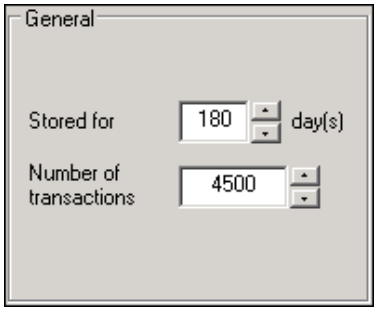


Fig. 116 Cash dispenser / access control *General* group field on the *Banking* tab

Note
Automated teller recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

Configuring the NCR type

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Banking** tab.

2. Select the desired cash dispenser in the automated teller list.

Fig. 117 Automated teller list on the *Banking* tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

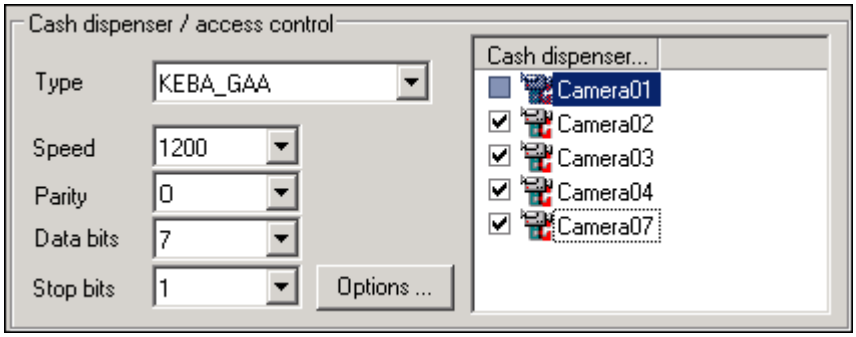


Fig. 118 *Cash dispenser / access control* group field on the *Banking* tab

The SISTORE MX NVS application software supports up to 8 automated tellers of various manufacturers and protocols:

Automatic teller	Type	Cross-reference
ASCOM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
DIEBOLD	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
IBM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
IBM_PBM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
KEBA_GAA	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
KEBA_ZKS	SNI_DREBA type	Section *"Configuring the SNI_DREBA type", page 137*
NCR	NCR type	
SNI	NCR type	

Automatic teller	Type	Cross-reference
SNI_DREBA	SNI_DREBA type	Section *"Configuring the SNI_DREBA type", page 137*
SNI_PBM	IBM_PBM type	Section *"Configuring dilBM_PBM type", page 128*

➔ The selected automated teller will be shown with the name of the manufacturer or the protocol in the automated teller list.

➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the automated teller documentation.

NOTE
The combination *7 data bits* and *parity = none* is not supported.

4. Click **Options...**.

➔ The SISTORE MX NVS **Cash dispenser options – NCR** window will open.

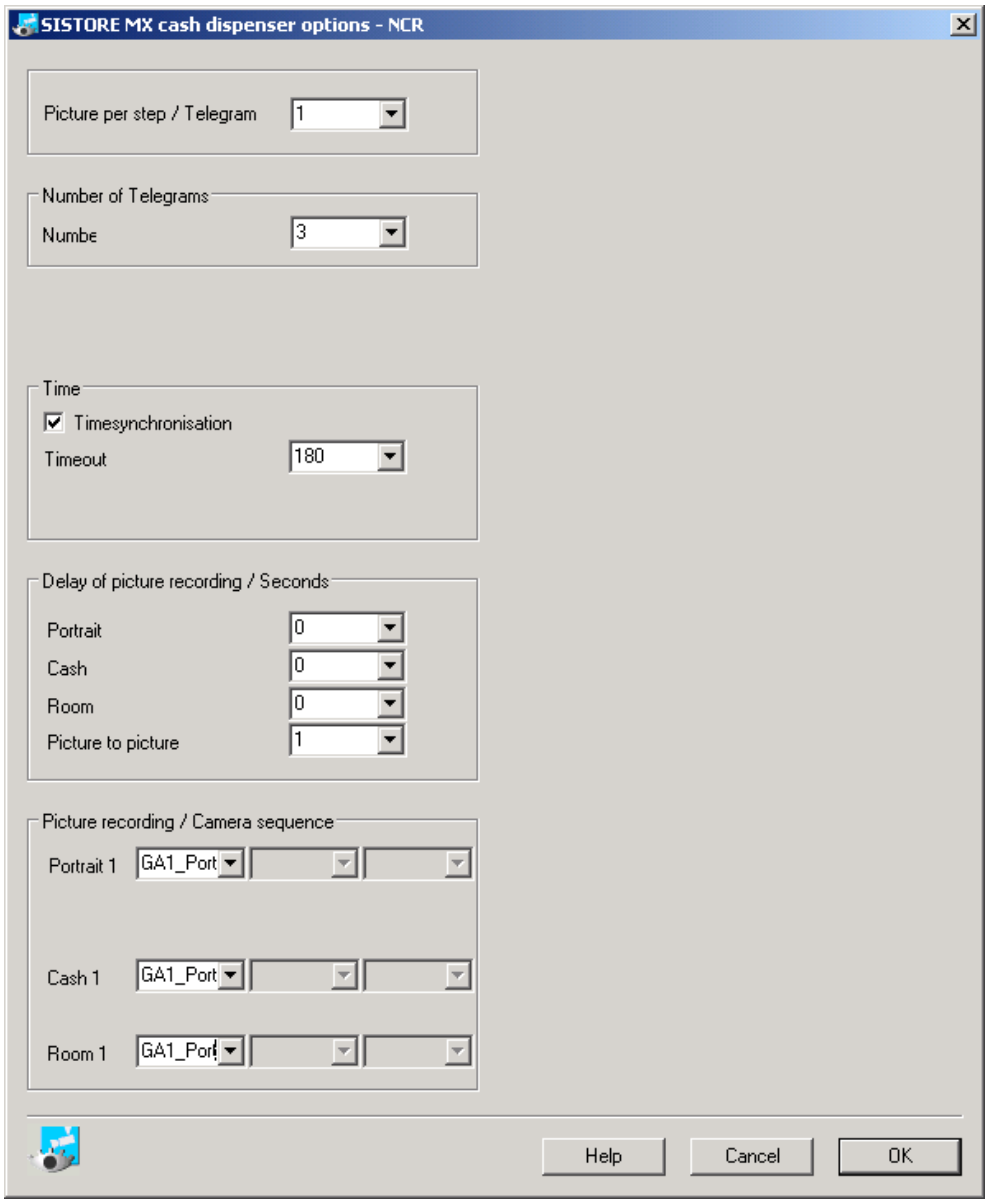


Fig. 119 Settings of the NCR automated teller type

The following settings can be made in this window:

Note
In contrast to the automated teller type SNI, for the NCR automated teller type only the field "Number" is shown in the group field **Number of telegrams**.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Number of telegrams
Enter the number of telegrams sent by the automated teller here

Time
The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple automated tellers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. It is recommended to enable time synchronization only for one interface; if the automated tellers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step is missing, for example with an account balance query. The specification of the timeout is in seconds.
  TIMEOUT=300
  If a transaction is ended by a timeout, an archive entry with status=2 is made.

Delay of picture recording / seconds
The following fields can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:

- Portrait
- Cash
- Room
- Picture to picture

The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence
Here you set the sequence of the cameras for image recording at the various telegram times.

1. Click **OK**.
2. The SISTORE MX NVS **Cash dispenser options** window will close.
You have two options to assign automated teller cameras:

- Mark the checkbox in front of the desired camera in the automated teller camera list.
  ➔ The SISTORE MX NVS context menu will open.
  or
- Right-click on the automated teller camera list.
  ➔ The SISTORE MX NVS context menu will open.

3. Mark **Select all**.
➔ All cameras will be selected.

Note
You can assign a maximum of 3 automated teller cameras to each automated teller.

4. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.

5. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

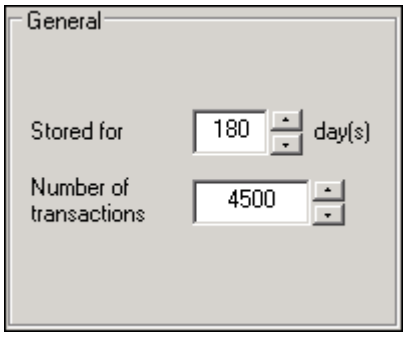


Fig. 120 Cash dispenser / access control *General* group field on the *Banking* tab

Note
Automated teller recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

Configuring the SNI_DREBA type

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Banking** tab.

2. Select the desired cash dispenser in the automated teller list.

Fig. 121 Automated teller list on the *Banking* tab

3. Select the desired manufacturer or protocol from the **Type** dropdown list.

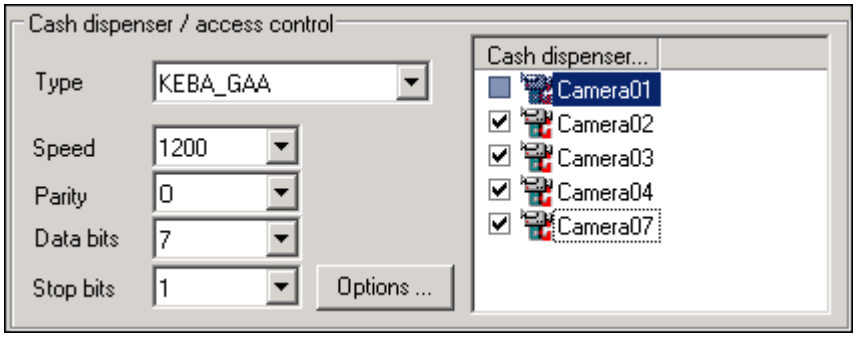


Fig. 122 *Cash dispenser / access control* group field on the *Banking* tab

The SISTORE MX NVS application software supports up to 8 automated tellers of various manufacturers and protocols:

Automatic teller	**Type**	**Cross-reference**
ASCOM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
DIEBOLD	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
IBM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
IBM_PBM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
KEBA_GAA	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*
KEBA_ZKS	SNI_DREBA type	
NCR	NCR type	Section *"Configuring the NCR type", page 134*
SNI	NCR type	Section *"Configuring the NCR type", page 134*
SNI_DREBA	SNI_DREBA type	
SNI_PBM	IBM_PBM type	Section *"Configuring diIBM_PBM type", page 128*

➔ The selected automated teller will be shown with the name of the manufacturer or the protocol in the automated teller list.

➔ The interface parameters **speed**, **parity**, **data bits** and **stop bits** are set automatically. Further information on this will be found in the automated teller documentation.

NOTE
The combination *7 data bits* and *parity* = *none* is not supported.

4. Click **Options...**.

➔ The SISTORE MX NVS **Cash dispenser options – SNI_DREBA** window will open.

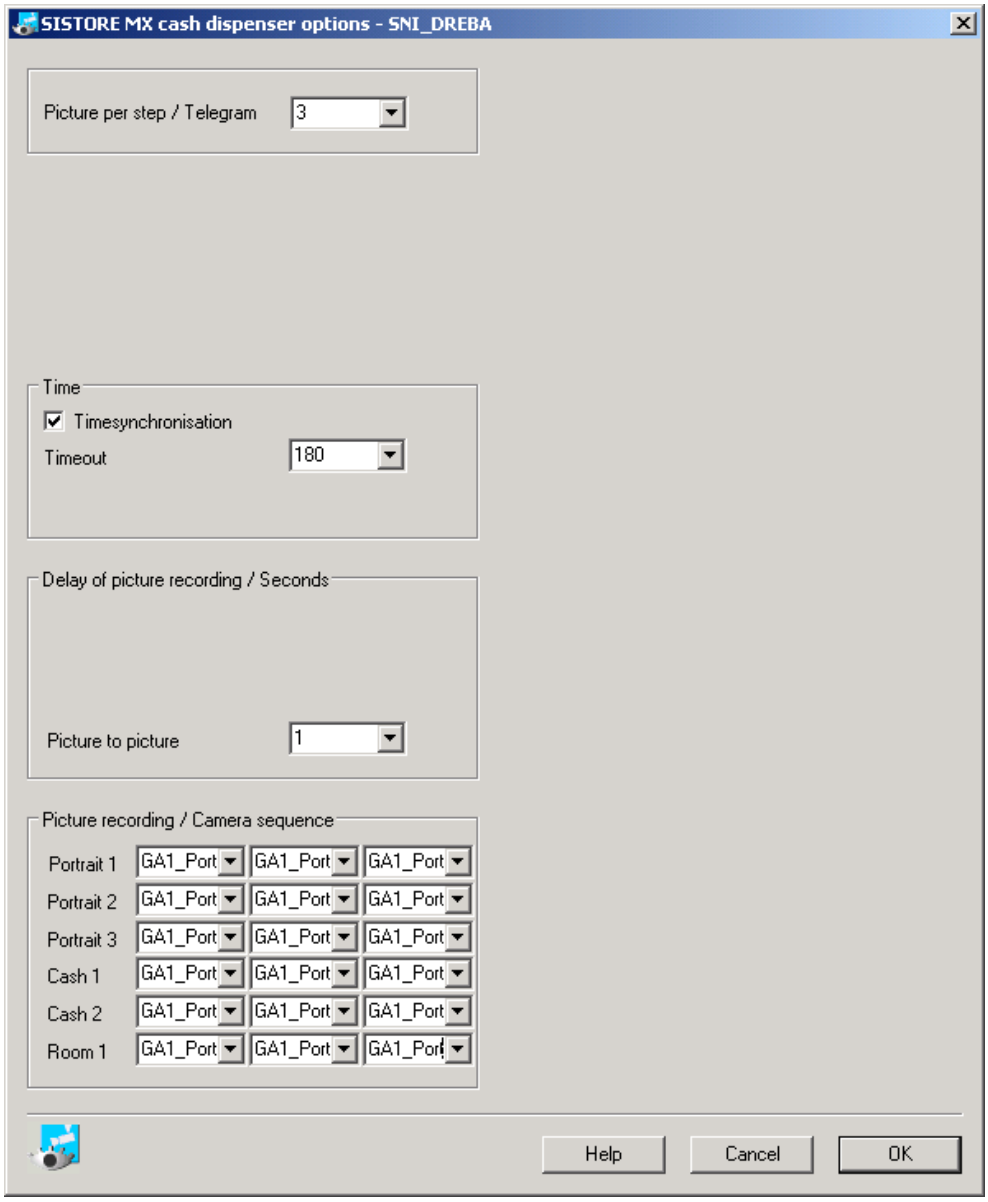


Fig. 123 Settings of the SNI_DREBA automated teller type

➔ The following settings can be made in this window:

Note
In contrast to the automated teller type SNI_DREBA, with the automated teller type KEBA_ZKS no settings can be made for **Picture recording / Camera sequence**.

Picture per step/Telegram
Indicate here how many images per step/telegram are to be recorded.

Time
The following settings can be made in the Time group field:

- **Time synchronization:**
  If multiple automated tellers are connected to a SISTORE MX NVS system this specification can define which ones synchronize the SISTORE MX NVS system. It is recommended to enable time synchronization only for one interface; if the automated tellers have different times, this is urgently necessary.
- **Timeout:**
  After a set timeout period an active transaction is automatically ended. This is necessary in order to close transactions properly for which the last specified step

is missing, for example with an account balance query. The specification of the timeout is in seconds.
TIMEOUT=300
If a transaction is ended by a timeout, an archive entry with status=2 is made.

Delay of picture recording / seconds
The **picture to picture** field can be used to define the delay times in seconds between the arrival of the telegram and the actual recording of the image:
The **picture to picture** dropdown is enabled if a telegram is to result in multiple images being recorded by a camera or an image each from various cameras.

Picture recording / Camera sequence
Here you set the sequence of the cameras for image recording at the various telegram times.

1. Click **OK**.
➔ The setting will be saved.

You have two options to assign automated teller cameras:

- Mark the checkbox in front of the desired camera in the automated teller camera list.
  or
- Right-click on the automated teller camera list.
  ➔ The SISTORE MX NVS context menu will open.

2. Mark **Select all**.
➔ All cameras will be selected.

Note
You can assign a maximum of 3 automated teller cameras to each automated teller.

3. In the **Stored for** field, select the number of days that are to be saved and not automatically overwritten.
4. In the **Number of transactions** field, select the number of transactions that are to be saved and not automatically overwritten.

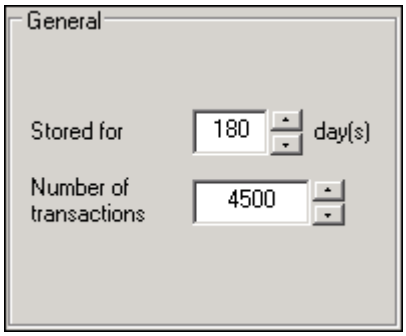


Fig. 124 Cash dispenser / access control *General* group field on the *Banking* tab

Note
Automated teller recordings will be deleted if the storage period or number of transactions is exceeded or if the recording capacity of the hard drive (D:\) is exhausted.

Configuration of cash box mode

Adding a cash box

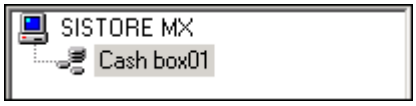


Fig. 125 Cash box list on the *Cash box* tab

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15.*

1. Select the **Cash box** tab.

NOTE:
Depending on the license, the SISTORE MX NVS application software supports up to 4 cash boxes from various manufacturers.

1. Click the **Add** button  .
2. A cash box will be added in the cash box list.
3. Enter a name for the cash box in the **Name** text field.
4. Click **Apply**.
➔ The settings will be saved.

Deleting a cash box

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15.*

1. Select the **Cash box** tab.
2. Select the cash box you want to delete from the cash box list.
3. Click the **Delete**  button.
4. Confirm the message that follows with **OK**.
5. Click **Apply**.
➔ The setting will be saved.

Configuring cash box monitoring

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15.*

1. Select the **Cash box** tab.

2. Select the desired cash box in the cash box list.

➔ In the **Parameters** group field, the type, interface and interface parameters **data rate**, **data bits, parity** and **stop bits** are set automatically. Further information on this will be found in the cash box documentation.

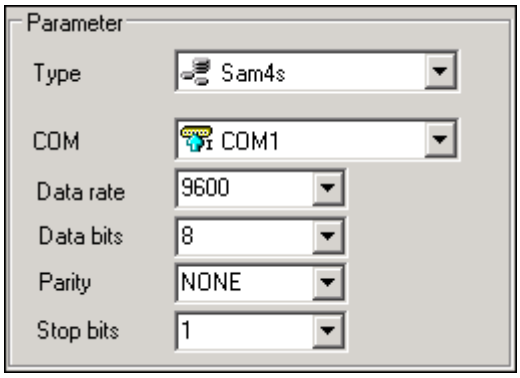


Fig. 126 *Parameters* group field on the *Cash box* tab

3. Select the desired camera from the Camera dropdown list.

NOTE:
You can assign only one camera to each cash box and multiple cash boxes to each camera.

4. Click **Apply**.

➔ The setting will be saved.

Configuring filters

Creating a new filter

In the **Filter** group field you can specify that in the data stream (telegrams) sent by the cash box either uninteresting data are deleted or that an alarm is triggered when a filter word is received. All telegrams received are saved in the database.

NOTE:
Filters must be set up individually for each cash box.

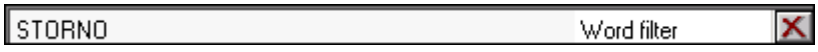


Fig. 127 Fields for setting the filter properties

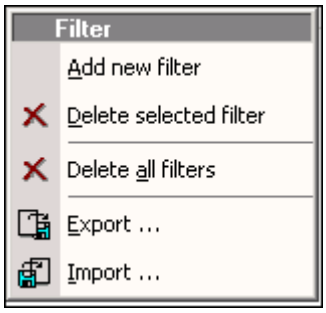
Prerequisites

- The SISTORE MX NVS application software is started. See Section „Starting the SISTORE MX NVS application software*", page 12.*
  The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Cash box** tab.

There are three options for creating the filter:

- Click the **New filter**  button.
  ➔ Two fields for defining the filter properties will be opened. or
- Double-click the white list field.
  ➔ Two fields for defining the filter properties will be opened. or
- Right-click on the background.
  ➔ The context menu will open.



2. Select **Add new filter**.
➔ Two fields for defining filters will be opened.
3. Click on the arrow next to the list field.
4. Select the desired option from the dropdown list.

Word filter	If the filter word occurs as a substring of the received line, the word will be removed from the telegram.
Line filter	If the filter word occurs as a substring of the received line, the entire line will be removed from the telegram.
Alarm trigger	If the filter word occurs as a substring of the received line, an alarm will be triggered.

1. Enter the word to search for in the text field.
2. Click **Apply**. The setting will be saved.

Importing filters

You can import saved filters with the **Import** button.
Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15.*

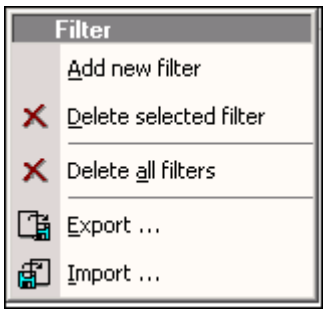
1. Select the **Cash box** tab.
2. Click the **Import** button  .
➔ The **Open** dialog will appear.
3. Select the filters you want to import.
4. Click **Open**.
➔ The filters will be imported. The **Open** dialog will close.

Deleting filters

Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15.*

Deleting a single filter

1. Select the **Cash box** tab.
2. Click in the text field of the filter you want to delete.
You have two options to delete a single filter:
1. Right-click on the background.
➔ The **Filter** context menu will open.



2. Select **Delete selected filter**.
3. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.
or
1. Click the **Delete** button after the filter you want to delete.
2. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.

Deleting all filters

1. Select the **Cash box** tab.
2. You have two options to delete all entries:
3. Right-click on the background.
➔ The **Filter** context menu will open.
4. Select **Delete all filters**.
5. Confirm the message that follows with **Yes**.
➔ The filters will be deleted.
or
6. Click the **Delete all** button .
7. Confirm the message that follows with **Yes**.
➔ All the filters will be deleted.

Exporting filters

The **Export** button can be used to back up filters and transfer them to other systems.
Prerequisites
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*
- At least one filter has been configured.

1. Select the **Cash box** tab.
2. Click the **Export** button .
➔ The **Save As...** dialog will appear.

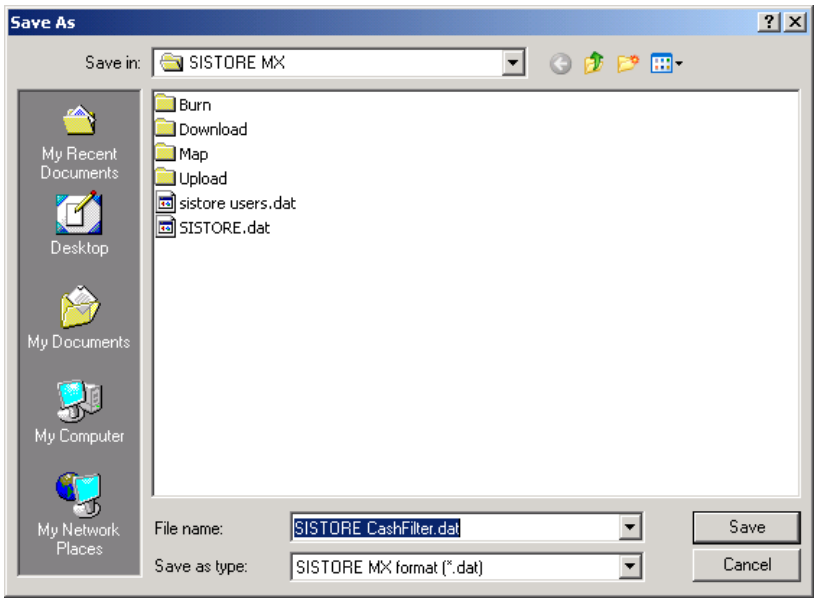


Fig. 128 "Save As..." dialog

3. Select the directory in which to save the filter configuration.
4. Enter a name in the **File name** field.
5. Click **Save**.
➔ The filter configuration will be saved.

Displaying cash box data

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

1. Select the **Cash box** tab.
2. Select the desired cash box in the cash box list (see *"Fig. 125 ", page 141*).
3. Click **Show data...**.
➔ The SISTORE MX NVS **Cash box data** window will open.

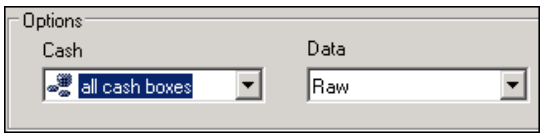


Fig. 129 *Options* group field in the SISTORE MX NVS *Cash box data* window

4. In the **Cash** dropdown list, select *all cash boxes* or *select one cash box*.
5. Select the desired option from the **Data** dropdown list.

Raw	All data will be shown.
Codepage	The data will be shown according to the codepage loaded.
Filter	The filtered data will be shown.

➔ The data will be shown.

NOTE:
Changes to the filter settings will be seen with the next data received.

Configuration of holidays

Adding a holiday

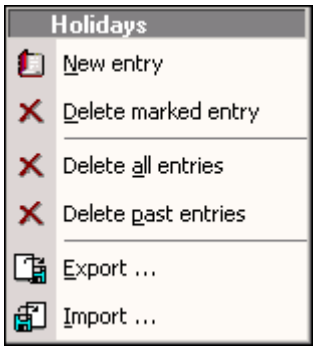
Creating a new holiday

For time control, in addition to the weekdays there is another category of day: the special day, such as holidays.
"Holidays" apply throughout the system and thus cannot be saved separately for an object.
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software", *page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode", *page 15*.

1. Select the **Holidays** tab.
There are three options for defining the holiday:

- Click the **New entry**  button.
  ➔ Three fields for defining holidays will be opened.
  or
- Double-click the white list field.
  ➔ Three fields for defining holidays will be opened.
  or
- Right-click on the background.
  ➔ The context menu will open.



2. Select **New entry**.
➔ Three fields for defining holidays will be opened.

3. Enter a name for the holiday in the text field.

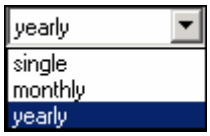
You have two options to define a date for the holiday:

- Enter the desired date in the text field.
  or

1. Click on the arrow next to the list field.
   ➔ The calendar will open.
2. Select the desired day on the calendar.

NOTE:
For annual repetition enter the year as of which the repetition is to occur. For monthly repetition enter the month and year as of which the repetition is to occur.

3. Select "single", "monthly" or "yearly" from the selection field.



4. Click **Apply**.
   ➔ The setting will be saved.

Importing holidays

You can import saved holidays with the **Import** button.
Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **System** tab.
2. Click the **Import** button  .
   ➔ The **Open** dialog will appear.
3. Select the holidays you want to import.
4. Click **Open**.
   ➔ The holidays will be imported.
   ➔ The **Open** dialog will close.

Deleting a holiday

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12.*
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15.*

Deleting marked entries

1. Select the **Holidays** tab.
2. Click in the text field of the entry you want to delete.
You have two options to delete a marked entry:
3. Right-click on the background.
➔ The context menu will open.

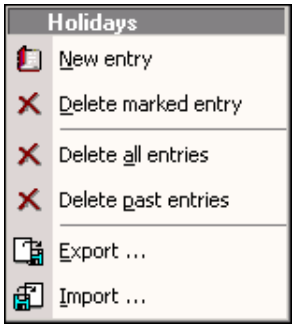


Fig. 130 *Holidays* context menu

4. Select **Delete marked entry**.
5. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.
or
6. Click the **Delete** button  after the entry you want to delete.
7. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.

Deleting all entries

1. Select the **Holidays** tab.
You have two options to delete all entries:
1. Right-click on the background.
➔ The context menu will open.
2. Select **Delete all entries**.
3. Confirm the message that follows with **Yes**.
➔ The entries will be deleted.
or
4. Click the **Delete all** button  .
5. Confirm the message that follows with **Yes**.
➔ All the entries will be deleted.

Deleting past entries

1. Select the **Holidays** tab.
You have two options to delete past entries:

1. Right-click on the background.
   ➔ The context menu will open.
2. Select **Delete past entries**.
3. Confirm the message that follows with **Yes**.
   ➔ The entries will be deleted.
   or
4. Click the  **Delete old** button .
5. Confirm the message that follows with **Yes**.
   ➔ The entries will be deleted.

Exporting holidays

The **Export** button can be used to back up holidays and transfer them to other systems.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.
- At least one holiday has been configured.
  See Section *"Adding a holiday", page 146*.

1. Select the **System** tab.
2. Click the **Export** button  .
   ➔ The **Save As...** dialog will appear.
3. Select the directory in which to save the holiday configuration.
4. Enter a name in the **File name** field.
5. Click **Save**.
   ➔ The holiday configuration will be saved. The **Save As...** dialog will close.

Configuration management

Resetting the configuration

You can reset the configuration to the default settings using the **Reset configuration** button. The settings you have made in the **User management** tab will be maintained.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Information** tab.
2. Click the **Reset configuration** button.
3. Confirm the message that follows with **Yes**.
   ➔ The settings made in the **System** tab will be reset; the user configurations and system settings remain unchanged.

Importing a configuration

You can import saved configuration files with the **Import configuration** button.

NOTE:
If the SISTORE MX NVS unit has already been configured, this configuration will be replaced.
Camera-specific rights can only be imported with the system configuration. When user configurations are imported, the users have all camera rights. The user administrator must check the assignment of rights individually.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Information** tab.

2. Click the **Import configuration**  or **Import user configuration**  button.

3. Confirm the message that follows with **Yes**.
➔ The **Open** dialog will appear.

4. Select the configuration file you want to import.

5. Click **Open**.
➔ The configuration file will be imported. The **Open** dialog will close.

NOTE:
Following the import, check the drives enabled for recording in the System tab (see **Section *"General information about the storage location", page 108***) and all backup settings in the Database tab (see **Section *"Selecting a storage location for backup", page 111*** to **Section *"Selecting the type of recordings for backup", page 113***). If the operating mode of the system was changed, delete all old recordings or create a new database (see User Manual).

Exporting the configuration

The **Export configuration** button can be used to back up the system and user configuration and transfer them to other systems.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **Information** tab.

2. Click the **Export configuration** button  .
➔ The **Save As...** dialog will appear.

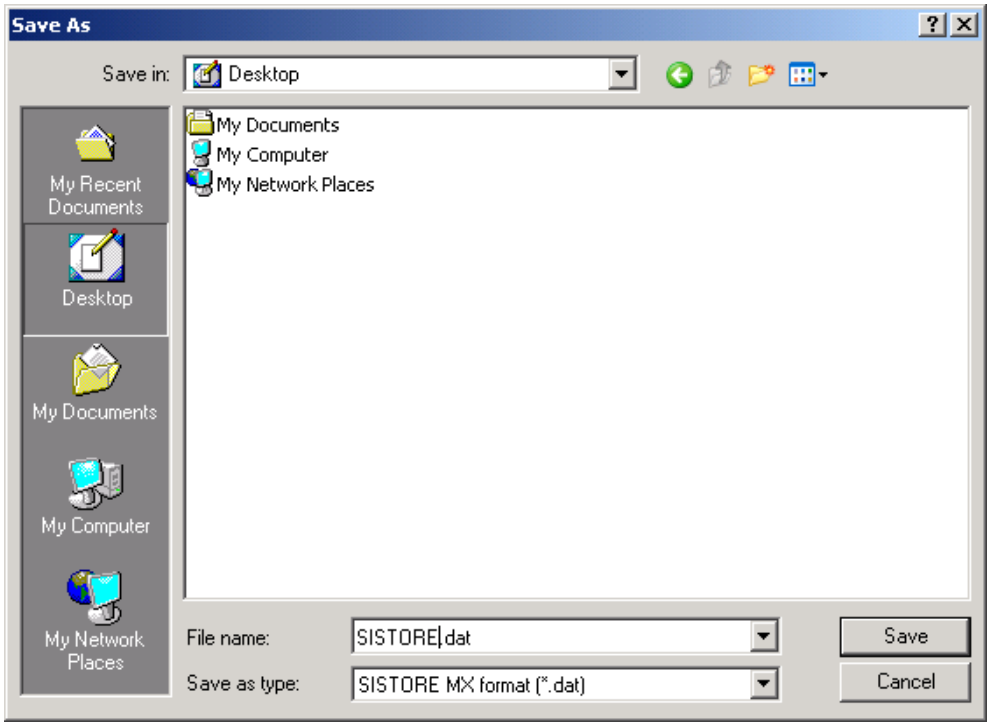


Fig. 131 *Save As* dialog

3. Select the directory in which to save the configuration.

4. Enter a name in the **File name** field.

5. Click **Save**.

➔ The configuration will be saved.

➔ The **Save As...** dialog will close.

Printing the configuration

The **Print configuration** enables you to print out the configuration in formatted text form without graphics. First define what is to be printed.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*“, page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.
- At least one printer is installed on your computer.

1. Select the **Information** tab.

2. Click the  **Print configuration** button .

➔ The SISTORE MX NVS **Print options** dialog will appear.

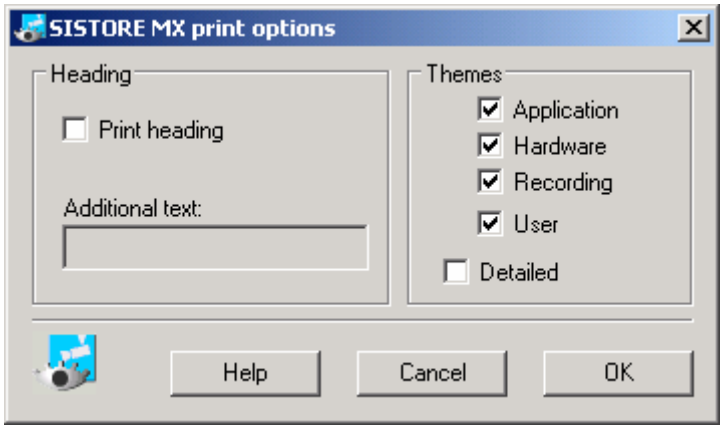


Fig. 132 SISTORE MX NVS print options dialog

3. Mark the checkbox **Print heading**.

NOTE:
You can enter any text in the **Additional text** field. This will be shown on the title page and may not be longer than 64 characters.

4. Mark the information categories you want to print in the **Themes** group field.

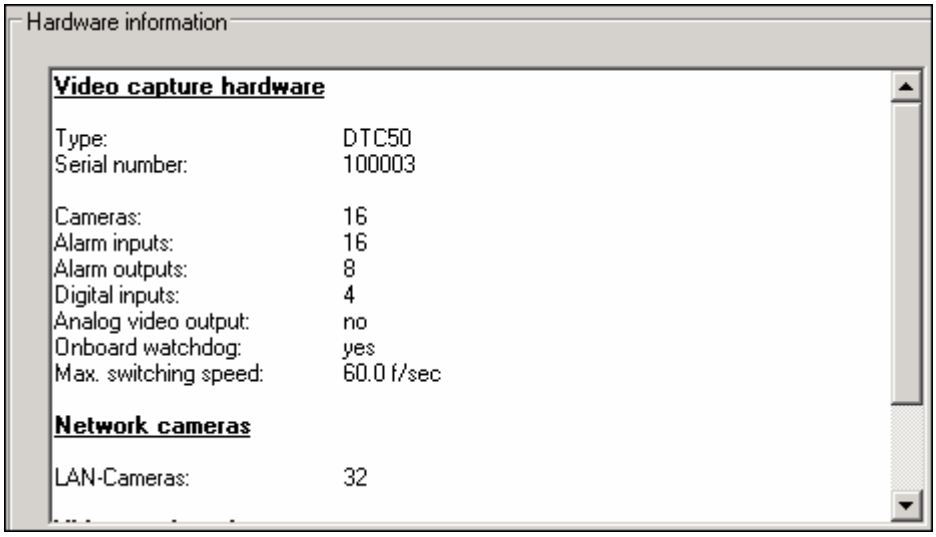
5. Mark the checkbox **Detailed**.

6. Click **OK**.

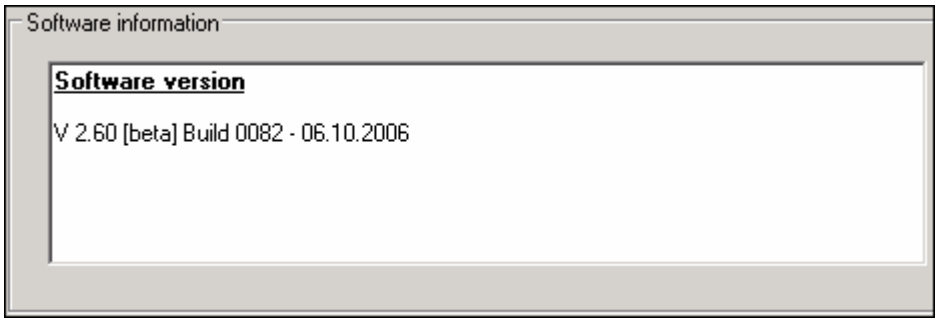
Showing the configuration and system data overview

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

Select the **Information** tab.



The **Hardware information** field lists the technical data for the video recording hardware installed.



The **Software information** field shows the version information. This information is also saved in the configuration file. Thus SISTORE RemoteView can also show with which software version (server) the configuration was saved.

Importing user configurations

You can import user configurations from a user configuration file using the **Import user configuration** button.

NOTE:
If the SISTORE MX NVS unit has already been configured, this configuration will be replaced.
Camera-specific rights can only be imported with the system configuration. When user configurations are imported, the users have all camera rights. The user administrator must check the assignment of rights individually.

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section "Configuration mode*", page 15*.

1. Select the **Information** tab.
2. Click the **Import user configuration** button.
3. Confirm the message that follows with **Yes**.
➔ The **Open** dialog will appear.
4. Select the configuration file you want to import.
5. Click **Open**.
➔ The user configuration will be imported. The **Open** dialog will close.

Testing the Watchdog

NOTE:
In order that the ***Watchdog*** function is available on a server PC, the PC system a must have an integrated Watchdog board.
We recommend integrating a Watchdog module type PWDOG1 from Quancom.
For more information please refer to the Installation Guide, Section 6.2.

The Watchdog restarts the system in case of certain events, such as a server crash.

Function
If the PC system has an integrated Watchdog module from Quancom, this watchdog acts as a timer which closes a relay contact after a specified time. In normal operation, the timer is continuously restarted by the SISTORE MX NVS unit so that it never runs out. If the system gets into a state in which it no longer reacts and can no longer reinitialize the watchdog, the timer runs out, the relay contact is closed and a restart is triggered via the reset line of the system.

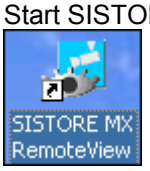
Testing the Watchdog
Prerequisites
- The PC has an integrated Watchdog module from Quancom.
- The SISTORE MX NVS application software is started.
  See Section „Starting the SISTORE MX NVS application software*", page 12*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"*Configuration mode*", page 15*.

1. Select the **Watchdog** tab.
2. Click **Test**.
➔ The SISTORE MX NVS dialog will open.
3. If you want to avoid a reset of the system, pull the reset wire from the main board of the SISTORE MX NVS unit.
4. Click **Yes**.
➔ The system will be closed down and restarted.

Configuring SISTORE RemoteView

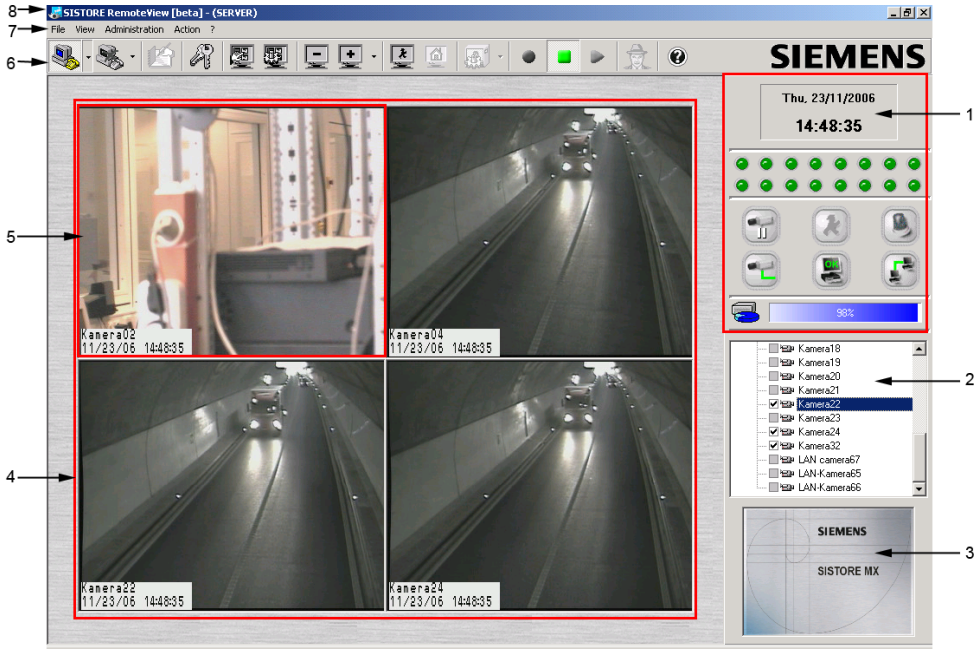
Starting SISTORE RemoteView

Start SISTORE RemoteView via the icon on the desktop.



Program window

The appearance and functions are similar to the display mode of SISTORE MX NVS. In the SISTORE RemoteView display mode, if there are multiple servers connected, the status displays of the selected server will be shown.



The SISTORE RemoteView program window contains the following components:

1	System status and system information.
2	Camera list The available cameras of the server are shown below the entries of the connected servers.
3	Starting image The starting image of the application will be shown if no PTZ camera is present or the logged in user does not have the right to control a PTZ camera.
4	Display area for video images
5	Video images
6	Toolbar
7	Menu bar
8	Title The name of the current active server will be shown.

SISTORE RemoteView toolbar

Nearly all functions of the software can be accessed using the SISTORE RemoteView toolbar. Buttons with the same functions in SISTORE RemoteView have the same appearance as in SISTORE MX NVS.

	Connect remote
	Disconnect remote You can close a single connection or all at once.
	Show/hide logbook.
	Change user
	Next display group. Manual switching to the next camera group.
	Automatic cycle. Automatic switching to the next camera group.
	Show less cameras Each click reduces the number of cameras in the display area.
	More cameras. Clicking the arrow symbol will open a window showing the possible display matrices.
	Show alarm window. An additional alarm window will be shown when an alarm occurs.
	Open map.
	Start monitor cycle.
	Start recording.
	Stop recording.
	Start playback.
	Start virtual guard rounds.
	Open SISTORE RemoteView help.

Status displays

In the SISTORE RemoteView display mode, if there are multiple servers connected, the status displays of the selected server will be shown. To enable a server, the server or a camera of the server must be selected in the camera list.

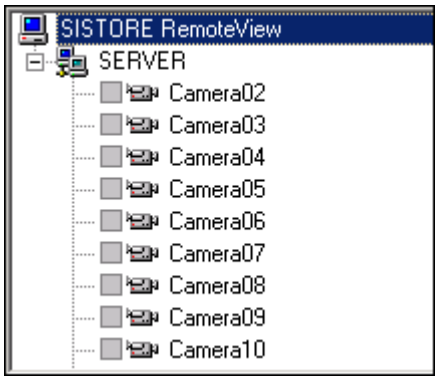


Fig. 133 Camera list

Server-specific status displays

- Time
- Alarm outputs
- Hard drive utilization
- System operating time
- Recording start/stop

Cross-server status displays

The cross-server status display reacts if one of the following events occurs on one of the connected servers:

- Motion
- Alarm
- Loss of video
- Camera tamper
- Error
- Connection

Overview of functions

Single server mode
- Configuration
- Restarting the system.
- Software update
- ATM and cash box search
- Delete
- View logbook

Multi-server mode
- Acknowledge sabotage
- Acknowledge malfunctions
- Cancel alarm

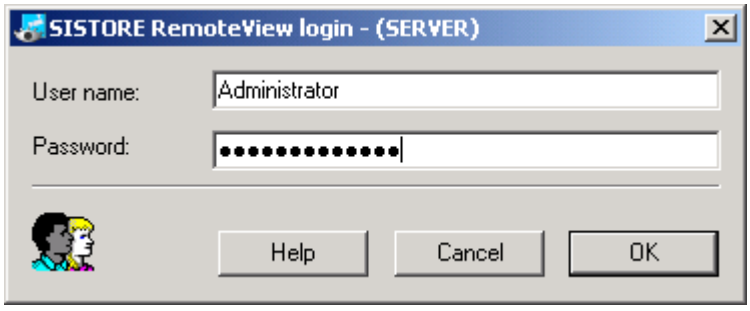
Server-specific functions
- Test alarm
- Cameras on monitor
- Start/stop recording
- Change user
- Logbook comment

Camera-specific functions
Camera-specific functions can be assigned directly to the server belonging to the camera:
- Connection of a camera to an external monitor
- PTZ control

Opening configuration mode

Prerequisites
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in single server mode.

1. Click the **Login**  button.
➔ The **SISTORE RemoteView login** dialog will open.
2. The first time you log in, enter *Administrator* in the **User name** field.
3. The first time you log in, enter *Administrator* in the **Password** field.



NOTE:
Change the user name and password after the first login.

1. Click **Administration** in the toolbar.
2. Click **Configure RemoteView**.
   ➔ The configuration mode will open.

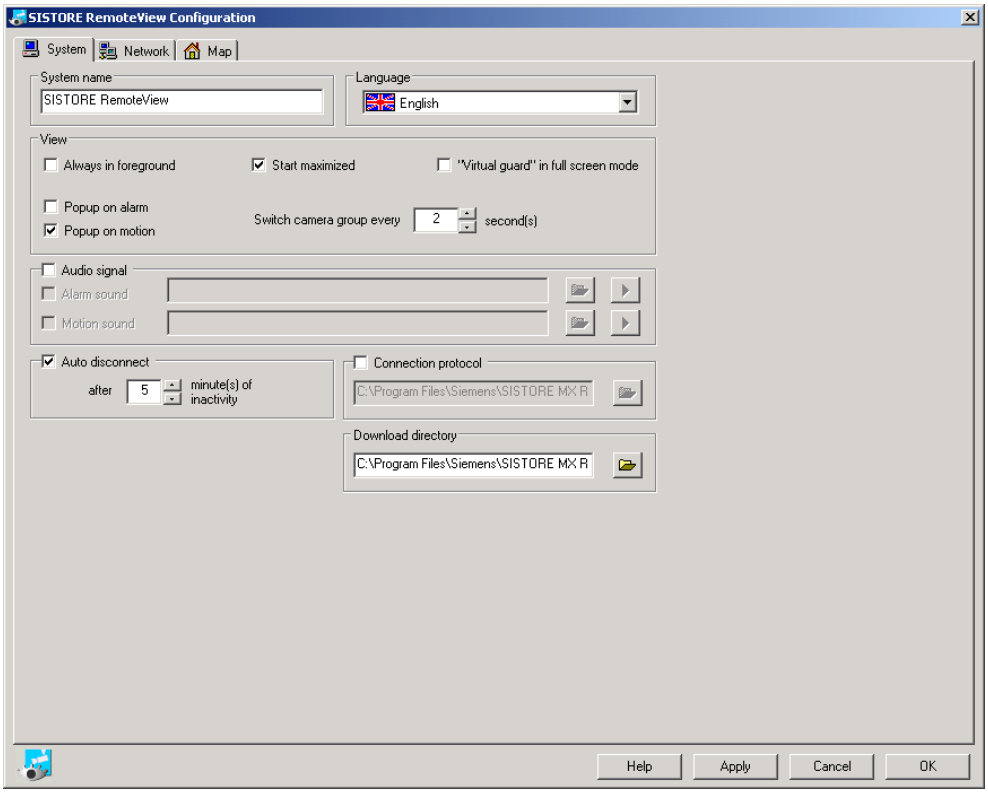


Fig. 134 *System* tab on a client PC that has a CKA device driver installed

NOTE:
The parameters for the SISTORE RemoteView application software are saved in the file SistoreRemoteView.dat.

Configuring network connections

Entering the system name

The system name is used primarily for identification of the system during remote access. Enter the location of the system, for example, as the name.

Prerequisites

- The network has been set up in the operating system and is ready for use.
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Enter the desired designation in the **System name** text field.
3. Click **Apply**.
   ➔ The setting will be saved.

Configuring the network connection

NOTE:
If you operate the SISTORE MX NVS application software or SISTORE RemoteView behind a firewall and want to access via a network, open all ports in the firewall that are used by the software.

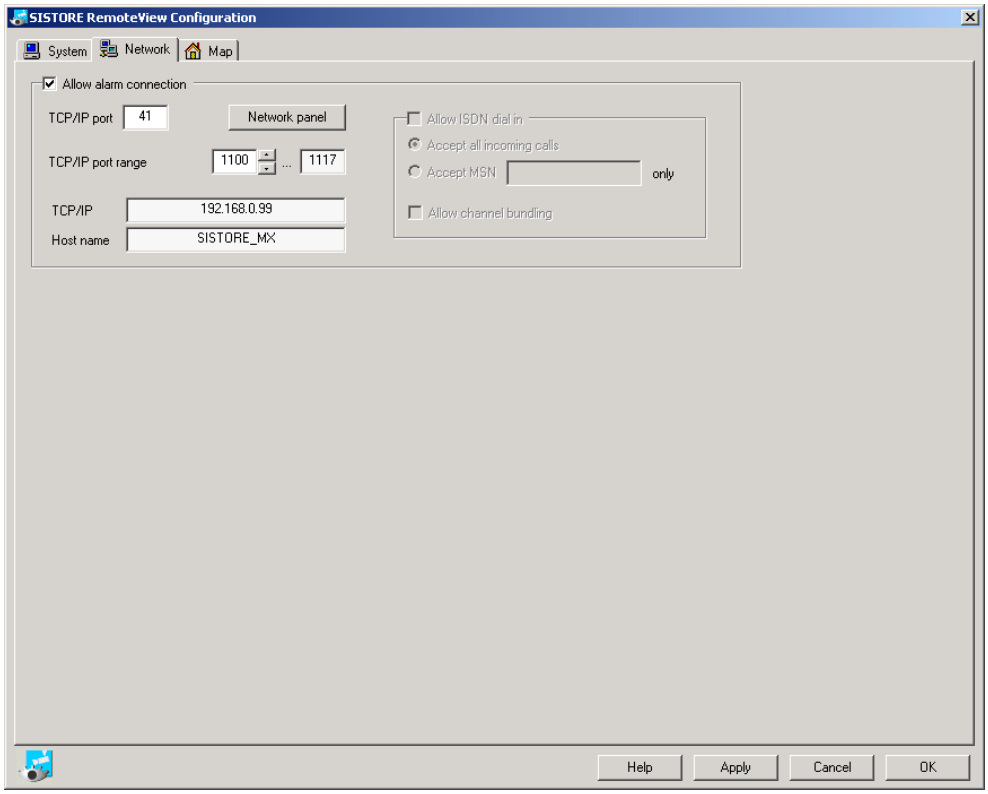


Fig. 135 *Network* tab

Prerequisites

- The client PC with the SISTORE MX RemoteView application software installed is connected to the network.
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **Network** tab.
2. Mark the checkbox **Allow alarm connection**.
3. Confirm the message that follows with **OK**.
4. In the **TCP/IP port** field, enter the number of the port at which the SISTORE RemoteView application software can be reached. Typically port 41 is used.
5. Enter the initial value of the TCP/IP port range in the field for **TCP/IP port range**.
6. The end value of the TCP/IP port range is determined automatically. It depends on the **max. clients** value: two ports are needed for each client.

NOTE:
The TCP/IP address is set during the configuration of the network card. If there is more than one network card in a computer, it is possible that the TCP/IP address shown here will not be that of the LAN card but instead one for another network card.
The host name is shown for information only and is not used by SISTORE RemoteView for any other purpose.

7. Click **Apply**.
➔ The settings will be saved.
8. Select **File** -> **Exit**.
9. Restart the SISTORE RemoteView application software.
10. Configuring ISDN dial-in

Accept all incoming calls

NOTE:
Use the ISDN modem AVM FRITZ! USB v2.0.
We cannot guarantee proper function with other ISDN modems that have not been tested by us.

The SISTORE MX NVS application software and SISTORE RemoteView are **not downward compatible** as of version 2.2.
The SISTORE RemoteView application software reacts only to ISDN calls with the service indicator for **data**. Thus SISTORE RemoteView or the SISTORE MX NVS application software can be operated on an ISDN connection in parallel to ISDN devices with other service indicators.

Prerequisites
- The client PC with the SISTORE MX RemoteView application software installed is connected to the network.
- An ISDN modem is connected to the SISTORE RemoteView unit.
- The SISTORE RemoteView application software is started.
  See Section *"*Starting SISTORE RemoteView*", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"*Opening configuration mode*", page 159*.

1. Select the **Network** tab (see *"Fig. 135 ", page 161*).
2. Mark the checkbox **Allow ISDN dial-in**.
3. Click the option field **Accept all incoming calls**.
4. Click the radio button by **Accept MSN ... only**.
5. Enter the desired multiple subscriber number in the **Allow MSN … only** text field.

You have two options:
- Mark the checkbox **Allow channel bundling** if two channels are to be permitted for an ISDN connection.
  or
- Ensure that the checkbox **Allow channel bundling** is not marked if a B channel is to be kept free for a separate line (such as an alarm system).

6. Click **Apply**.
➔ The setting will be saved.

Selecting the user interface language

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Select a language version from the **Language** dropdown list.
   If you select the entry **automatic**, the SISTORE RemoteView application software starts in the language set as the regional language in the operating system.
3. Confirm the message that follows with **OK**.
4. Click **Apply**.
5. Select **File** -> **Exit**.
6. Restart the SISTORE RemoteView application software.
   ➔ The SISTORE RemoteView application software now uses the selected language.

Configuring the display area

Selecting the initial display mode

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the desired checkbox:

Name of the checkbox	Function
Always in foreground	The SISTORE RemoteView application software will always be shown in the foreground and cannot be covered up by another application.
Start maximized	The SISTORE RemoteView application software will always be shown in the foreground and cannot be covered up by another application.
"Virtual guard" in full screen mode	The virtual guard will run in full screen mode. Only video images will be visible. See Section *"Virtual guard", page 184*.

3. Click **Apply**.
   ➔ The setting will be saved.

Configuring the live image change interval

- The SISTORE MX NVS application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE MX NVS application software is in configuration mode.
  See Section *"Configuration mode", page 15*.

1. Select the **System** tab.
2. In the field **Switch camera group every** select the period after which the switch is made to the next camera group.

Switching times can be selected between 2 and 600 seconds.

3. Click **Apply**.
➔ The setting will be saved.

System message configuration

In the **View** group field you can specify that the SISTORE RemoteView application software is automatically shown in the foreground if an alarm occurs or motion is detected.

- The SISTORE RemoteView application software is started.
  See Section "Starting SISTORE RemoteView*", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the checkbox **Popup on alarm**.
3. Mark the checkbox **Popup on motion**.

In the **Audio signal** group field you can specify that an audio file is played if an alarm occurs or motion is detected.

1. Mark the checkbox **Audio signal**.
➔ The **Audio signal** group field will be enabled.
2. Mark the checkbox **Alarm sound**.
➔ The audio file will be shown in the text field.
3. Mark the checkbox **Motion sound**.
➔ The audio file will be shown in the text field.
4. If you want to select another audio file, click the **Open** button.
➔ The **Open** dialog will appear.
5. Select the desired audio file.
6. Click **Open**.
➔ The audio file will be shown in the text field.
7. If you want to play the audio file to test it, click the **Play** button.
➔ The audio file will be played.
8. Click **Apply**.
➔ The setting will be saved.

Enabling and disabling cameras

The available cameras of a server are shown in the camera list below the entries for the connected servers.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section 0 for further information.
- The SISTORE RemoteView application software is in display mode.

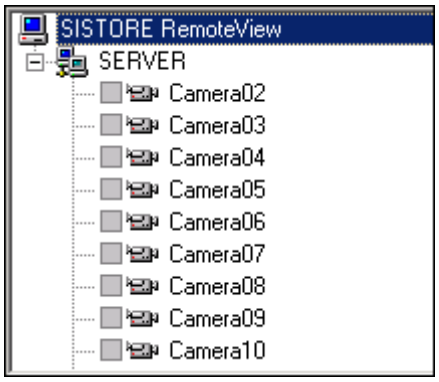
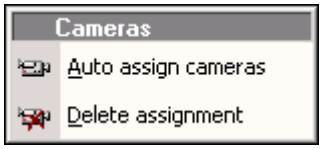


Fig. 136 Camera list

Enabling a camera

1. Right click on the camera in the camera list which you want to enable or disable.
➔ The Cameras context menu will open.



2. Select **Auto assign cameras**.

NOTE:
The assignment of display windows takes place automatically with this function. A maximum of 36 live images can be shown at the same time.

Disabling a camera

1. Right click on the camera in the camera list which you want to enable or disable.
➔ The Cameras context menu will open.

2. Select **Delete assignment**.

Configuring connections

Enabling automatic termination of the connection

With the **Auto disconnect** checkbox you can determine whether a user is automatically logged out after a specified period of inactivity.
Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the checkbox **Auto disconnect**.
3. In the **minute(s) of inactivity** field, specify the time after which the automatic logout is to occur.

NOTE:
The time specification can be set in the range of 1 – 300 minutes.

4. Click **Apply**.
   ➔ The setting will be saved.

Enabling connection logging

In the **Connection protocol** group field, you can specify that logging takes place.
Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the checkbox **Connection protocol**.
3. Click the **Open** button.
   ➔ The **Select directory** dialog will appear.
4. Select the desired folder.

NOTE:
It is recommended not to use a floppy disk drive, because the storage capacity is quickly used up.
You can select a network drive.

5. Click **Select**.
6. The **Select directory** dialog will close.
7. Click **Apply**.
   ➔ The setting will be saved.

Selecting the download directory

In the **Download directory** group field you can specify in which directory the configuration files are saved that are received from the server and needed for the remote configuration.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Click the **Open** button.
➔ The **Select directory** dialog will appear.
3. Select the desired folder.

NOTE:
It is recommended not to use a floppy disk drive, because the storage capacity is quickly used up.

4. Click **Select**.
5. The **Select directory** dialog will close.
6. Click **Apply**.
➔ The setting will be saved.

Connecting to SISTORE MX NVS

In multi-server mode it is possible to observe live images and play back saved ones from various servers via SISTORE RemoteView. Connections can be made to up to 10 servers simultaneously. The connected servers and their cameras are shown in the live image display. A maximum of 10 x 96 = 960 cameras can be listed.

NOTE:
If multiple SISTORE RemoteView clients maintain a connection to the same servers simultaneously there is a higher network load.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

You have two options for establishing a connection:

1. Click on the arrow next to the **Connect** button in the toolbar.
➔ A menu with connections to the SISTORE MX NVS server will be displayed. The upper section of the menu displays the links to up to 10 SISTORE MX NVS servers that were dialled in last. This function is not available the first time a connection is made, because the list shows a history of the connections. The first ten entries of the address book are shown in the lower part of the menu. The address book must be appropriately sorted to show the favored connections here.
➔ The connection will be established.
or
2. Open the address book.
See Section *"Configuring the address book", page 168*.
3. Select the desired connection.
4. Click **OK**.
➔ The connection will be established.

Enabling the CCTV keyboard

Selecting the serial interface

In the **Connection protocol** group field, you can specify that logging takes place.

NOTE:
The CKA driver must be installed.

Prerequisites
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the checkbox **Operating panel**.
3. Select the serial interface to which your operating panel is connected from the **COM** field.
4. Click **Apply**.
   ➔ The setting will be saved.

Enabling button delay

With the checkbox **Button delay** you can define the period after which input from the CCTV keyboard is transmitted to the SISTORE RemoteView application software.

Prerequisites
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **System** tab.
2. Mark the checkbox **CCTV keyboard**.
3. Select a value for the button delay in the field **button delay**.
4. Click **Apply**.
   ➔ The setting will be saved.

Configuring the address book

Opening the address book

Prerequisites
- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.

Opening the address book

You have two options for opening the address book:
- Click the **Connect** button in the toolbar.
  ➔ The **SISTORE RemoteView address book** dialog box is opened.

or
- Select **Connect** from the **File** menu.
  ➔ The **SISTORE RemoteView address book** dialog box is opened.

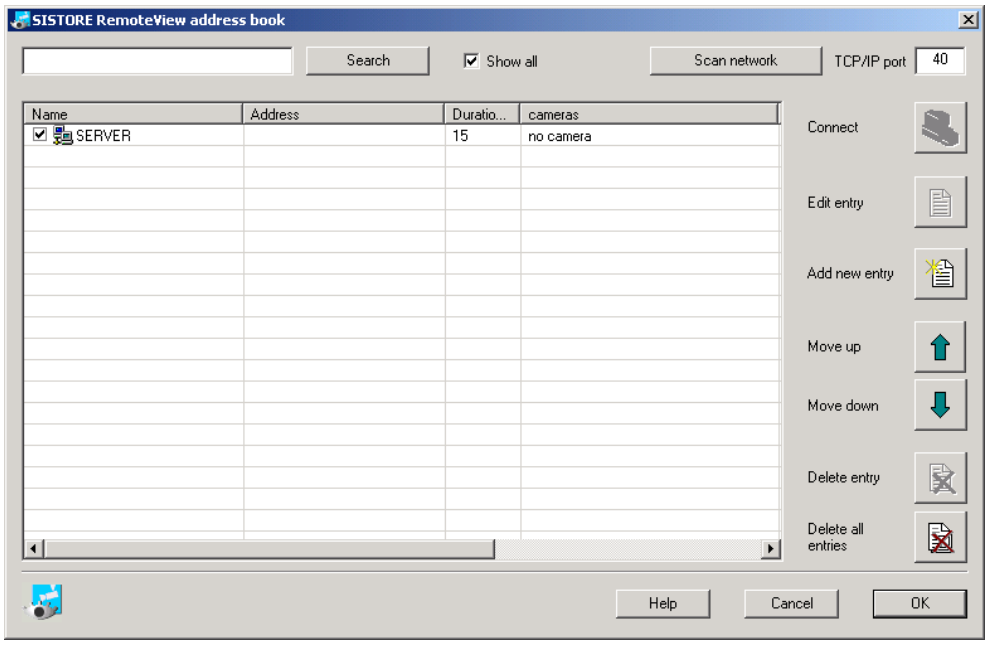


Fig. 137 SISTORE RemoteView address book

Show all

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

Mark the checkbox **Show all**.

➔ The fields **Duration** and **Cameras** will be shown.

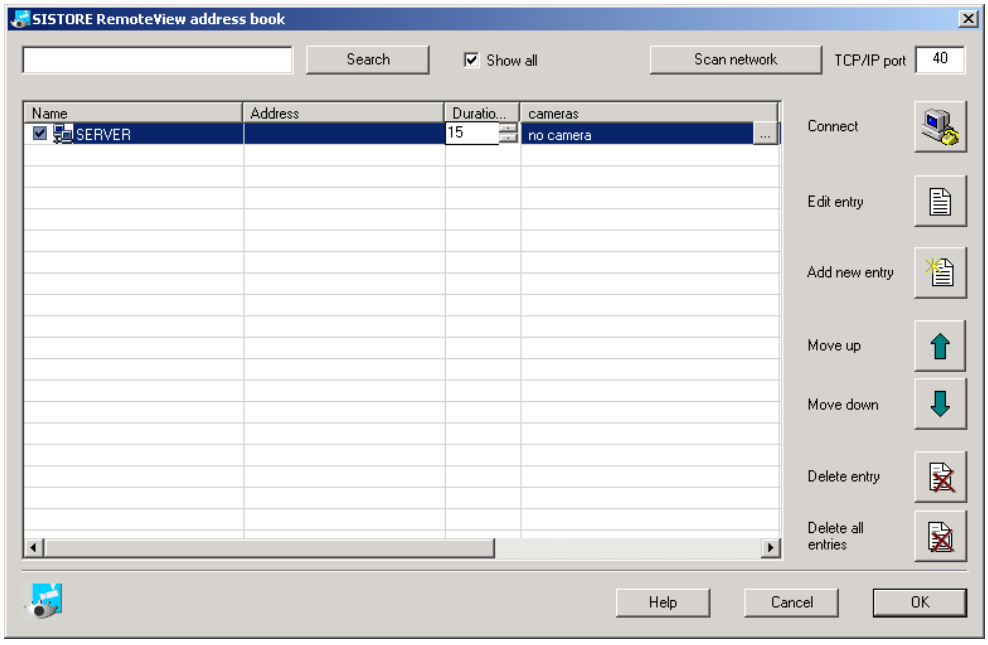


Fig. 138 SISTORE RemoteView address book

NOTE:
The field **Duration** is a function of the virtual guard. Here you can define how long the cameras of the selected connection will be shown when the virtual guard function is enabled.
In the **Name** field you can enable the **virtual guard** function for the particular connection. See Section *"Virtual guard", page 184*.

Adding an entry

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section "Starting SISTORE RemoteView", page 156.
- The address book is opened in the SISTORE RemoteView application software.
  See Section "Opening the address book", page 168.

1. Click the **Add new entry**  button.
➔ The **SISTORE MX address book entry** window will open.

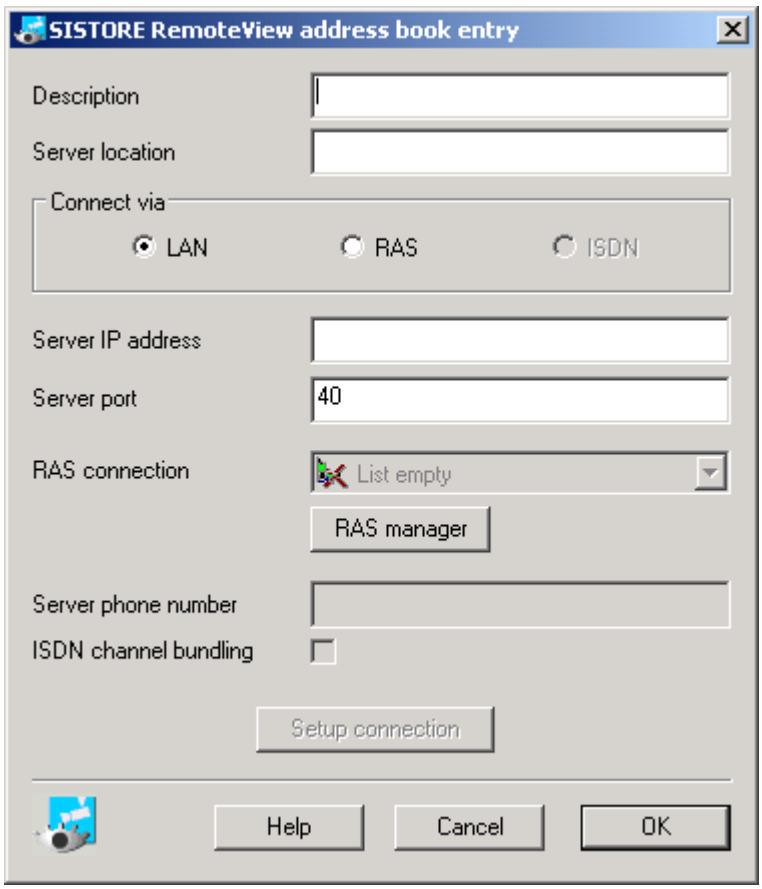


Fig. 139 SISTORE RemoteView address book entry window

2. Fill in the text fields **description**, **server IP address** and **server port**.

Note
Multiple entries can be made in the address book for an IP address. This makes it possible to organize cameras in groups and show them via various connections.
In the text field **server phone number** only numbers and the characters ( ) and - are permitted.
Filling in the field **server location** is optional.

3. Select the desired connection type in the **Connect via** group field. The appropriate conditions must be met for each connection type.

Establishing a connection

1. Click the **Setup connection** button.
➔ A connection will be established.

The progress display for the status of the data transmission is located in the middle section of the status bar. By clicking on this section you can toggle between a view of the progress and the display of the data transmission rate. The progress display is no longer visible when transmission is completed.

Note
The remote access right is necessary for establishing a connection. Remote access also has to be authorised in the configuration mode of SISTORE MX NVS in the "Allow network access" field.

2. Click **OK**.

Editing an entry

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

Click the **Edit entry**  button.

➔ The **SISTORE MX address book entry** window will open. See Section *"Adding an entry", page 170* for information on editing options.

Deleting an entry

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

Deleting individual entries

1. Click in the text field of the entry you want to delete.
2. Click the **Delete entry** button.
3. Confirm the message that follows with **Yes**.
➔ The entry will be deleted.

Deleting all entries

1. Click the **Delete all entries** button.
2. Confirm the message that follows with **Yes**.
➔ All the entries will be deleted.

Sorting entries

Using the buttons **Move up** and **Move down** you can set the sequence of the connections. This is used with the virtual guard and in the list for a quick connection.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

1. Click the **Move up** button.
  ➔ The entry will be moved upward.

2. Click the **Move down** button.
  ➔ The entry will be moved downward.

3. Repeat steps 1 and 2 as often as required if you want to sort multiple entries.

Specifying the camera selection

Using the  button you can define a selection of cameras for which the live images are to be shown after a connection is established.

NOTE:
A maximum of 16 cameras can be displayed simultaneously in the SISTORE RemoteView application software. In the live picture, in contrast to SISTORE MX NVS the titles “REC“, “STOP“ or “DET“ are not available.

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

1. Click on the desired connection.
  ➔ The [...] button will be shown.

2. Click the [...] button.
  ➔ The **Select cameras** window will open.
  ➔ A connection to the selected server will be established in the background.
  ➔ The "Please Wait" message window will be shown.

There are two options for how the cameras are shown in the **Select cameras** window:

- The connection to the server has been established.

The cameras configured on the server are listed by name.

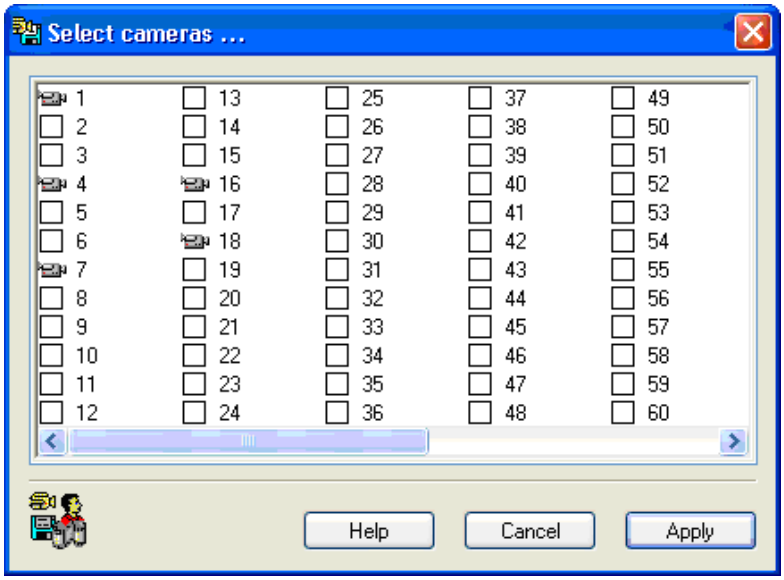


Fig. 140 Select cameras – with server connection

or

- No connection to the server has been established.

A numbered list is shown for selecting the cameras. The camera names are only shown if there is a connection to the server.

Note
In the numbered list, the numbers 1 to 64 are reserved for analog cameras, and the numbers 65 to 96 are reserved for network cameras.

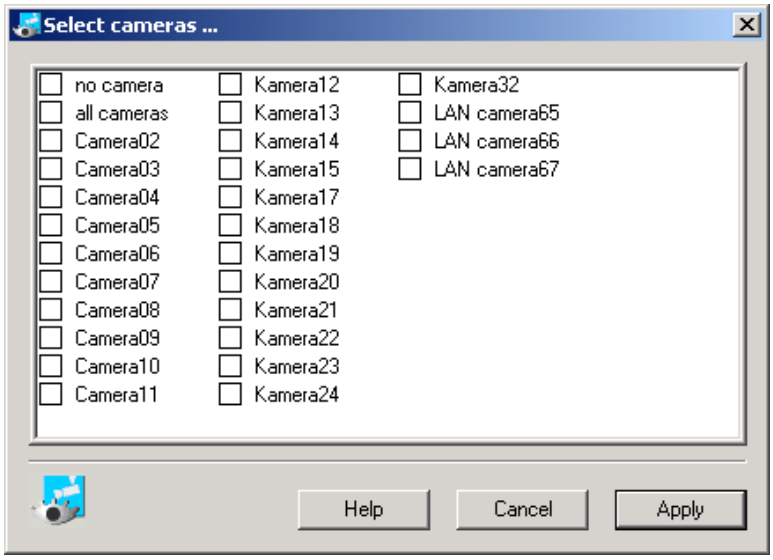


Fig. 141 Select cameras – without server connection

3. Tick the checkbox next to the desired camera.

4. Repeat this step as often as appropriate if you want to select multiple cameras.

NOTE:
The options **no camera** and **all cameras** provide an option for editing the camera list quickly.

5. Click **Apply**.

➔ The setting will be saved.

Searching for SISTORE MX servers

Using the **Search** button you can search for SISTORE MX NVS servers in the address book. Using the **Scan network** button you can search the local network for a SISTORE MX NVS server.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The address book is opened in the SISTORE RemoteView application software.
  See Section *"Opening the address book", page 168*.

There are two possible ways to search for a SISTORE MX NVS server:

1. Click the **Search** button.
   ➔ The address book will be searched for SISTORE MX NVS servers.
   ➔ All existing SISTORE MX NVS servers on the network will be displayed.
   or
2. Enter the port in the **TCP/IP port** text field.

NOTE:
The search is performed only on a specified port. If there are SISTORE MX NVS servers in the local network with different ports, a search will have to be made for each port. This function is currently available only for class C networks: yyy.yyy.yyy.xxx (where yyy entries are fixed, xxx is variable).

3. Click the **Scan network** button.
4. Confirm the message that follows with **Yes**.
   ➔ The local network will be searched for SISTORE MX NVS servers.
   ➔ All SISTORE MX NVS servers that are not yet listed in the address book will be entered there automatically.

NOTE:
Due to limitations of the operating system Windows XP Service Pack 2 the **scan network** function may take several minutes.

Map configuration

Opening and closing the map

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.

1. Click the **map display** button  or select the **map** option from the **View** menu.
   ➔ The map will open or close.

NOTE:
The map can also be shown without a connection to a server. See Section *"Selecting the map view", page 178* for further information.

Importing a map

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.
- There must be a connection to the server.

Click the **Import** button.

➔ The **Open** dialog will appear.

1. Select the map to import.
2. Click **Open**.

   ➔ The map will be imported.

NOTE:
Changes made to the configuration of the SISTORE MX NVS map must be entered manually afterward in the map configuration of SISTORE MX RemoteView. Remote configuration of the map on the server is not possible!
Changes made to the configuration of the SISTORE RemoteView map must be entered manually afterward in the map configuration of SISTORE MX NVS. Remote configuration of the map on the server is not possible!

Exporting a map

Prerequisites

- The SISTORE MX NVS application software is started.
  See Section *„Starting the SISTORE MX NVS application software", page 12*.
- The SISTORE MX NVS application software is in display mode.
- The SISTORE RemoteView application software is started.
  See Section 0 for further information.
- The SISTORE RemoteView application software is in configuration mode.

1. Click on the map to export in the map list.
2. Click the **Export** button  .

   ➔ The **Save As...** dialog will appear.
3. Select the directory in which to save the map as a ***.map file**.

NOTE:
You can save the map as a ***.map file** on an external data medium or locally in the **map directory** on the RemoteView computer, for example:
C:\...\SISTORE MX REMOTEVIEW\Map.

4. Enter a name in the **File name** field.
5. Click **Save**.

   – The **Save As...** dialog will close.
6. Click **Apply**.

   ➔ The map will be saved.

NOTE:
Changes made to the configuration of the SISTORE MX NVS map must be entered manually afterward in the map configuration of SISTORE MX RemoteView. Remote configuration of the map on the server is not possible!
Changes made to the configuration of the SISTORE RemoteView map must be entered manually afterward in the map configuration of SISTORE MX NVS. Remote configuration of the map on the server is not possible!

Setting the display area for video images

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The RemoteView client is connected to at least 1 server.

Select the desired image arrangement from the **View** menu.

Menu option	**Function**
Auto matrix	Divides the display area automatically.
1 – 36 cameras	Depending on the number of cameras configured, up to 36 camera images can be shown simultaneously.
Event view	The event view area will open.
Map	The map will open.
Fewer cameras	The number of cameras shown will be reduced.
More cameras	The number of cameras shown will be increased.
Full screen	The display area will be shown in full screen mode.
Status bar visible	The status bar will be shown.
System information visible	The system information will be shown.

Configuring the map

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

1. Select the **Map** tab.

➔ The following window will open:

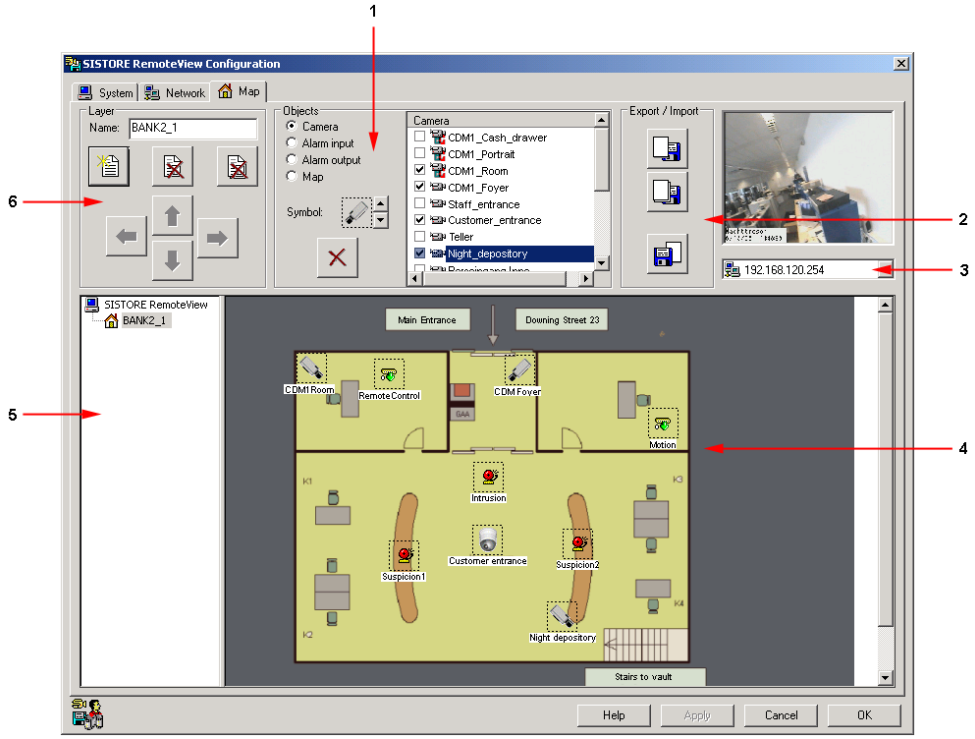


Fig. 142 SISTORE RemoteView – configuration of the map

1	**Objects** group field
2	**Export / Import** group field
3	**Server connection** selection list This dropdown list shows all addresses from the address book. A connection to a server is made using the selection list. Afterward the objects available on the server will be shown in the selection list. These are available for the configuration of the SISTORE MX NVS RemoteView map.
4	Map display window The selected map with the set objects will be shown in the display window. The graphic of the selected map is not scaled. For a screen resolution of 1280 x 1024 pixels it is recommended that maps not exceed 800 x 600 pixels.
5	Map list The map list shows all active maps in their hierarchy. A maximum of two levels of hierarchy can be configured.
6	**Layer** group field

Selecting the map view

View of the map without connection to a server

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section "Starting SISTORE RemoteView", *page 156*.
- There is no connection to a server.

Click the map display button  in the toolbar.

➔ The following view of the map will appear:

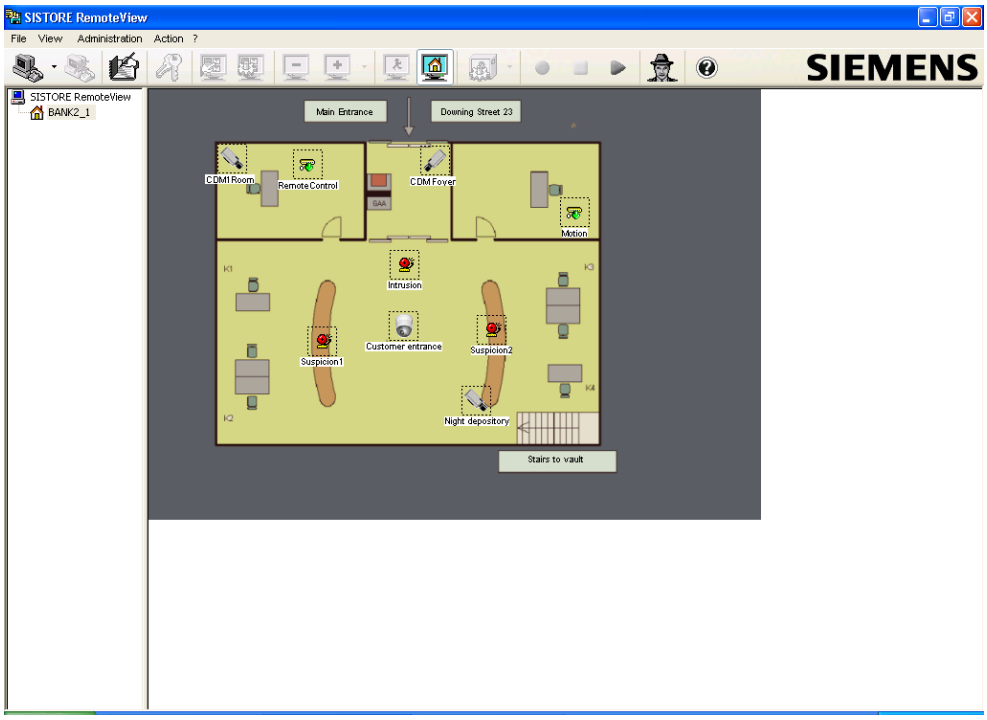


Fig. 143 SISTORE RemoteView map without server connection

View of the map with connection to a server

1. Select "Connect" from the file menu or click the corresponding button in the toolbar.
➔ The address book will open.

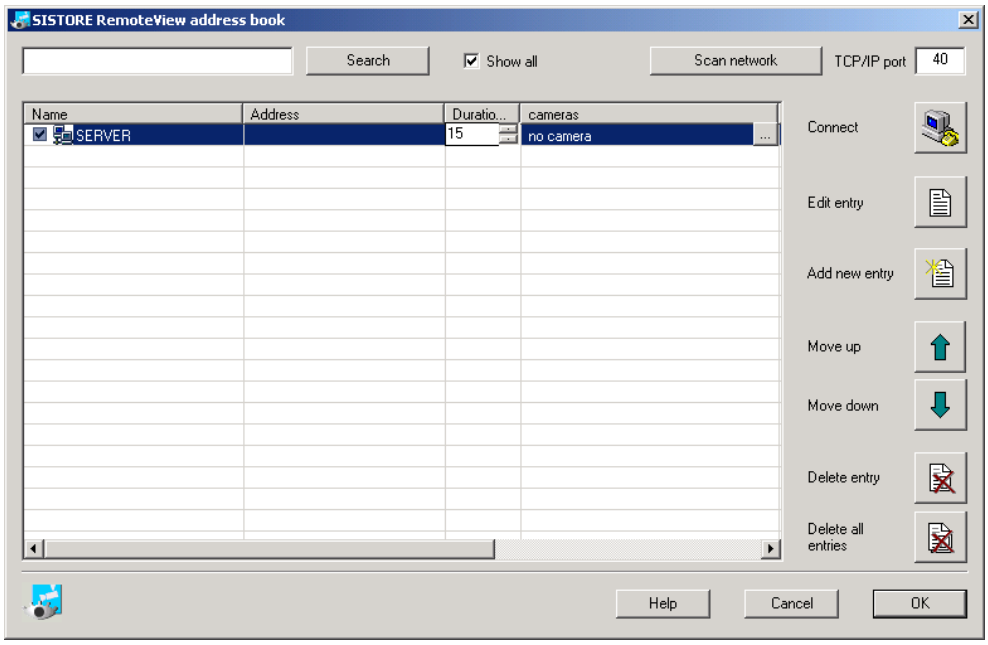


Fig. 144 SISTORE RemoteView address book

2. Select a connection.
3. Click the Connect button.
➔ The following window will open:

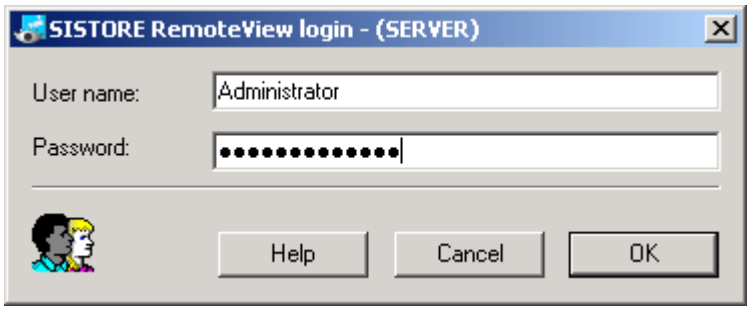


Fig. 145 SISTORE RemoteView login dialog

4. Enter your user name and password.
5. Click **OK**.
➔ The connection to the server has been established.

Note
No more than one connection to a server can be made at a given time.

6. Click the map display button in the toolbar.
➔ The following view of the map will appear:

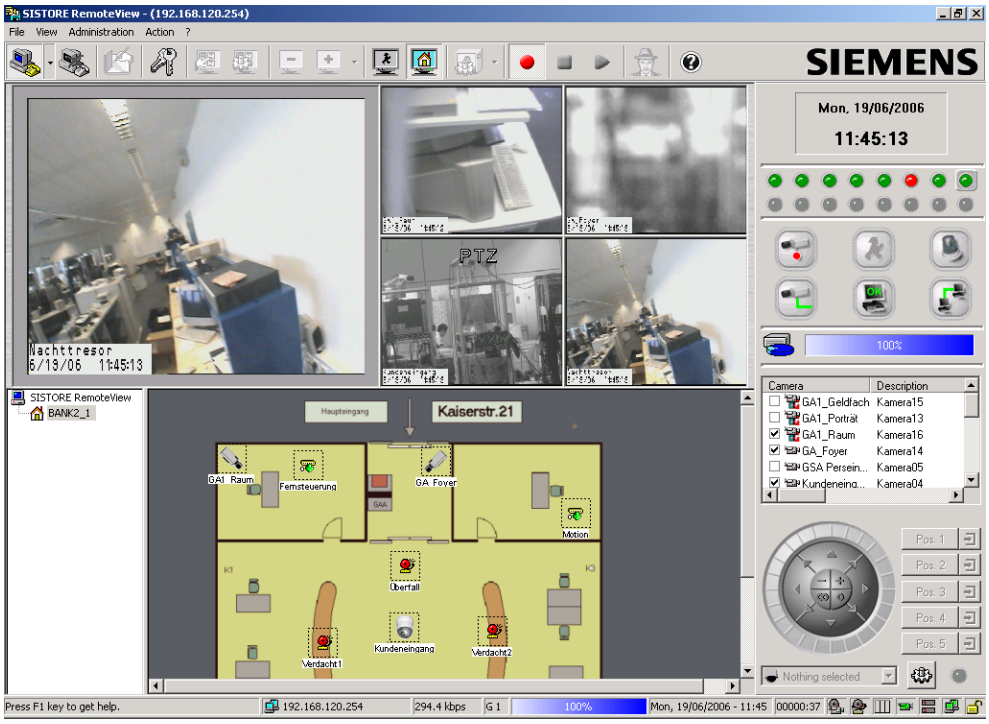


Fig. 146 SISTORE RemoteView map with server connection

If you move the mouse pointer over an object in this view, the following object information will be shown in an information field:

- Object name and description
- Server IP address and port

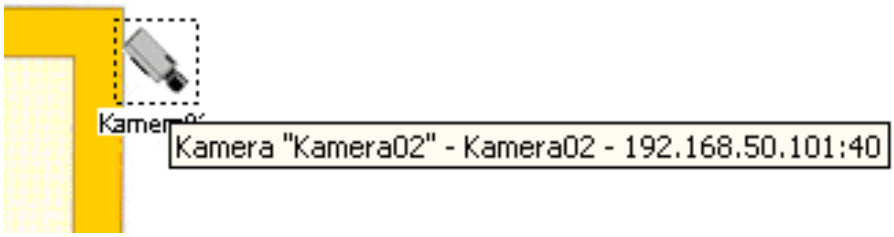


Fig. 147 Object information on the SISTORE MX NVS RemoteView map

Note
If there is no connection to the server only part of the information field is shown.

Configuring SISTORE MX via SISTORE RemoteView

Configuring SISTORE MX via SISTORE RemoteView

SISTORE RemoteView can be used for remote configuration of a SISTORE MX NVS server. This function corresponds to the function for importing a configuration, except that a configuration file is sent by remote data transfer to the server.

NOTE:
Transmission errors should be detected by a checksum contained by the configuration file. If the checksum is incorrect, the configuration will not be imported.

For changes to the configuration the same dialogs are used as in the SISTORE MX NVS application software.

The functions of the dialogs and dialog elements are therefore the same.
The following limitations apply in this regard:

- It is not possible to display motion detection.
- Recording media (hard drive partitions) cannot be changed.
- A database directory cannot be specified.
- The language version cannot be changed.
- The option "Always in foreground" cannot be changed.
- The option "On-screen keyboard" cannot be changed.
- Network parameters cannot be changed.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159* for further information.

You have two options to configure a SISTORE MX NVS server:

- Option A: online, i.e. transmission of the configuration, changing of the configuration, loading of the configuration, starting of the configuration on the server.
  or
- Option B: offline, i.e. an existing configuration is edited without a connection to the server, then a connection is established and the configuration is sent to the server.

Procedure for Option A

1. Select **Configuration...** from the **Administration** menu.

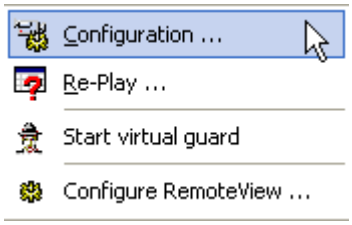


Fig. 148 SISTORE RemoteView – configuration path for the server

2. Confirm the message that follows with **Yes**.

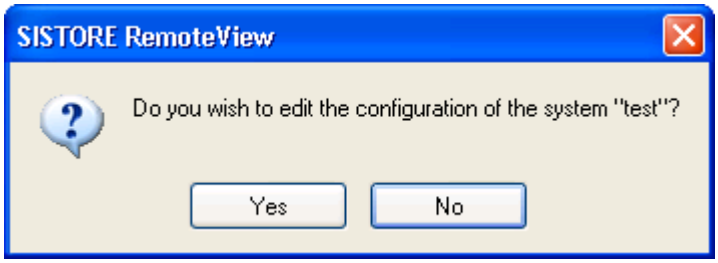


Fig. 149 SISTORE RemoteView – configuration option for the server

➔ The configuration file will be transferred from the server and saved in the download directory.
➔ SISTORE RemoteView will switch to configuration mode.
➔ The file will be opened automatically.
3. Change the configuration.
4. Click **Apply**.
5. Confirm the message that follows with **Yes**.

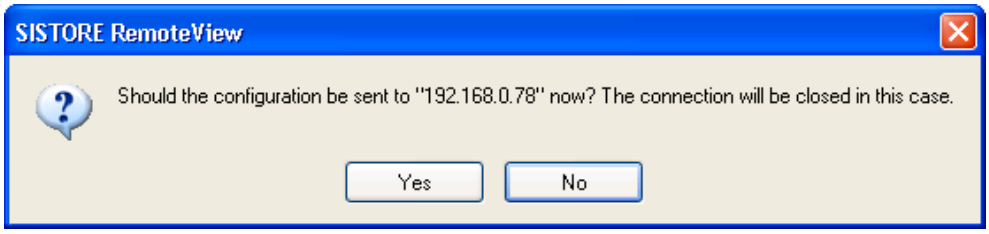


Fig. 150 SISTORE RemoteView – sending the server configuration

➔ The transmission will be performed.
➔ After receiving the configuration, the server will import and apply it.

NOTE:
Recording will be stopped for a few seconds. The connection to RemoteView will be terminated.

6. Check whether the server is recording again and everything is running properly.
➔ The transfer of a new configuration is recorded as information in the server's logbook. The logbook will also indicate whether the server has accepted and applied the new configuration.

NOTE:
If a configuration contains more cameras than are available on the recording system, only the first cameras of the configuration will be applied. All further cameras will be ignored.
This also applies for objects that are in a configuration but are not physically present in the recording system.
Settings which cannot be configured remotely, such as recording drives, network settings or deleting or adding LAN cameras, will not be applied by the server from the new configuration. For these parameters the existing settings will continue to be used. This is to avoid malfunctions.

Server crash due to remote configuration
1. The built-in Watchdog card will initiate a restart of the computer.
2. The SISTORE MX NVS unit will restart automatically.
➔ The malfunction will possibly be corrected by the restart.

Malfunction due to remote configuration
If the server can be reached by remote data transfer, it can be restarted by the SISTORE RemoteView application software.

1. Select **Restart system** from the **Action** menu.

Procedure for Option B

1. Select **Receive configuration** from the **File** menu.

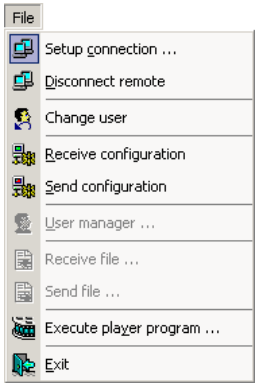


Fig. 151 SISTORE RemoteView: File menu

➔ The SISTORE RemoteView application software receives a copy of the configuration from the SISTORE MX NVS server

➔ The configuration can be edited without a remote data transfer connection.

➔ Select **Send configuration** from the **File** menu.

➔ You can select a file and send it to the SISTORE MX NVS server.

Defining the detection area (mask)

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.

You can generate and change the detection area of cameras via remote configuration. The drawing of the detection area is performed as in the SISTORE MX NVS application software. See Section *"Defining the detection area (mask)", page 47*.

NOTE:
The **pencil** drawing tool is not available.
If the camera is not in operation, the mask will be shown in a gray window. You can still draw the mask, but this leads to a very inexact result.

Setting image quality

- The SISTORE RemoteView application software is started.
  See Section 0 for further information.
- The SISTORE RemoteView application software is in configuration mode.

Quality of the video images

1. Click the **View** menu in playback mode.

2. Select the desired image quality.

NOTE:
If you have not selected an image quality, the default quality (LAN) of the system will be used.
There is no feedback from the system regarding detected motions (graphics, audio signals, signal lamp).

Changing user data

Prerequisites
- The SISTORE RemoteView application software is started.
  See Section "Starting SISTORE RemoteView", *page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section "Configuration mode", *page 15*.
- You have the user rights *configuration*, *remote access* and *user administration*.

You can change user data via remote configuration. However, for security reasons, this is only possible with Option A (online).
See Section "Configuring SISTORE MX via SISTORE RemoteView", *page 181*.
The procedure is similar to that with the SISTORE MX NVS server. The changed user data are transmitted to the SISTORE MX NVS server when the user administration dialogs are closed.

Virtual guard

Starting and ending the virtual guard

Starting the virtual guard
You have several options to start the virtual guard:
With the mouse:
- Click the  button in the toolbar.

or
- Select **Start virtual guard** in the **Administration** menu.

or
- Using the command line:
  Enter the following command in the command line: -vguard
  or
  Enter the following command in the command line: SistoreRemoteView.exe –vguard

NOTE:
While the virtual guard rounds are running in SISTORE RemoteView it is not possible to make an alarm connection to that RemoteView.

Ending the virtual guard
You have two options to end the virtual guard:
1. Click the  button in the toolbar.
or
1. Click the **Administration** menu in the toolbar.
2. Select the menu option **End virtual guard**.

Logging in to the server
Server login takes place automatically. However, the user rights for this automatic login are very limited. Playback and configuration are not possible.
If you want additional rights:
1. Click **Login**  .
➔ The **SISTORE RemoteView login** dialog will open.
2. Enter another user name in the **User name** text field.
3. Enter the appropriate password in the **Password** field.

NOTE:
The virtual guard will be interrupted, i.e. there is no automatic disconnection and reconnection if the user performs such an action.

Configuring the virtual guard

The virtual guard performs the following tasks:

- Establish connections to various recording systems in a specified sequence automatically with time control
- Show specified cameras
- Terminate the connections after a specified time

The connection data are taken from the address book entries.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section *"Starting SISTORE RemoteView", page 156*.
- The SISTORE RemoteView application software is in configuration mode.
  See Section *"Opening configuration mode", page 159*.
- The address book contains connection entries.
  See Section *"Configuring the address book", page 168*.

1. Select **Connect** from the **File** menu.
➔ The **SISTORE RemoteView address book** window will open.

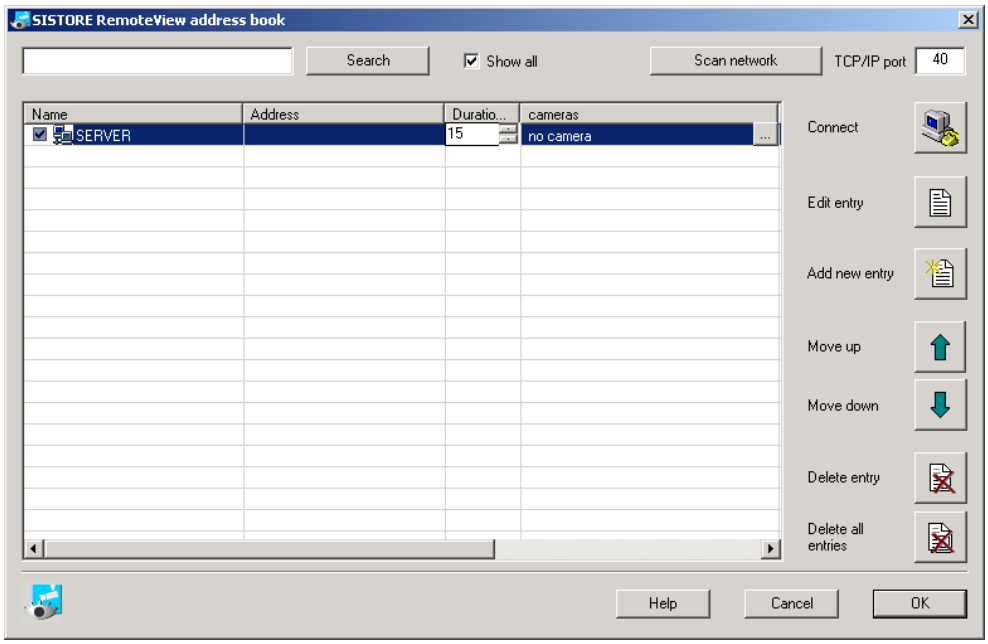


Fig. 152 SISTORE RemoteView address book

2. Mark the checkbox **Show all**.
➔ The fields **Duration** and **Cameras** will be shown.
3. Click the **Add new entry** button.
➔ The **address book entry** window will open.

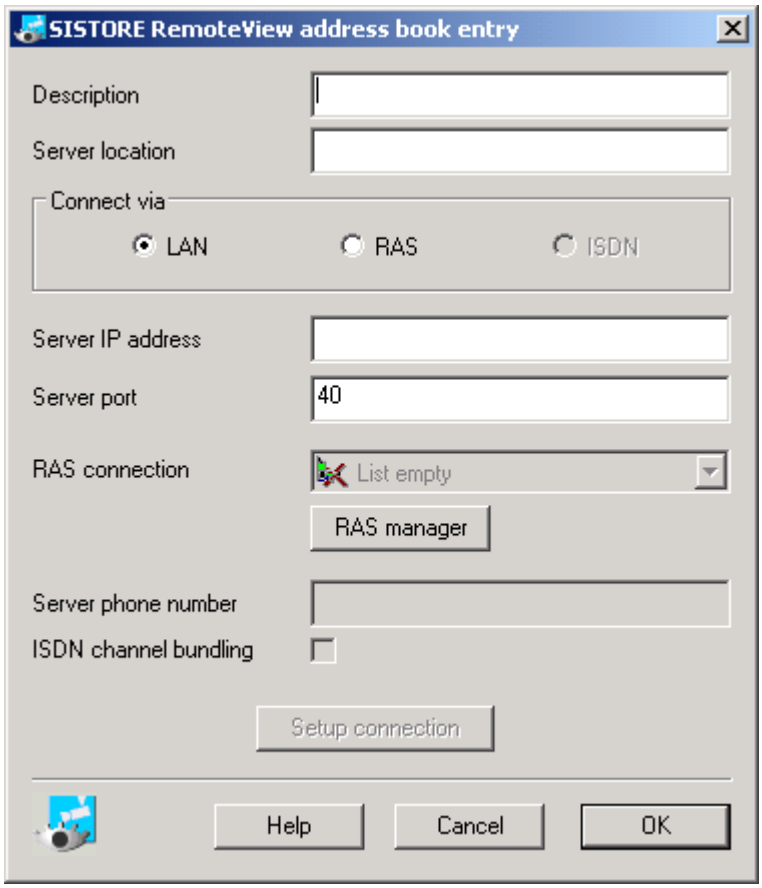


Fig. 153 SISTORE RemoteView address book entry window

4. Select one or more connections in the **address book**.
5. Click **OK**.
   ➔ The address book will close.
   ➔ The selected connections will be copied to the guard function and be displayed in the configuration dialog of the virtual guard.
6. Set a connection duration in seconds for each connection.
7. Select the cameras for which the live images are to be shown after a connection is established. See Section *"Specifying the camera selection", page 172*.
8. Change the sequence of the connections with the **Move up** and **Move down** buttons.

NOTE:
The button **Delete all entries** deletes only the entries of the virtual guard. No entries from the address book are deleted.

Transmit and receive files

Using the **file transfer** function you can transfer files from the server to SISTORE RemoteView and vice versa.

Prerequisites

- The SISTORE RemoteView application software is started.
  See Section 0 for further information.
- There is a connection to a version 2.60 server.

Sending a file

1. Select the menu option **File** -> **Send file...**.
➔ The **file transfer** window will appear.

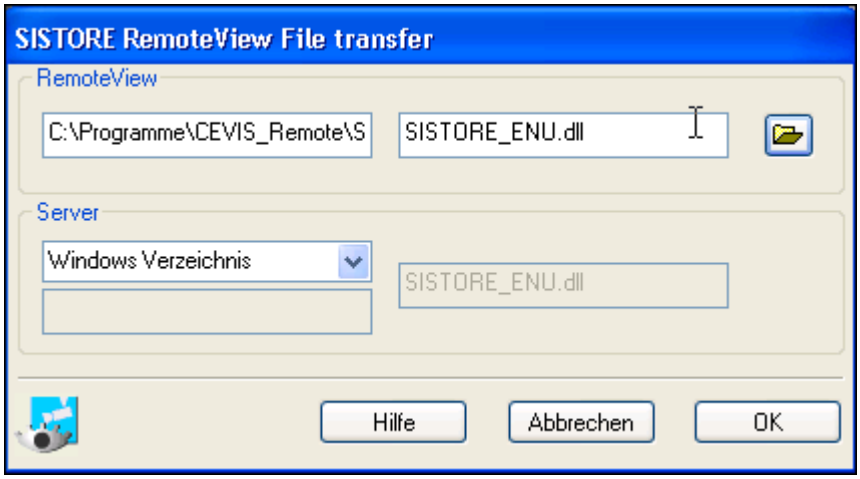


Fig. 154 *SISTORE RemoteView file transfer* window

2. In the **RemoteView** group field, select the file you want to send.

3. Select the target directory in the **Server** group field.

4. Enter the file name in the text field in the **Server** group field.

NOTE:
The name of the target file must match the name of the source file.
File transfer is only possible if the selected directory exists on the server and the file to transfer is not opened. Thus the file **SISTORE.exe** cannot be transferred, for example.

5. Click **OK**.

Receiving a file

1. Select the menu option **File** -> **Receive file...**.
➔ The **file transfer** window will appear.

2. In the **RemoteView** group field, select the file you want to receive.

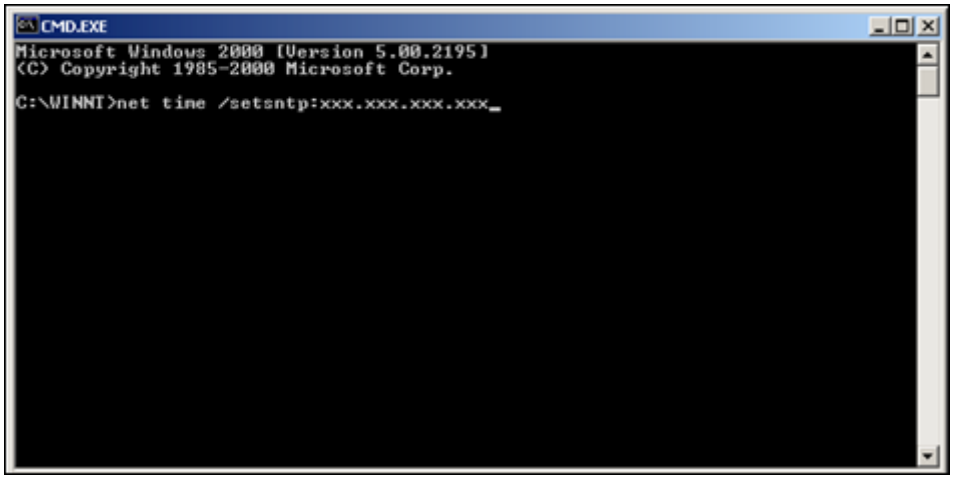
3. Select the source directory in the **Server** group field.
Click **OK**.

Configuration of Windows system settings

Synchronizing the time with an NTP server

An NTP server always provides the current time. This is a cyclical synchronization method, i.e. the time is updated at regular intervals. In order to synchronize the time of the SISTORE MX NVS or client PC with an NTP server, the IP address of the NTP server must be specified.

1. In the Windows Start menu, select **Programs** -> **Accessories** -> **Command Prompt**.
➔ The **Command Prompt** window will open.



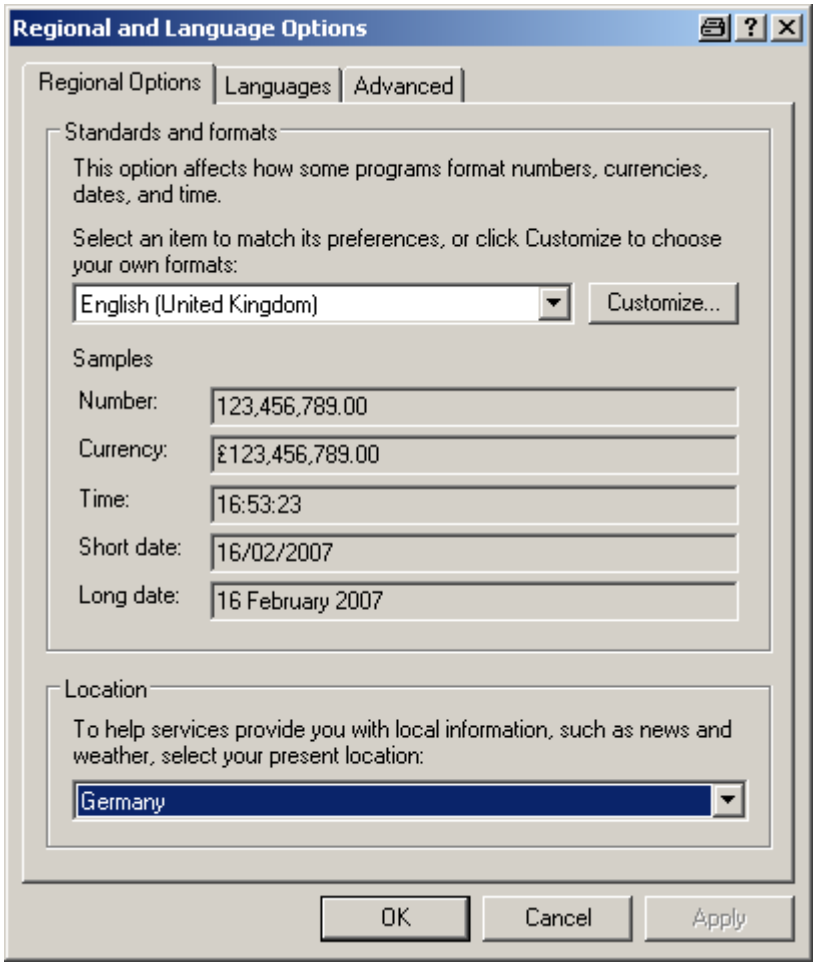
1. Enter the following command in the command prompt window:
net time /setsntp:xxx.xxx.xxx.xxx (in place of "xxx.xxx.xxx.xxx" enter the IP address of the NTP server.)
2. Restart the SISTORE MX NVS or enter the following command at the input prompt of the SISTORE MX NVS:
net stop w32time
net start w32time

NOTE:
The IP address of a permitted server can be found on the Internet, or contact your system administrator.

Changing the language version under Windows XP

1. Click the Windows **Start** menu.
2. Select **Settings** -> **Control Panel**.
   ➔ The **Control Panel** window will open.

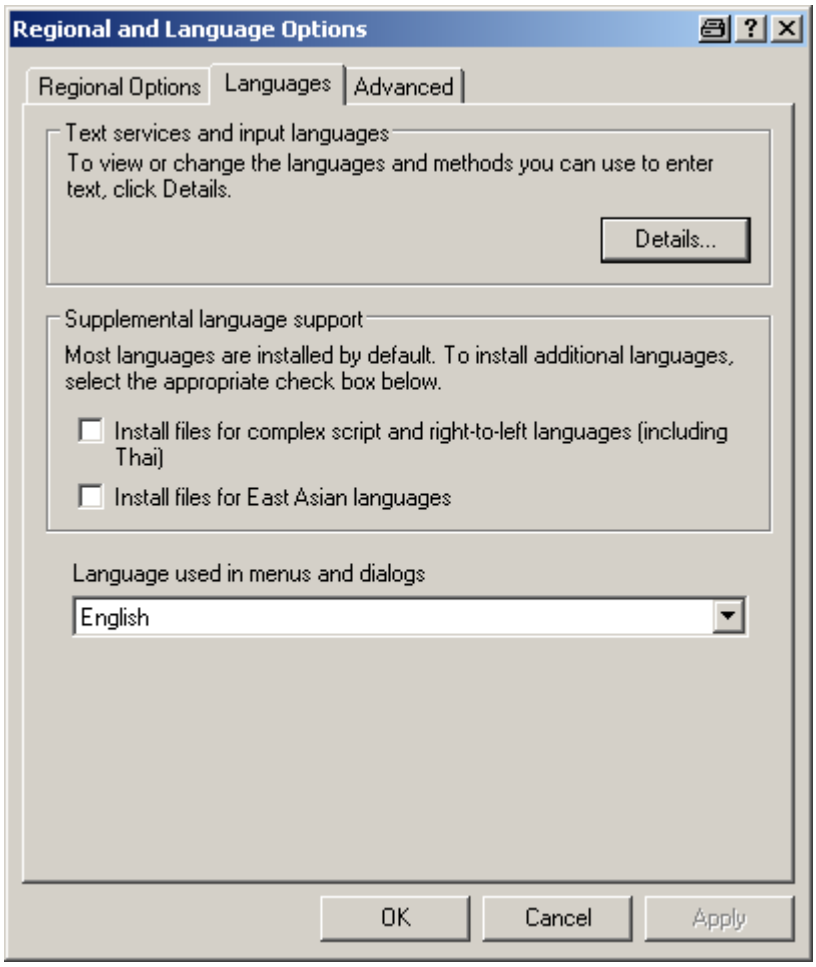
3. Click **Date**, **Time**, **Regional and Language Options**.
   ➔ The **Date**, **Time**, **Regional and Language Options** window will open.
4. Click **Regional and Language Options**.
   ➔ The **Regional and Language Options** window will open.



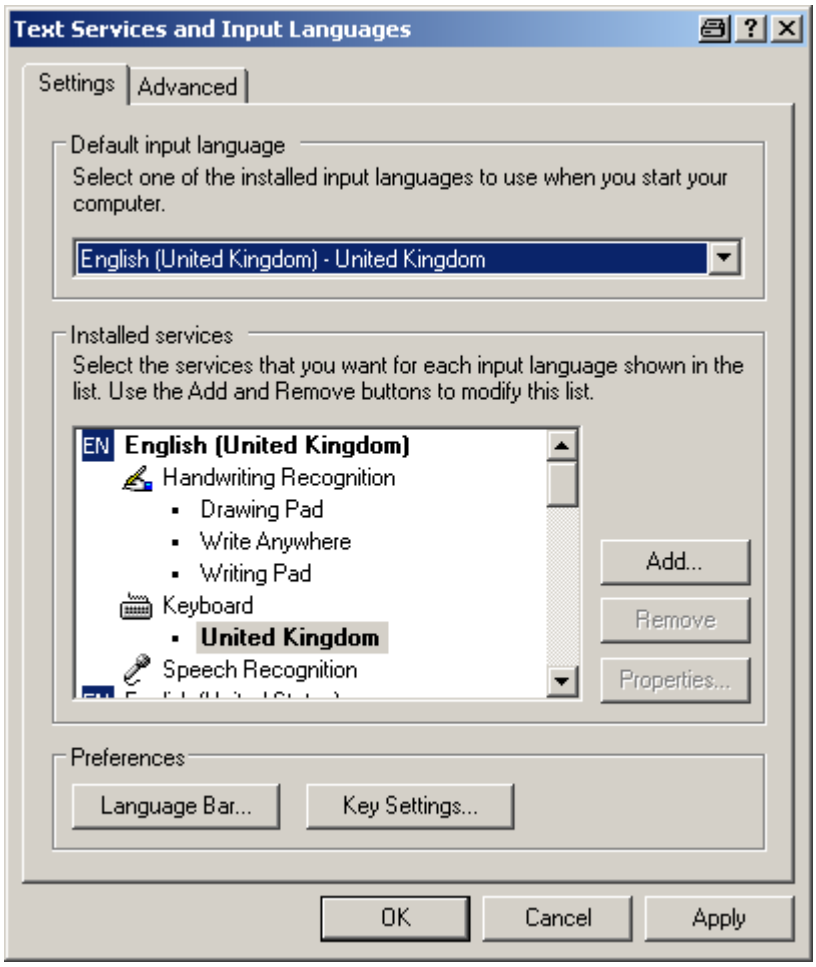
5. Select the **Regional Options** tab.
6. Make the following settings on the tab:

Standards and formats	German (Germany)
Location	Germany

7. Click **Apply**.
8. Select the **Languages** tab.



9. Click **Details...**.
➔ The following window will open:



10. Make the following settings on the **Settings** tab:

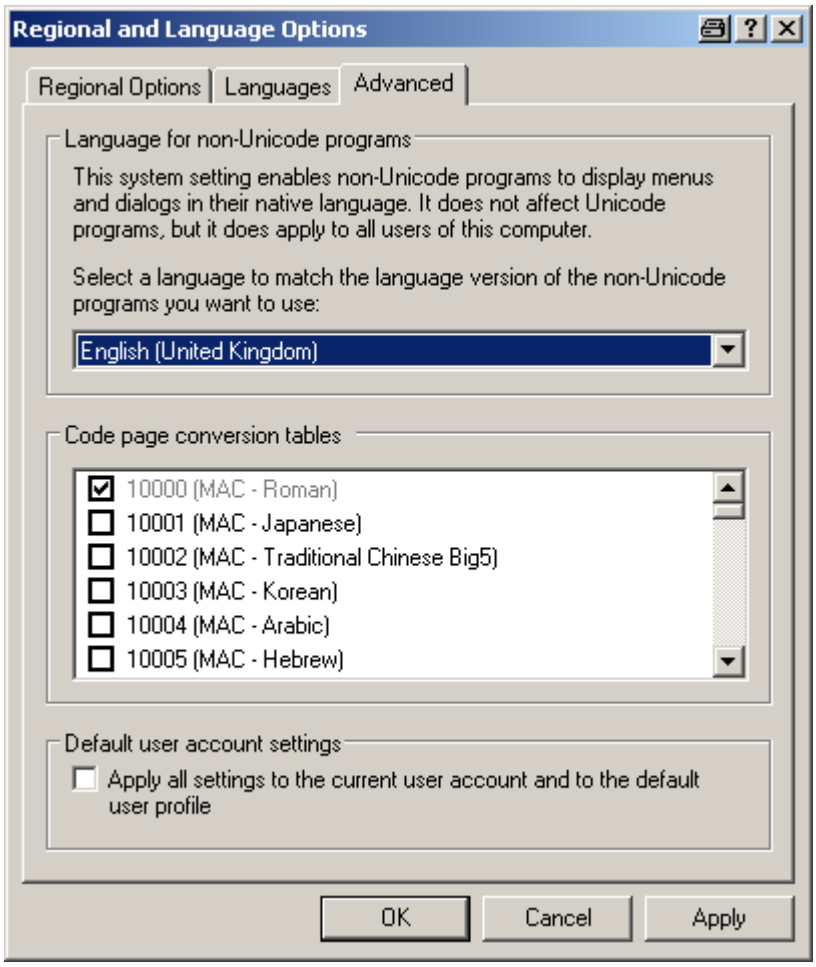
Default input language	German (Germany) - German

11. Click **Apply**.

12. Click **OK**.

➔ The dialog will close.

13. Select the **Advanced** tab.



14. Make the following settings on the **Advanced** tab:

Language for non-Unicode programs	German (Germany)

15. Click **Apply**.

16. Click **OK**.

➔ The system will restart.

Setting the date and time to the German format

Set the date and time to the German format.

1. Click the Windows **Start** menu.

2. Select **Settings** -> **Control Panel**.

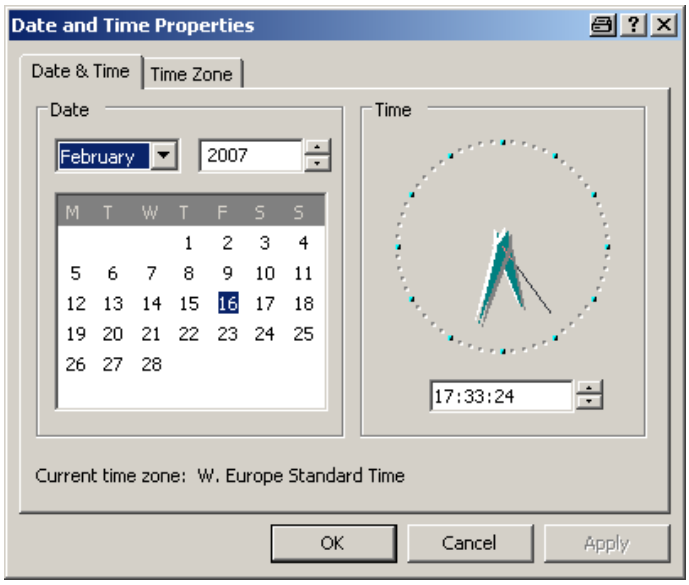
➔ The **Control Panel** window will open.

3. Click **Date**, **Time**, **Regional and Language Options**.

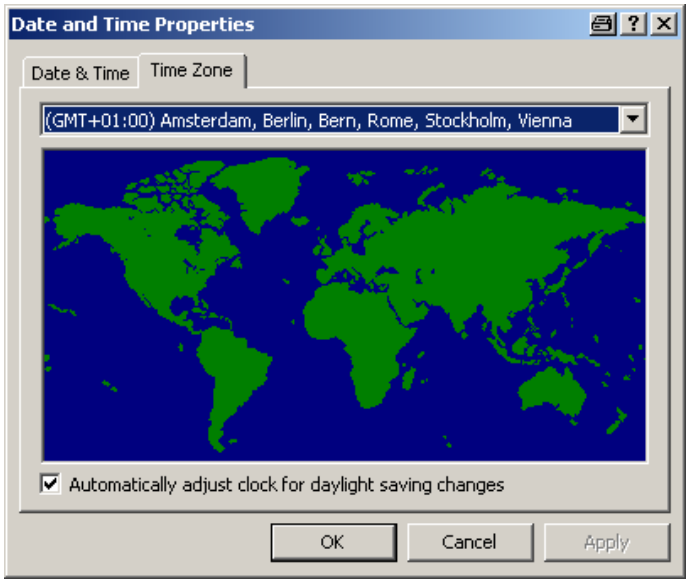
➔ The **Date**, **Time**, **Regional and Language Options** window will open.

4. Click **Date and Time**.

➔ The following window will open:



5. Select the **Time Zone** tab.



6. Select the desired time zone.

7. Mark the checkbox **Automatically adjust clock for daylight saving changes**.

8. Click **Apply**.

9. Click the **OK** button.

Video formats supported

The image files created by SISTORE MX NVS have the file extension ".k26" or ".avi", depending on the setting. These are files in a format similar to AVI, though the k26 files can only be viewed with the SISTORE Player. The AVI files can be played back with any ordinary media player if an appropriate CODEC is installed in the operating system.
The recordings have a resolution of 352 x 288 pixels (for normal picture quality) and 704 x 288 pixels (for higher picture quality).
For more information, see Section 0 Selecting video resolution.

Index

A

B

C

D

E

F

G

H

I

K

L

M

N

O

P

R

S

T

U

V

W

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