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1 Introduction

1.1 About this Manual

This manual is intended for persons responsible for configuring and managing a CCTV system. This manual describes how to use the Configuration Manager program. This document assumes that the reader is familiar with both the CCTV system and the other programs that are integrated into the system.

1.2 Conventions in this Document

In this document, the following symbols and notations are used to draw attention to special situations:

**CAUTION!**
Security instructions where non-compliance can result in loss of data are marked with this symbol.

**NOTICE!**
This symbol indicates special features and provides tips and information for easier, more convenient use of the software.

Terms that you can find in the program, such as menu options or commands, are written in **bold**.
1.3 Additional Documentation

Once Configuration Manager has been installed, this document is also available as online Help within the program. Depending on the configuration of your system, the following documentation may also be useful:

- **Camera documentation**
  The manufacturer will provide you with separate documentation for each camera.

- **VideoJet, VIP, etc.**
  Bosch will provide you with documentation for each device. This explains the typical device settings.

- **BVC, Monitor Wall, VRM, IVA, IVMD and other BVIP software**
  Bosch will provide you with separate documentation for each of these software products.
2 System Overview

In the Configuration Manager program, you have access to all devices and software components in your CCTV network. The program offers a configuration wizard for quick basic configuration of devices. However, you can also carry out the configuration via the normal user interface. There are two options here for configuring the devices or checking the current settings:

– Basic Mode
  Configuration Manager is started in this view
– Advanced Mode
  This view is activated via the main menu

In Basic Mode, only the most important parameters are displayed, on a small number of tabs. This allows you to change the basic settings with just a few entries and then put the device into operation.

Advanced Mode is recommended for expert users or system support personnel. You can access all device parameters in this mode. Settings that affect the fundamental functionality of the device (such as firmware updates) can only be altered in Advanced Mode.
2.1 Functions

Configuration Manager provides the following functions (the availability of these depends on the environment in which the program is used):

- **Network Scan**
  This function automatically detects all compatible devices present in a network, such as cameras or video senders (e.g. VIP X1600), video receivers (e.g. VIP XD) or VRM.

- **Device information and configuration**
  Comparable with the Web browser view, Configuration Manager shows the current configuration for each device and allows you to change the settings.

- **Device system integration**
  You use the Device allocator in Configuration Manager to make devices accessible for use with Video Client.

- **Configuration Wizard**
  A Configuration Wizard helps you to configure all devices for basic operation in just a few steps, even for extensive systems.

- **Basic configuration for BVIP programs**
  For certain BVIP programs (Bosch Video over IP), basic system settings are made via Configuration Manager.

- **Multiple configuration**
  You can use Configuration Manager to make individual settings for multiple devices simultaneously (e.g. time settings), allowing you to configure large systems more quickly.

- **Simpler access to devices**
  The **Screenshot Scan** function gives an overview of all the cameras that provide video data. The screenshots can be used to identify the camera and device, and give you direct access to said camera or device.
- **Table View**
  This allows you to compile specific parameter settings for selected devices. This provides you with a quick overview of the settings that are of interest to you and allows you to export this information for archiving at the push of a button.

- **Device Health Monitor**
  This provides you with a quick overview of the status of selected devices, such as the encoder load and type of network connection.

- **Work Offline**
  Configuration Manager allows you to make settings for selected devices offline. When in operation, the configuration data of the devices is transferred to your computer where it can be edited offline. This functionality can also be used to back up the configuration data of the devices locally. If, for example, a device needs to be replaced by another of the same type, this data can then be transferred to the new device. This functionality is extended with the **Replacement** command. Replaced devices are detected and automatic configuration is possible thanks to the saved data.

- **System emulation**
  The complete system configuration can be saved as a system image and emulated using a different Configuration Manager application. This function helps you to isolate problems without having to access the actual system.

- **Access to license management**
  Firmware modules requiring a license, such as IVA (Intelligent Video Analysis), are set up using Configuration Manager.
## 3 Installation and Starting

Configuration Manager is automatically part of the installation for all BVIP programs that require it for configuration purposes. It can also be found on every product CD for BVIP devices as you can also use it independently of other BVIP software, for example, to simplify the configuration in a CCTV system with many similar video senders.

### 3.1 System Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Requirement Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating system</td>
<td>Windows XP Home</td>
</tr>
<tr>
<td></td>
<td>Windows XP Professional</td>
</tr>
<tr>
<td></td>
<td>Windows Vista</td>
</tr>
<tr>
<td></td>
<td>Windows 7</td>
</tr>
<tr>
<td>CPU</td>
<td>Dual Core, 3.0 GHz or faster</td>
</tr>
<tr>
<td>RAM</td>
<td>2 GB or more</td>
</tr>
<tr>
<td>Graphics card</td>
<td>NVIDIA Quadro FX 1500 PCIe</td>
</tr>
<tr>
<td></td>
<td>NVIDIA Quadro FX 1700 PCIe</td>
</tr>
<tr>
<td></td>
<td>NVIDIA Quadro FX 1800 PCIe</td>
</tr>
<tr>
<td></td>
<td>NVIDIA Quadro FX 3800 PCIe</td>
</tr>
<tr>
<td></td>
<td>NVIDIA Quadro FX 4600 PCIe</td>
</tr>
<tr>
<td></td>
<td>NVIDIA Quadro FX 4800 PCIe</td>
</tr>
<tr>
<td></td>
<td>ATI FireGL V3300 PCIe</td>
</tr>
<tr>
<td></td>
<td>ATI FireGL V5700 PCIe</td>
</tr>
<tr>
<td></td>
<td>ATI FireGL V7200 PCIe</td>
</tr>
<tr>
<td></td>
<td>ATI FireGL V7750 PCIe</td>
</tr>
<tr>
<td></td>
<td>or better</td>
</tr>
<tr>
<td>Sound card</td>
<td>Recommended</td>
</tr>
<tr>
<td>Network adapter</td>
<td>100 Mbps</td>
</tr>
</tbody>
</table>
3.2 Installation

You can install Configuration Manager on as many computers running Microsoft Windows as you wish.

1. Close all other applications before beginning the installation.

2. Insert the installation CD into the computer's CD-ROM drive. The CD runs automatically. If the CD does not run automatically, open the index.html page from the root.

3. Select the required language for the user interface.

4. Click one of the entries under Installation Packages to start installing the relevant installation package. You will be guided through the installation of each individual package.

5. When installing individual packages, several installation processes will run one after the other where necessary. During installation, you will be prompted to select target directories for the programs. It is advisable to accept the defaults.

When selecting components, a description for each one is displayed when you hover the mouse cursor over them.

If individual programs are already installed on your PC, you can exclude these from the installation in the Choose Components dialog box.
3.3 Starting the Program

After successful installation, you will find the following icon on your desktop:

(Double click this icon to start the program. Configuration Manager can also be called up from the Start menu. Several BVIP programs enable you to start Configuration Manager directly within the relevant program. Operation of Configuration Manager varies according to the context in which it is being used. In some cases, it is merely a tool that enables you to configure BVIP devices more conveniently and more comprehensively. For certain BVIP programs and firmware modules, however, Configuration Manager is indispensable, as it is the only way to set these up.

3.4 Deinstallation

If you no longer want to use Configuration Manager on your PC, uninstall the program.

1. Click Start > Settings > Control Panel.
2. Double-click Add or Remove Programs.
3. Select the Bosch Configuration Manager entry.
4. Click Remove.
4 The User Interface

4.1 Overview

1 Main menu
2 Toolbar
   Buttons for quick access to the most important functions
3 Main tabs: Network, Devices, System (and Cameras)
4 Info bar with name, type and IP address of the selected device and processor load indicator for hardware devices
5 Additional functions
6 Status bar
7 View window
   Depending on the main tab selected, this window displays different tabs with configuration options and information.
4.2 **Main Menu**

Below are the lists of commands available in the main menu.

### 4.2.1 File

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Advanced Mode</strong></td>
<td>If this option is activated you have access to all device settings. If this option is deactivated, Configuration Manager is in Basic Mode and only the most important device settings are accessible. The Help information for each tab is displayed directly. This option corresponds to the option of the same name in the Web browser view of the devices.</td>
</tr>
<tr>
<td><strong>Connect to Server...</strong></td>
<td>Connects Configuration Manager to a server. This allows you to set up a server and configure a client/server system.</td>
</tr>
<tr>
<td><strong>Disconnect from Server</strong></td>
<td>The connection between Configuration Manager and a server is broken.</td>
</tr>
<tr>
<td><strong>Work Offline/ Work Online</strong></td>
<td>The settings for selected devices can be made offline while the device remains in operation. For this purpose, the configuration files of the devices are backed up locally on your computer. You can edit the data and send it back to the devices at a later stage.</td>
</tr>
<tr>
<td><strong>Emulate Alien System.../ Abandon Emulation</strong></td>
<td>Imports the system image of an alien Configuration Manager system</td>
</tr>
<tr>
<td><strong>Close</strong></td>
<td>The Configuration Manager program is closed. This also breaks the connection between Configuration Manager and the server.</td>
</tr>
</tbody>
</table>
## 4.2.2 Tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration Wizard...</td>
<td>Starts the wizard for the basic configuration of devices</td>
</tr>
<tr>
<td>Logging...</td>
<td>Displays the <strong>Device Communication Log</strong> dialog box. Here, you can view the RCP+ commands that are transmitted by Configuration Manager when connecting to devices, if you have enabled logging.</td>
</tr>
<tr>
<td>Device Allocator...</td>
<td>Displays the <strong>Device Allocator</strong> dialog box</td>
</tr>
<tr>
<td>Table View...</td>
<td>Displays the <strong>Devices Table View</strong> dialog box</td>
</tr>
<tr>
<td>Screenshot Scan...</td>
<td>Displays a window in which a screenshot for each of the connected cameras is displayed. The popup menu of the screenshots gives you access to the settings relevant for the device. The device can be added to the system.</td>
</tr>
<tr>
<td>Device Health Monitor...</td>
<td>Displays the <strong>Device Health Monitor</strong> dialog box, which provides a quick overview of the status of selected devices</td>
</tr>
<tr>
<td>Save System Image</td>
<td>Saves the image of the current Configuration Manager system for emulation on a different PC</td>
</tr>
<tr>
<td>iqn-Mapper...</td>
<td>Displays the <strong>iqn-Mapper</strong> dialog box, in which you can map replay clients to NetApp iSCSI systems</td>
</tr>
<tr>
<td>Other</td>
<td>Other software components can be started directly. The prerequisite for this is that the relevant program is installed on the same PC.</td>
</tr>
</tbody>
</table>
### 4.2.3 Help

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Help...</td>
<td>Opens the online Help</td>
</tr>
<tr>
<td>Online Help VRM...</td>
<td>Opens the Video Recording Manager online Help</td>
</tr>
<tr>
<td>About...</td>
<td>Displays the About Configuration Manager dialog box, containing information on:</td>
</tr>
<tr>
<td></td>
<td>- The Bosch software components installed on this PC</td>
</tr>
<tr>
<td></td>
<td>- The software version numbers of the installed components</td>
</tr>
<tr>
<td></td>
<td>- The language in which the programs are currently displayed, and information about the storage location for the system files</td>
</tr>
<tr>
<td></td>
<td>- The licenses currently available on this PC</td>
</tr>
<tr>
<td></td>
<td>The License Viewer... button can be found in the Licenses tab. This is used to call up the License Viewer, which you use to manage your licenses.</td>
</tr>
</tbody>
</table>

### 4.2.4 Toolbar

The toolbar enables quick access to the most important functions.

To configure the toolbar individually:

1. Select **System** main tab > **Applications** tree structure element > **Configuration Manager** tree structure element > **Appearance** tab > **Toolbar** section > **Edit**....

2. Add or remove icons from the toolbar using the arrow buttons.
Reload page

Reloading the page for the selected device.

Info

This opens up a window containing detailed information about the selected device:

Live video

A window opens, displaying the live video data from the selected device. You are offered different display options depending on which device you selected.

Configuration Wizard

Starts the wizard for the basic configuration of devices.

Logging

Displays the Device Communication Log dialog box.

Here, you can view the RCP+ commands that are transmitted by Configuration Manager when connecting to devices, if you have enabled logging.

Device allocator

Displays the Device Allocator dialog box.

Table view

Displays the Table View dialog box.
4.2.5 Info Bar

When one of the **Network, Devices** or **Cameras** main tabs is opened, an info bar appears above the display area. This info bar provides you with brief information about each device you select in the main tab:

<table>
<thead>
<tr>
<th>Name</th>
<th>Device type</th>
<th>IP address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mpix / XF 1042</td>
<td>Mpix / XF</td>
<td>192.168.94.42</td>
</tr>
</tbody>
</table>

The Name, the Unit type and the IP address of the selected device are shown.

**Note:** If several devices are selected, all fields contain the entry `<multiple>`.

For hardware devices, you can use the icons on the right-hand edge of the bar to display additional information.

Move the mouse cursor over the icons to view details on the processor load, network connection and recording status:

- The left icon indicates the proportions of the individual functions on the encoder load, shown as percentages. In the case of devices with two processors, a separate icon is shown for each processor.
- The right icon indicates the network connection type and the speed of the outgoing (UL = Uplink) and incoming (DL = Downlink) data traffic.
- Information on the recording status is shown on the far right:
  - Green highlighting: active recording
  - Red highlighting: error
  - Orange highlighting: recording scheduler active, no current recordings
  - Gray highlighting: recording scheduler not active, no current recordings
4.2.6 Status Bar
The status bar at the bottom edge of the window shows the following:
- In the left-hand section: whether or not a network scan is currently in progress.
- In the central section: the number of detected, visible and selected devices.
- In the right-hand section: whether you are currently working Online or Offline, and whether or not Configuration Manager is currently connected to a server. If it is connected to a server, the server IP address is displayed. Otherwise the entry DB local appears here. If you are emulating an alien system, the entry System emulation appears here.
- On the far right the version number of Configuration Manager is displayed.
4.3 The Network, Devices, and Cameras Main Tabs

These main tabs are used to configure devices and therefore have a very similar structure. They each show a device list that can be generated in various ways:

- The **Network** main tab shows all BVIP devices supported by Configuration Manager that are detected in the network scan.
- The **Devices** main tab shows all devices that have previously been manually allocated to the system.
- You can choose to display the **Cameras** main tab. This shows the cameras that are allocated to the system directly or via a video encoder.

To display or hide the **Cameras** main tab:

1. Select **System** main tab > **Applications** tree structure element > **Configuration Manager** tree structure element > **Appearance** tab > **View** section.
2. Enable or disable **Show 'Cameras' tab**.

**Additional Information**

- The information about a device is shown in bold if the device is newly detected since the last network scan.
- The information about a device is shown in red if the device has an IP address or a MAC address that is already used by another device in the system. This might be the case, for example, if several devices that have not yet been configured are connected directly after one another.
- Additional information about the devices can be seen if you scroll to the right.
Icons
The devices in the **Network**, **Devices** and **Cameras** main tabs are represented by the following icons:

- Encoder/Decoder
- Camera
- Hardware recorder
- Storage system
- iSCSI target
- VRM server
- VRM failover server
- VRM server for second recording stream
- VRM failover server for second recording stream

**Device Status**
The status of a device is represented as follows:

- ![Icon](image)
  Device is online.

- ![Icon](image)
  Device is offline.
  A red cross indicates devices with which communication is not possible. For example, these could be devices for which the power supply has been interrupted.

- ![Icon](image)
  Device is password-protected.
  Devices that are protected by a password are indicated by a padlock until you have authenticated yourself for the device.

- ![Icon](image)
  Device is password-protected **and** offline.
4.3.1 Popup Menu
Right-click a device to open the popup menu. If you have selected multiple devices, not all options in the popup menu are active. You do not have access to all commands in Basic Mode either.

The following table provides an overview of the commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Add to System...</strong> (Network main tab)</td>
<td>The selected device is allocated to the system. Before making an allocation, you can select a group or create a new one. This command corresponds to the Device Allocator dialog box.</td>
</tr>
<tr>
<td><strong>Select Group</strong> (Devices and Cameras main tabs)</td>
<td>If several devices have been grouped, you use this option to select all devices or cameras of that group for editing.</td>
</tr>
<tr>
<td><strong>New Device...</strong> (Devices main tab)</td>
<td>You can allocate a non-listed device to the system. This menu option is only active if you click the area in the main tab in which no devices are listed.</td>
</tr>
<tr>
<td><strong>Delete</strong> (Devices main tab)</td>
<td>The selected device is deleted from the system.</td>
</tr>
<tr>
<td><strong>Set Session Authentication...</strong></td>
<td>If a selected device is protected by a password, you must authenticate yourself for that device. To do this, enter your password for one of the user levels (user, live, service) in the Session Authentication dialog box. Any fields you are not authorized to change remain marked by a padlock and are blocked for editing.</td>
</tr>
<tr>
<td><strong>Configure...</strong> (Divar XF)</td>
<td>Displays the Divar configuration tool if installed.</td>
</tr>
<tr>
<td><strong>Add iSCSI System...</strong> (VRM)</td>
<td>Displays the Add iSCSI System dialog box. Here, you can add an iSCSI system to the VRM using the host IP address and the SNMP IP address.</td>
</tr>
<tr>
<td>Command</td>
<td>Action</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>LUN Assignment...</strong> (iSCSI system)</td>
<td>Displays the <strong>LUN Assignment</strong> dialog box. Here, you can add individual LUNs to the system.</td>
</tr>
<tr>
<td><strong>File Upload</strong></td>
<td><strong>Firmware...</strong></td>
</tr>
<tr>
<td></td>
<td>You can select the desired upload file and start the upload. Refer to the information about firmware uploads in the documentation for the relevant device.</td>
</tr>
<tr>
<td></td>
<td>You can use this command to carry out a firmware upload for several devices at the same time. You must ensure that all selected devices are of the same device type when you carry out a firmware upload for several devices at the same time.</td>
</tr>
<tr>
<td></td>
<td><strong>SSL Certificate...</strong></td>
</tr>
<tr>
<td></td>
<td>Upload an SSL certificate to the device to enable encrypted communication with the device.</td>
</tr>
<tr>
<td></td>
<td><strong>Decoder Logo...</strong></td>
</tr>
<tr>
<td></td>
<td>The decoder logo is the image displayed by the decoder (e.g. VIP XD) if there is no connection to a device. You can upload your own logo for this purpose. This must be in .h263 format.</td>
</tr>
<tr>
<td>Command</td>
<td>Action</td>
</tr>
<tr>
<td>--------------------------</td>
<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Settings</td>
<td>Download...</td>
</tr>
<tr>
<td></td>
<td>Configuration data of the selected devices is saved on your computer for offline editing.</td>
</tr>
<tr>
<td></td>
<td>Upload...</td>
</tr>
<tr>
<td></td>
<td>The configuration data that was edited offline is sent to the selected device. Once the upload has been successfully completed, the device operates according to the new configuration data.</td>
</tr>
<tr>
<td></td>
<td>Replacement... (only in Devices main tab)</td>
</tr>
<tr>
<td></td>
<td>Configuration data of replaced devices is automatically replaced with locally stored data of a device of the same type.</td>
</tr>
<tr>
<td>Device Network Settings</td>
<td>You will see the Network settings dialog box.</td>
</tr>
<tr>
<td></td>
<td>This dialog box is used to change the IP address, subnet mask and gateway of the selected device or activate automatic IP assignment via DHCP.</td>
</tr>
<tr>
<td></td>
<td>This is only possible for devices that are not password-protected.</td>
</tr>
<tr>
<td>Show Live Video...</td>
<td>A window opens, displaying the live video data from the selected device. You are offered different display options depending on which device you selected.</td>
</tr>
<tr>
<td>Show in Web Browser...</td>
<td>The livepage of the Web browser view for the device is opened in the default browser.</td>
</tr>
<tr>
<td>Show Settings in Web</td>
<td>The configuration page of the Web browser view for the device is opened in the default browser.</td>
</tr>
<tr>
<td>Browser...</td>
<td></td>
</tr>
<tr>
<td>Device Info...</td>
<td>The dialog box containing device information is displayed.</td>
</tr>
</tbody>
</table>
4.3.2 The View Window

The view window for the Network, Devices and Cameras main tabs shows a series of subdivided tabs, the number and content of which depend on the device selected in the list and on whether you are working in Basic or Advanced Mode.

To activate or deactivate Advanced Mode:

- Select File menu > Advanced Mode.

The tabs can be used to make the configuration settings that the device also provides in the Web browser view, some of them with a slightly different composition:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blink LED</td>
<td>An LED on the device flashes. This allows you to check whether there is any communication between Configuration Manager and the device. This command also helps you to identify a device if several devices of the same type are installed at the same location.</td>
</tr>
<tr>
<td>Reset</td>
<td>Initiates a reboot of the device. This is only possible for devices that are not password-protected.</td>
</tr>
<tr>
<td>Ping</td>
<td>Pings the selected device to confirm network communication with the device.</td>
</tr>
</tbody>
</table>

**NOTICE!**

Changes only become active if you click the Save icon in the toolbar.
4.3.3 **Blocked Input Fields**

It is possible that some fields are blocked for editing. The causes for the block are indicated by different entries in the fields.

If several devices are selected, some settings cannot be made. The input fields are marked with a padlock.

If a device is currently recording, some settings cannot be modified. The input fields are marked with a padlock. If necessary, stop the recording.

If there is a configuration error, individual fields are marked accordingly.

This icon is also displayed if the device is offline and you attempt to load or save settings.

Input fields you are not authorized to change are marked by a padlock and are blocked for editing.

Some input fields cannot be edited when you are working offline (date and time settings).

4.4 **The System Main Tab**

This main tab enables you to access general and application-specific settings. Here, you can carry out the basic configuration for Configuration Manager itself as well as for other BVIP programs. The tab has a tree structure. If necessary, click + in front of an item to expand the subordinate items.

**The View Window**

Once again, the display window shows various additional tabs when you select an entry from the list. The content of the individual tabs is dealt with later on in the context of the component for which the settings are applicable.

For more details, refer to:

- **Section 5.1 System Main Tab – General, page 27**
- **Section 5.2 System Main Tab – Applications, page 28**
5 Working with Configuration Manager

The following section describes the settings that you must make in the System main tab to use the program for your system.

This is then followed by a description of the features that Configuration Manager offers for configuring hardware and software components.

5.1 System Main Tab – General

This is where you make the settings that affect several programs.

NOTICE!

Changes only become active if you click the Save icon in the toolbar.

5.1.1 Directories

Specify where screenshots, recording sequences and vdb.xml databases should be saved.

These settings are relevant for Video Client.

1. Select System main tab > General tree structure element > Directories tree structure element > Directories tab.
2. In the relevant input field, enter the path for the storage location or click ... to select a folder.

You can select any directory that is available in the network as the target location.

If you do not enter a screenshot folder and a recording folder, the following default setting is used:

– C:\New Folder

WARNING!

Check the selected directories regularly for available memory space. Delete recordings you no longer require to free up memory space.
5.1.2 Logging
Enable or disable the logging of RCP+ commands. A log file is created for every device in the system. You can also specify the minimum period for which you want the log data to be saved.

5.1.3 Client/Server

<table>
<thead>
<tr>
<th>Access Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect to server</td>
</tr>
<tr>
<td>Enable this option if you manage your system with VRM Server. For details, refer to the separate VRM documentation.</td>
</tr>
<tr>
<td>Server IP address</td>
</tr>
<tr>
<td>Enter the IP address of the computer on which VRM Server has been started.</td>
</tr>
<tr>
<td>IP address failover server 1</td>
</tr>
<tr>
<td>If necessary, enter the IP addresses of the failover server computers.</td>
</tr>
<tr>
<td>IP address failover server 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>iSCSI Media Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td>Password</td>
</tr>
<tr>
<td>Enter the password for accessing the iSCSI media, if these are password-protected. When assigning passwords, please note that they must be valid for the entire system.</td>
</tr>
</tbody>
</table>

5.2 System Main Tab – Applications
This is where you make the settings that affect an individual program.

**Note:** Only programs that are installed on your computer are listed under this tab. If a program is not listed under this tab, check if it is installed on your computer and install it if necessary.

**NOTICE!**
Changes only become active if you click the Save icon in the toolbar.
5.2.1 **Configuration Manager**

This is where you can change the default settings for Configuration Manager.

**CAUTION!**

Do not use any special characters, for example & in the password.

Special characters are not supported for the password and can prevent you from being able to access the program.

<table>
<thead>
<tr>
<th>Access Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Password</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network Scan Tab</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Run continuous network scan</strong></td>
</tr>
<tr>
<td><strong>Scan interval [s]</strong></td>
</tr>
<tr>
<td><strong>Use Multicast</strong></td>
</tr>
<tr>
<td><strong>Mode</strong></td>
</tr>
</tbody>
</table>
### Video Tab

<table>
<thead>
<tr>
<th>Refresh interval</th>
<th>Select how often the screenshots that are shown in the various tabs (e.g. <strong>VCA</strong>) are refreshed:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous</td>
<td>Image is refreshed as often as possible.</td>
</tr>
<tr>
<td>0 seconds</td>
<td>Image is displayed once but not refreshed.</td>
</tr>
<tr>
<td>1 ... 10 seconds</td>
<td>Image is refreshed accordingly.</td>
</tr>
</tbody>
</table>

| Encoder          | Select whether the images should be displayed in video format (**MPEG**) or as constantly updated screenshots (**JPEG**). |

### Repository Tab

<table>
<thead>
<tr>
<th>Database folder</th>
<th>Select the path to the folder for offline configuration. If you do not enter anything here, the following default setting is used:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>%current user%\My Documents\Bosch\VIDOS\ConfigurationRepository</td>
</tr>
</tbody>
</table>

### Logging Tab

| Select whether the device communication log should be written in a file and which data it should include. |

### Appearance Tab

<table>
<thead>
<tr>
<th>Restore last view</th>
<th>If you enable this option, the view last used is displayed when Configuration Manager is next started.</th>
</tr>
</thead>
<tbody>
<tr>
<td>After confirmation only</td>
<td>If you enable this option, the next time you start Configuration Manager you will be asked whether you want to restore the last view used.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Show 'Cameras' tab</th>
<th>If you enable this option, the <strong>Cameras</strong> main tab is displayed. This tab makes it easy to access typical camera settings such as the setup of alarm triggering events.</th>
</tr>
</thead>
</table>
Configuring the Main Toolbar

To adapt the main toolbar to your requirements:

1. Select **System** main tab > **Applications** tree structure element > **Configuration Manager** tree structure element > **Appearance** tab.
2. Click **Edit...** to call up the **Toolbar Settings** dialog box.
3. Click an entry to highlight it.
4. Click one of the arrow buttons to move the entry.
   - You can move an entry from the **Available actions** list to the **Showed actions** list or vice versa.
   - You can move an entry in the **Showed actions** list to another position.
5. Click **Apply** to adopt the changes and make further changes.
6. Click **Default** to restore the original settings.
7. Click **OK** to save the changes and close the dialog box.

<table>
<thead>
<tr>
<th>Main toolbar</th>
<th>Adapt the main toolbar to your requirements.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prefix device name to camera name</td>
<td>In the case of cameras that are integrated into the system via video encoders, the encoder device name is also displayed before the camera name in the camera list if this option is activated.</td>
</tr>
</tbody>
</table>
### 5.2.2 Video Client

Configuration Manager is indispensable when working with Video Client, as it allocates those devices to the system to which Video Client is to have access. This is where you can change the default settings for Video Client.

#### User Management Group

<table>
<thead>
<tr>
<th>Management Tab</th>
<th>Implement user administration to control access to the Video Client program.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameras, Digital Inputs, Relays Groups</td>
<td>Define which cameras, digital inputs and relays are listed in Video Client and define corresponding access rights.</td>
</tr>
<tr>
<td>Order Tabs</td>
<td>The tabs show a list of all cameras, digital inputs or relays assigned to the system.</td>
</tr>
<tr>
<td>Access Tabs</td>
<td>Specify the access rights for the cameras, digital inputs and relays listed in Video Client. Each user is assigned the highest authorization level by default.</td>
</tr>
</tbody>
</table>

#### Application Group

<table>
<thead>
<tr>
<th>Application Tab</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Path for manual recording</td>
<td>Select the path to the folder to which Video Client will export manual recordings. If you do not enter anything here, the following default setting is used: <code>%current user%\My Documents\Bosch\VideoClient\Recording</code></td>
</tr>
<tr>
<td>Maximum disk usage [GB]</td>
<td>Define the maximum hard disk memory to be used for manual recordings. If you do not enter anything here, the default setting <strong>10</strong> is used.</td>
</tr>
<tr>
<td>Delete recordings when maximum disk usage exceeded</td>
<td>Activate this option if existing recordings are to be overwritten when the specified maximum memory capacity has been reached.</td>
</tr>
</tbody>
</table>
### Path for action logging
You have the option of logging user actions. Select the path to the folder in which the logs are to be saved. **Note:** If no entry is made here, no user actions can be logged.

### User actions are logged
Activate this option if user actions are to be logged.

### IntuiKey COM port
If the program is operated via an IntuiKey control panel, enter the number of the COM port here.

### Licenses Tab
On this page you can find information on the licensing of camera channels in BVC (Bosch Video Client). A BVC installation has 16 camera channels as standard. You can enable additional channels by purchasing a license. For more information, please see the Bosch Video Client Operator’s manual.

### Host-ID
The host ID, which is needed to install a license for additional camera channels for BVC, is displayed here.

### Number of cameras
The number of enabled camera channels is displayed here.

### Add License...
Opens the dialog box **Add License File** for the installation of a license file for additional camera channels.
Implementing User Administration

**CAUTION!**
Do not use any special characters, for example & in the password.
Special characters are not supported for the password and can prevent you from being able to access the program.

**Note:** If you define a password for the user administrator, this will have to be entered every time the database is opened.

To create users and define user rights:

1. Select **System main tab > Applications tree structure element > Video Client tree structure element > User Management group.**
2. To create an additional user, click **Add...** A dialog box appears.
3. Enter the user name and password.
4. To define individual user rights, select the relevant entry in the list of created users and activate or deactivate the required options under **Rights:**
   - **Playback recordings** The user can replay recordings in Video Client
   - **Export recordings** The user can export recordings in Video Client
   - **Delete recordings** The user can delete recordings in Video Client
   - **Allow text display** The user can view data from ATM/POS devices
   - **Close application** The user can close the Video Client application
   - **Exit full-screen mode** The user can exit full-screen mode in Video Client
   - **Allow local recording** The user can record on the local PC
5. To remove a user, select an entry in the list of created users and click **Remove.**
Selecting Components
1. Select **System** main tab > **Applications** tree structure element > **Video Client** tree structure element > **Cameras/Digital Inputs/Relays** group > **Order** tab.
2. Select the components to be listed in Video Client. The sort order of these lists matches that in Video Client.
3. Click the **Top**, **Up**, **Down** and **End** buttons to change the position of a selected component within the list.

Specifying Access Rights
1. Select **System** main tab > **Applications** tree structure element > **Video Client** tree structure element > **Cameras/Digital Inputs/Relays** group > **Access** tab.

   To change a user's access rights, left-click the relevant table cell until the desired authorization level is selected.

   To assign a user the same authorization level for all components, or vice versa, right-click the relevant column or row header and select the desired authorization level.

Camera Access

- **PTZ configuration**: The user can configure the PTZ settings
- **PTZ control**: The user can control the camera
- **View only**: The user can display video
- **Access denied**: The user has no access to the camera

Digital Input Access, Relay Access

- **Control allowed**: The user can control the component
- **View only**: The user can display the component
- **Access denied**: The user has no access to the component
5.3 Basic Functions

5.3.1 Network Scan
The network scan is performed via the **Network** main tab. It is started automatically every time Configuration Manager is called up and, with the default settings, is repeated at regular intervals.

The network scan is not only designed to list all compatible devices in the network. The status of a device is also queried in each scan and then indicated by the icons in front of the devices.

Disable the **Run continuous network scan** option if you do not want to use this function; note that the status of the devices will not then be checked regularly either.

1. Select **System** main tab > **Applications** tree structure element > **Configuration Manager** tree structure element > **Network Scan** tab.
2. Disable **Run continuous network scan**.

Regardless of the default setting, you can trigger a network scan manually at any time.

1. Select the **Network** main tab.
2. Click the **Refresh** button below the main tab.
5.3.2 Accessing the Device

If a device is not currently communicating with the system, e.g. because it is only temporarily contactable (connection via ISDN) or because a firewall is blocking communication, information to this effect will be shown in the display window.

In this case, Configuration Manager offers various setting options to enable communication again.

**IP Address**

Communication can fail because the device IP address has been changed (e.g. via the device's Web browser view) and Configuration Manager is still using the old IP address to establish the connection.

1. Select the **Network** main tab.
2. Click the **Refresh** button below the tab.
   - Configuration Manager scans the network for devices and displays them with their current settings.
Device Access
If a firewall is blocking communication between the device and Configuration Manager, you can change the transmission protocol:
1. If not already done, enable Advanced Mode via File menu > Advanced Mode.
2. Select Devices main tab > General group > Unit Access tab.
3. In the Device access section, select the transmission protocol from the Protocol list field.
   - Standard
     UDP transmission via unspecified port
   - HTTP
     TCP transmission via preset port
   - HTTPS
     TCP transmission via preset port
4. If you have selected HTTP or HTTPS as the protocol, you must set the port to correspond to the settings stored in the device.
5. In the Authentication field, you can set up a password for a user name of the relevant device. This means that Configuration Manager automatically has access to the device when establishing a connection without the password protection having to be disabled each time.

CAUTION!
Do not use any special characters, for example &, in the password. Special characters are not supported for the password and can prevent you from being able to access the device.
5.3.3 Device Information
Configuration Manager gives you easy access to all devices in the network and you can quickly obtain all the information you need for each individual device in a clear format.

There are various options for doing this:

- The Network and Devices main tabs (and the Cameras tab, where this is displayed) show additional information (e.g. IP addresses) for all devices in the list. Scroll to the right or widen the main tab window so that you can see all the details.

- The info bar above the display window shows the name, device type and IP address. For hardware devices, it also gives information on the processor load, network connection and recording status.

- The Device info window shows hardware, configuration and connection information for the selected device. You open this window from the popup menu or by using the icon in the toolbar.

- The tabs in the display window show all the available configuration settings (comparable with the Web browser view for the relevant device). The number of tabs displayed depends on whether you are working in Basic or Advanced Mode.
5.3.4 Device Allocator

You can configure all devices via the Network main tab. It is also possible to allocate devices to the system by adding them to the Devices main tab. This simplifies configuration as you can limit yourself to a relevant selection of available devices and clearly arrange the allocated devices in groups.

Before working with Video Client, you must complete the allocation, as the program can only access devices that have been allocated to the system.

1. In the toolbar, click the Device Allocator icon. The Device Allocator dialog box opens.
   All devices detected in the network are displayed on the left-hand side of the dialog box, while those allocated to the system appear on the right.

2. Use the mouse (drag-and-drop) to move unallocated devices from the left to the right-hand side of the window.

3. Click OK.
   The devices are integrated into the system. The Device Allocator dialog box is closed. If it is not possible to integrate a device, a warning message appears.

Note: In the Device Allocator dialog box, you can sort the list of entries by clicking the appropriate table header.
Allocating an Unlisted Device

The Device Allocator dialog box also enables you to allocate devices to the system that were not detected during the network scan, e.g. because they belong to a different subnet or have not yet been switched on.

1. Right-click in the Allocated devices area of the window. The popup menu appears.
2. Select the New Device... command from the popup menu. The Device Editor dialog box appears.
3. Enter the URL (for example the IP address with the port number) of the device. The IP address must previously have been set on the device.
4. In the Type field, select <Auto detect> or select the device type from the list of supported devices.
   If you select an ISDN-compatible device, the field for the telephone number is also activated.
5. Enter the telephone number for the ISDN connection if you want a device to be connected using an ISDN line.
6. Click OK. The device is listed on the right-hand side of the window.

**NOTICE!**

Only supported devices can be allocated. The allocation is not made until you also click OK in the Device Allocator dialog box. In the list display in the main tab, these devices are marked with a red cross until they can be contacted in the network.
Creating Groups
The popup menu in the Device Allocator dialog box enables you to clearly combine the devices in the list into groups, e.g. sorted by locations.

1. Right-click in the Allocated devices area of the window. The popup menu appears.
2. Select the New Group... command from the popup menu.
3. Enter a name for the new group.
4. Click OK.

The group is displayed in the list.
The name of the group can be changed later. The Rename command in the popup menu is available for this purpose.

5. Use the mouse (drag-and-drop) to move a device from the list to the group name.
The device is added to the group and listed under the corresponding name.

6. Any devices that have been added in error can be easily removed from the group using drag-and-drop.

7. Click OK.
The grouping is represented by a tree structure in the main tab.

You can also create sub-groups by dragging a group to the name of another group in the Device Allocator dialog box.

Additional Options for Device Allocation
- You can also select the New Device... command directly in the popup menu of the Devices main tab.
- The popup menu of the Network main tab contains the Add to System... command for a selected device.

A dialog box opens, in which you can assign the device to a group. To do so, you can select an existing group or create a new group. Leave the field empty if you do not want to assign the device to a group.
Clearing Device Allocations

You can remove devices from the system at any time by clearing the allocation. The devices are then no longer listed in the Devices main tab and can no longer be accessed in Video Client.

1. In the toolbar, click the Device Allocator icon. The Device Allocator dialog box opens.
2. With the mouse button held down, drag a device from the right to the left-hand side of the window or select Delete in the popup menu.
3. Click OK.

The device no longer appears in the list in the main tab and is no longer displayed in Video Client.

Groups can also be deleted in the same way. If you delete a group, you also clear the allocation of all devices that you have allocated to that group.
5.3.5 Device Configuration Using Configuration Wizard
The Configuration Wizard helps you to configure devices in the network quickly and conveniently for basic operation.

1. Select **Tools > Configuration Wizard...** from the menu.
   The **Configuration Wizard** guides you through the configuration process in eight steps.

2. **Passwords**
   You have the option of assigning universal, system-wide passwords for the three specified user groups.
   If you do not wish to do this, leave the input fields empty.
   The passwords for the system user levels are mapped to the system components.
   When accessing a device, for example, the password for user **administrator** is used for access level **service**, while the password for user **operator** is used for access level **user**.

<table>
<thead>
<tr>
<th>Authorization level</th>
<th>Configuration Manager</th>
<th>BVIP device</th>
</tr>
</thead>
<tbody>
<tr>
<td>highest</td>
<td>administrator</td>
<td>service</td>
</tr>
<tr>
<td>medium</td>
<td>operator</td>
<td>user</td>
</tr>
<tr>
<td>lowest</td>
<td>live</td>
<td>live</td>
</tr>
</tbody>
</table>

**CAUTION!**
Do not use any special characters, for example &, in the password.
Special characters are not supported for the password and can prevent you from being able to access the device.

3. **Recorder**
   Select whether to record locally on the devices (e.g. to an SD card) or using a recorder.
   To record using a recorder, enter the relevant IP address or select the address of a configured recorder from the list.
4. **Device Selection**
   All devices detected in the network are listed. If you do not wish to configure one of the devices using the wizard, remove the check mark next to the entry by clicking on it. 
   **Note:** Not all devices support IP address configuration via DHCP. If required, click **Update** to configure these devices manually at a later stage.

5. **Network**
   Activate the **Use DHCP** option if all devices support DHCP and you want to assign IP addresses automatically in this way.
   Alternatively, enter an IP address range. This must provide sufficient IP addresses for all the devices to be configured.

6. **Date and Time**
   Select whether the date and time are to be taken from the settings on your PC or from an SNTP server. If necessary, reset the system time and date on your PC or enter the IP address of an SNTP server.

7. **Video Quality**
   You are now given the option of specifying the quality of the video data for all devices. The relevant settings for each device are made automatically.

8. **Recording**
   You now have the option of creating a uniform recording scheduler for all devices. If no recordings are to be scheduled, you must select **Off** mode for every recording profile.

9. **Summary**
   A summary of the selected settings is displayed.
   If you want to change individual settings, click **< Back** to go back step by step in the wizard.
   Click **Apply** to configure the devices according to the selected settings.
   Click **Cancel** to cancel the wizard.
5.3.6 Device Configuration Using the View Window

The view window for the **Network**, **Devices** and **Cameras** main tabs shows a series of tabs, the number and content of which depend on the device selected in the list and on whether you are working in Basic or Advanced Mode.

To activate or deactivate Advanced Mode:

- Select **File menu > Advanced Mode**.

The tabs can be used to make the configuration settings that the device also provides in the Web browser view, some of them with a slightly different composition:

Due to the large number of possible settings, not all of the details are dealt with here. Below are just a few examples of the configuration options:

- Display stamping (camera name, time stamp) on or off
- Creation of encoder profiles
- Configuration of output to an analog monitor (decoder)
- Alarm configuration
- Planning local recordings
- etc.

Detailed information about the configuration options for a device can be found in the relevant device documentation and the online Help in the relevant Web browser view.
Making Changes
1. Select the device in the main tab.
2. If you are working in Advanced Mode, click a group to display all corresponding tabs.
3. Click the tab for the area you want to edit.
4. Make the desired changes.
5. Click the Save icon in the toolbar to save the new settings.

The changed settings for that tab are now saved. You can click another tab to change more settings for this device or edit a different device.

Note: Some settings (e.g. Device time) can only be changed if the device is not currently recording. If necessary, stop any recordings before making changes.
5.3.7 **Notes on Multiple Configuration**

You can select several devices and then simultaneously make settings for all selected devices. In this way, CCTV systems can be set up quickly and efficiently.

1. Select one of the devices you want to configure in the **Network, Devices** or **Cameras** main tab.

2. Press the **Ctrl** key and select the other devices you want to configure by clicking
or
press the **Shift** key and then click another device to select all entries that lie between the two selected devices.
A group can be selected from the popup menu.
The entries for selected devices have a colored background.

3. In the display window, select the tab in which you want to make changes.
The following special features are available for multiple selections:
   - Input fields that can only be changed for individual devices (e.g. **Device IP address**) are blocked.
   - Input fields where the settings for the selected devices differ because of their type (e.g. recording planning for different video senders) are blocked.
   - Input fields that already have identical settings for all selected devices show these settings.
   - Input fields containing different entries for the selected devices show `<multiple>` or **M**.
   - Options that are only activated (checked) for some of the selected devices are indicated by a green square.

4. Change the settings as desired.

5. Click the **Save** icon in the toolbar to confirm the changes.
Changed input fields that previously contained `<multiple>` or **M** now display the uniform value.

6. Repeat steps 3 to 5 for all tabs in which you want to make changes.
5.3.8 Table view
The table view provides the option of presenting a summary of specific settings for individually selected devices in the form of a clearly arranged table. This table can be exported in *.csv format.

1. In one of the **Network**, **Devices** or **Cameras** main tabs, select one or more devices or cameras.

2. In the toolbar, click the **Table view** icon. The **Table View** is opened.

![Network Table View](image)

The table contains a column in which all previously highlighted devices and cameras are listed.
3. Use the mouse (drag-and-drop) to move the names of the required setting parameters from the different tabs into the table.

A new column is created in the table for the parameter; this displays the value for each of the selected devices and cameras.

4. Keep adding more columns to the table in this way until all the required parameters are available in this view. Not all parameters can be added to the view.

5. Hold the **Ctrl** key down and highlight further devices or cameras in the main tab to add these to the Table View.

6. Click in a field in the table. You can set parameters for individual devices or cameras directly from here.
Toolbar in the Table View

- **Set**  
  Saves any changes that you have made to the settings for devices and cameras from within the Table View

- **Export**  
  Exports the table in *.csv format

- **Reload**  
  Reloads the original display. You can reject all changes by doing this.

- **Copy**  
  Copies the table to the clipboard

- **Topmost**  
  The Table View is always displayed as the topmost window. If required, enable this option before you drag parameters from the tabs into the table.

- **Template**  
  Load or save a table template

Additional Options in the Table View

- **Sorting the table**  
  Click a column header to sort the table.

- **Popup menu for devices**  
  Right-click one of the entries. You are offered options very similar to those in the main tab.

- **Removing a column**  
  Right-click a column header and select **Remove Column**.

- **Removing all columns**  
  Right-click the **Device** column header on the left and select **Remove All Columns**. The selection for the devices and cameras remains the same.

- **Moving a column**  
  Hold the left mouse button down and drag a column header to move the column to another position.
5.3.9 **Device Health Monitor**

The device health monitor displays a dialog box containing status information for selected devices, which would otherwise be viewed via the icons on the right edge of the info bar.

1. In one of the **Network, Devices** or **Cameras** main tabs, select one or more devices or cameras.
2. In the **Tools** menu, click **Device Health Monitor**....
   
   The **Device Health Monitor** dialog box opens.

3. Click **Selection** in the menu bar or ![Selection](image) in the toolbar.

   ![Selection](image)

   For each device selected, the icons from the info bar are displayed in a small box.

4. Move the mouse cursor over the icons to view details on the processor load, network connection and recording status:
   
   - The left icon indicates the proportions of the individual functions on the encoder load, shown as percentages. In the case of devices with two
processors, a separate icon is shown for each processor.

- The right icon indicates the network connection type and the speed of the outgoing (UL = Uplink) and incoming (DL = Downlink) data traffic.
- Information on the recording status is shown on the far right:
  Green highlighting: active recording
  Red highlighting: error
  Orange highlighting: recording scheduler active, no current recordings
  Gray highlighting: recording scheduler not active, no current recordings

5. To display information for other devices, change the selection in the main tab and click **Selection** in the dialog box.

6. To reorganize the display, click **Sort** and select the category by which to sort.
   A second click reverses the sort order.

7. In the **View** menu, click **Show Icon Bar** to display a toolbar providing quick access to the various menu options.
5.3.10 iqn-Mapper

Bosch iqn-Mapper is a tool used to map replay clients to NetApp iSCSI systems. The mapping is necessary to play back video data stored on NetApp iSCSI systems. It is not required in order to play back video data stored on other iSCSI systems supported by Bosch or local storage media such as USB hard disks or CF cards.

You do not need to select the relevant devices; iqn-Mapper automatically maps only those entries listed in the Devices main tab that save to NetApp iSCSI systems. This includes all senders that use NetApp iSCSI systems as local storage as well as all VRM systems.

1. Select Tools > iqn-Mapper....

   The iqn-Mapper dialog box is opened.

   ![iqn-Mapper dialog box]

   The first parameter is determined automatically where possible. No further entries are required.

   The second parameter Configuration password (sender only) is only available if iqn-Mapper identifies senders in the Devices main tab that use NetApp iSCSI systems as local storage.

2. If the second parameter is available, enter the password defined for user root on the NetApp iSCSI drive.

3. Click OK to start the mapping for the iSCSI drive with the relevant password.

   As well as monitoring the status via the progress bar, you can also view additional information in the lower part of the window.
4. Repeat steps 2 and 3 for all root passwords in your system. If you also have drives that are not password-protected, repeat step 3 leaving the Configuration password (sender only) field blank.

5. If the second parameter is not available, simply click OK. The entire mapping process is performed automatically.

6. If no error messages appear in the lower part of the window, the mapping has been completed successfully. Click Close.

You can now play the stored video data on the PC.

The mapping process only has to be performed once for each PC to be used for video data playback. You only have to repeat the process to map any new iSCSI drives that you have added to your system.

5.3.11 Work Offline

The Work Offline function is used for the following:
- To transmit configuration data of all selected devices to one PC, to allow this to be edited locally.
- To back up the configuration files of all selected devices locally on one PC. If a device is replaced by one of the same type, the configuration data can be transmitted straight to the new device.

The Work Offline function can only be used on devices that are allocated to the system – such devices are listed in the Devices main tab.

To change the location in which configuration data is to be backed up:
1. Select System main tab > Applications tree structure element > Configuration Manager tree structure element > Repository tab.
2. Enter the path to the desired folder under Database folder.
Downloading Data for Offline Configuration

1. Select **File** menu > **Work Offline**.
   If any of the devices in the system do not support offline configuration, you will receive a message to that effect. Click **OK** to continue.

2. In the next dialog box, you can choose whether current configuration data of all devices in the system is to be saved to the local repository. Click **Yes** to update your locally saved device database.

3. The **Download of Settings** dialog box lists all devices for which configuration data is currently being transferred.

4. Click **Start**.
   If it is not possible to transfer all the data for individual devices, the number of data packets not transferred is listed in the **Failed** column.
   When the **Cancel** button is replaced by the **Close** button, the procedure is complete.

5. Click **Close**.
   If the configuration data is inconsistent for individual devices, you will receive a warning message. You can cancel the procedure at this stage and then continue to work online. If you ignore the warning, you will work offline.
   **Offline** now appears in the status bar:

6. Now use Configuration Manager to configure the devices offline. Any changes that you now make will only be saved locally on your computer.

**Note:** Configuration Manager always starts up in online mode. If Configuration Manager was closed while offline, when you next start it up you will receive a message if the configuration files in the repository differ from the current device settings. You can then choose whether to upload.

You can also perform the transfer for an individual device, e.g. to back up the configuration locally before a device is replaced.

1. In the **Network** or **Devices** main tab, right-click the device.
2. In the popup menu, select Settings > Download....

**Uploading Offline Configuration Data**

1. Select File > Work Online.
2. To send the amended configuration data to specific devices, select these devices in the Devices main tab.
3. In the popup menu, select Settings > Upload....
   The selected devices are listed in the Upload of Settings dialog box.
4. Click Start to start the procedure.
   When the Cancel button is replaced by the Close button, the procedure is complete.
5. Click Close.
   If the configuration data is inconsistent for individual devices, you will receive a warning message. You can cancel the procedure at this stage and then continue to work offline. If you ignore this warning, you will work online.

The devices now have the offline configuration settings and Online appears in the status bar again:

![Online]

**Note:** Configuration Manager always starts up in online mode. If Configuration Manager was closed while offline, when you next start it up you will receive a message if the configuration files in the repository differ from the current device settings. You can then choose whether to upload.
5.3.12 System emulation
The complete system configuration can be saved as a system image and emulated using a different Configuration Manager application. This function helps you to isolate problems without having to access the actual system.

Saving a System Image
1. Select Tools > Save System Image....
   The Save System Image dialog box opens.
2. Select the storage location and enter a name for the zip file.
3. Click Save.

Emulating an Alien System
1. Save the zip file containing the image of the alien system to your PC.
2. Select File > Emulate Alien System....
   A new dialog box opens in which you can select the storage location and the image file.
3. Click Open.
   The emulation is performed automatically. System emulation now appears in the status bar.
4. Select File > Abandon Emulation to return to your own system.
   System emulation no longer appears in the status bar.

5.3.13 Replacement
If devices have to be replaced, most of the configuration for the new devices can be done automatically using the Replacement function.

The Replacement function can only be used on devices that are allocated to the system – such devices are listed in the Devices main tab.
1. Select System main tab > Applications tree structure element > Configuration Manager tree structure element > Repository tab.
2. Enter the location in which configuration data is to be backed up under Database folder.
3. In the **Devices** main tab, right-click the device and select **Settings > Download**.
   The device configuration settings are saved locally on your PC.

4. Replace the device.

5. Select the **Devices** main tab in Configuration Manager.
   The replaced device is shown as not being configured.

6. Right-click the device and select **Settings > Replacement**.
   The **Device Replacement Wizard** dialog box lists all devices that are the same type as the replaced device and for which configuration data is saved.

7. Select the replacement device that was installed instead of the selected device.

8. Click **Next >**.
   Automatic configuration is started.

9. You will be informed if the firmware version of the device and the configuration file differ. You are able to download a new firmware version onto the device.

10. Click **Next >** again.
    The **Device Replacement** dialog box is displayed, listing the selected device and additional information.

11. Click **Start**.
    The configuration files are transferred. If it is not possible to transfer all the data, the number of data packets not transferred is listed in the **Failed** column.
    Once the transfer is complete the device is rebooted so that the new settings take effect.
    When the **Cancel** button is replaced by the **Close** button, the procedure is complete.

12. Click **Close**.
    The **Device Replacement Wizard** dialog box appears again.

13. Click **Finished** to complete the procedure.
5.4 Working with BVIP Software and Firmware Modules

5.4.1 IVA / IVMD
IVA (Intelligent Video Analysis) and IVMD (Intelligent Video Motion Detection) are modules in the device's firmware that require a license. They are enabled in the Service group in the Licenses tab of the relevant device; the license applies to the BVIP device only. IVA and IVMD are set up exclusively using Configuration Manager.
More detailed information on IVA and IVMD as well as on the configuration of these firmware modules using Configuration Manager can be found in the separate documentation supplied when you purchased the license.

5.4.2 Video Client
Configuration Manager is indispensable when working with Video Client, as it allocates those devices to the system to which Video Client is to have access. In addition, you can use the System main tab to make basic settings for using Video Client.
Please also refer to the separate Video Client documentation.

5.4.3 VRM
If you want to play back recordings managed by VRM using Video Client, the devices for which the recordings are to be available, must be allocated to the system via Configuration Manager. In addition, a connection must be established to the VRM server.
Further details can be found in the separate VRM documentation.

5.4.4 BVMS
For BVMS, Configuration Manager is primarily a tool for performing the device configuration efficiently, i.e. it is primarily the program's basic functions that are used.
5.4.5 Monitor Wall
Monitor Wall is treated as a hardware decoder by Configuration Manager. As soon as Monitor Wall is running on a PC with an IP network connection, it is added to the list after the network scan.
You can use Configuration Manager to make various settings, which are explained in more detail in the separate Monitor Wall documentation.
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