

Configuration Manager 3.2



BOSCH

en Operating Manual

Table of Contents

| | | |
|----------|-------------------------------------------|-----------|
| 1 | Introduction | 5 |
| 1.1 | About this Manual | 5 |
| 1.2 | Conventions in this Manual | 5 |
| 1.3 | Configuration Manager | 5 |
| 1.4 | System Requirements | 8 |
| 1.5 | Additional Documentation | 9 |
| <hr/> | | |
| 2 | Installation and Starting | 10 |
| 2.1 | Installation | 10 |
| 2.2 | Starting the Program | 11 |
| 2.3 | Deinstallation | 11 |
| <hr/> | | |
| 3 | Operation | 12 |
| 3.1 | The User Interface | 13 |
| 3.2 | Main Menu | 14 |
| 3.2.1 | File | 14 |
| 3.2.2 | Tools | 15 |
| 3.2.3 | Help | 17 |
| 3.2.4 | Toolbar | 18 |
| 3.2.5 | Info Bar | 19 |
| 3.2.6 | Status Bar | 20 |
| 3.3 | Main Tabs: Network, Devices and Cameras | 21 |
| 3.3.1 | Popup Menu | 22 |
| 3.3.2 | The View Window | 25 |
| 3.3.3 | Blocked Input Fields | 26 |
| 3.4 | The System Main Tab | 27 |
| <hr/> | | |
| 4 | Working with Configuration Manager | 28 |
| 4.1 | System - General Main Tab | 29 |
| 4.1.1 | Directories | 29 |
| 4.1.2 | Logging | 29 |
| 4.1.3 | Client/Server | 30 |
| 4.1.4 | BVIP Lite Suite User Management | 30 |

| | | |
|--------------------|-------------------------------------------------|-----------|
| 4.1.5 | Hardware Monitors | 31 |
| 4.2 | System - Applications Main Tab | 33 |
| 4.2.1 | Archive Player | 33 |
| 4.2.2 | Configuration Manager | 35 |
| 4.2.3 | Viewer | 38 |
| 4.3 | Basic Functions | 39 |
| 4.3.1 | Network Scan | 39 |
| 4.3.2 | Unit Access | 39 |
| 4.3.3 | Device Information | 41 |
| 4.3.4 | Device Allocator | 41 |
| 4.3.5 | Device Configuration Using Configuration Wizard | 45 |
| 4.3.6 | Device Configuration Using the View Window | 46 |
| 4.3.7 | Notes on Multiple Configuration | 47 |
| 4.3.8 | Table View | 49 |
| 4.3.9 | Device Health Monitor | 52 |
| 4.3.10 | iqn-Mapper | 53 |
| 4.3.11 | Work Offline | 54 |
| 4.3.12 | System emulation | 56 |
| 4.3.13 | Replacement | 57 |
| 4.4 | Working with BVIP Software and Firmware Modules | 59 |
| 4.4.1 | IVA / IVMD | 59 |
| 4.4.2 | Archive Player | 59 |
| 4.4.3 | Viewer | 59 |
| 4.4.4 | VRM | 59 |
| 4.4.5 | VIDOS | 60 |
| 4.4.6 | Monitor Wall | 60 |
| <hr/> Index | | 61 |

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 Manual

In this manual, 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 Configuration Manager

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 video senders (e.g. VIP X1600), video receivers (e.g. VIP XD) or VRMs.

- **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 Viewer or Archive Player.
- **Configuration Wizard**
A Configuration Wizard guides you through the configuration of 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), fundamental system settings are made using 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** 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 for selected devices, for example encoder load or Ethernet link type.

- **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 total system's configuration can be saved as a system image and emulated by another Configuration Manager application. This feature helps to dive into issues without going onsite.
- **Access to license management**

Firmware modules requiring a license, such as IVA (Intelligent Video Analysis), are set up using Configuration Manager.

1.4 System Requirements

| | |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating system | Windows XP Home Windows XP Professional SP2/SP3 Windows Vista SP1/SP2 |
| CPU | Dual Core, 3.0 GHz or faster |
| RAM | 2 GB or more |
| Graphics card | NVIDIA Quadro FX 1500 PCIe NVIDIA Quadro FX 1700 PCIe NVIDIA Quadro FX 1800 PCIe NVIDIA Quadro FX 3800 PCIe NVIDIA Quadro FX 4600 PCIe NVIDIA Quadro FX 4800 PCIe ATI FireGL V3300 PCIe ATI FireGL V5700 PCIe ATI FireGL V7200 PCIe ATI FireGL V7750 PCIe or better |
| Sound card | Recommended |
| Network adapter | 100 Mbps |

1.5 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.
- **Archive Player, Monitor Wall, VRM, IVA, IVMD** and other BVIP software
Bosch will provide you with separate documentation for each of these software products.

2 Installation and Starting

2.1 Installation

Configuration Manager is automatically part of the installation for all BVIP programs that require it for configuration purposes. Each device that can be set up using Configuration Manager is supplied with a CD on which you will find the installation file for Configuration Manager.

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.

2.2 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. You can obtain additional information here: *Section 4 Working with Configuration Manager, page 28.*

2.3 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**.

3 Operation

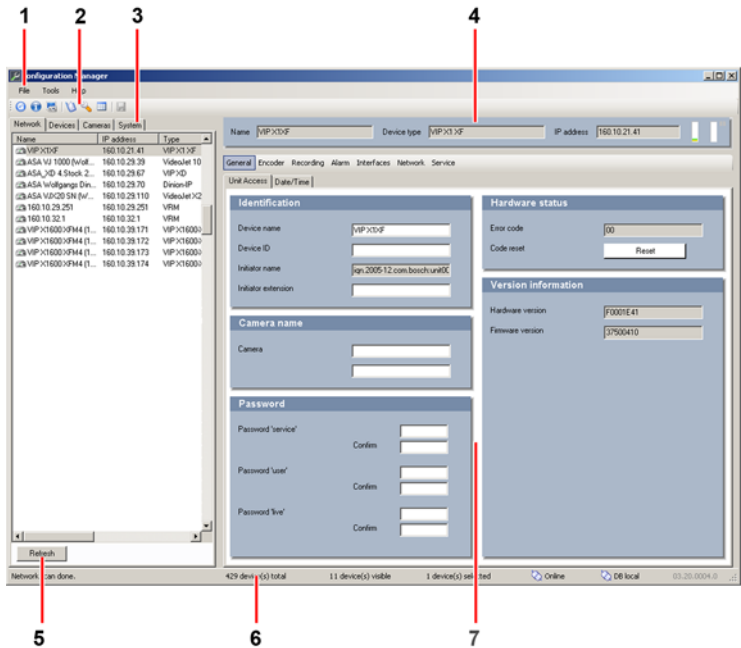
In the Configuration Manager program, you have access to all devices and software components in your CCTV network. The program offers a configuration wizard for quick basic configuration of devices. However, you can also carry out the configuration via the normal user interface. There are two options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

3.1 The User Interface



1 Main menu

2 Toolbar

Buttons for quick access to the most important functions (see: *Section 3.2.4 Toolbar, page 18*)

3 Main tabs: Network, Devices, System (and optionally Cameras)

4 Info bar with name, type and IP address of the selected device plus additional status information

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.

Below, you will find more detailed information about the program's general user interface.

The main tabs are explained in detail in separate sections:

- *Section 3.3 Main Tabs: Network, Devices and Cameras, page 21*

You can choose to show or hide the **Cameras** main tab.

The display area for each main tab contains a series of tabs through which the selected devices can be configured. The number and grouping of tabs displayed depends on whether you are working in Basic or Advanced Mode.



- *Section 3.4 The System Main Tab, page 27*

Here, you can make basic settings for Configuration Manager itself and other BVIP programs.

3.2 Main Menu





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




3.2.1 File

| | | |
|------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Advanced Mode | 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. |
|  | Connect to Server... | Connects Configuration Manager to a Server. This allows you to set up a server and configure a client/server system. |
|  | Disconnect from Server | The connection between Configuration Manager and a Server is broken. |


| | | |
|--|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Work Offline Work Online | 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. |
| | Emulate Alien System... Abandon Emulation | Imports the system image of an alien Configuration Manager system (see: <i>Section 4.3.12 System emulation, page 56</i>) |
| | Close | The Configuration Manager program is closed. This also breaks the connection between Configuration Manager and the server. |

3.2.2 Tools

| | | |
|-------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Configuration Wizard... | Starts the wizard for the basic configuration of devices (see: <i>Section 4.3.5 Device Configuration Using Configuration Wizard, page 45</i>) |
|  | 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 (see: <i>Section 4.3.4 Device Allocator</i>) |
|  | Table View | Displays the Devices Table View dialog box (see: <i>Section 4.3.8 Table View, page 49</i>) |

| | | |
|----------------------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Screenshot Scan... | 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. |
|  | Device Health Monitor... | Displays the Device Health Monitor dialog box, which offers you a quick overview on the status of selected devices (see: <i>Section 4.3.9 Device Health Monitor, page 52</i>) |
| | Save System Image... | Saves an image of the current Configuration Manager system for emulation on another PC (see: <i>Section 4.3.12 System emulation, page 56</i>) |
| | Archive Player Viewer and others | Other software components can be started directly. The prerequisite for this is that the relevant program is installed on the same PC. |
|  | iqn-Mapper... | Displays the iqn-Mapper dialog box, with which you map replay clients to NetApp iSCSI systems (see: <i>Section 4.3.10 iqn-Mapper, page 53</i>) |



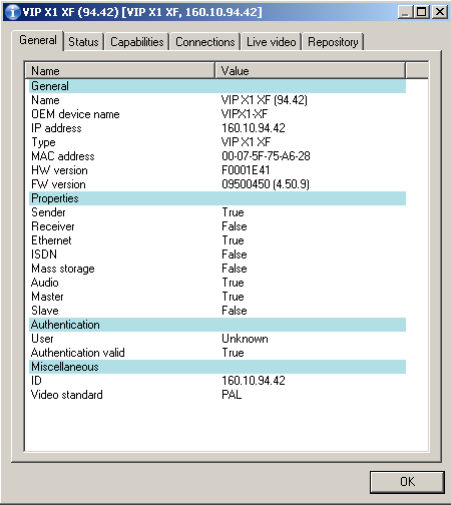


3.2.3 Help




| | | |
|-----------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Online Help... | Opens the online Help |
| | About... | <p>Displays the About Configuration Manager dialog box, which contains information about:</p> <ul style="list-style-type: none"> – The Bosch software applications installed on this PC together with their version numbers and storage location – The version numbers of the components installed by Bosch – The language in which the programs are currently displayed, and information about the storage location for the system files – The licenses currently available on this PC <p>You will find the License Viewer... button in the Licenses tab. This is used to call up the License Viewer, which you use to manage your licenses.</p> |

3.2.4 Toolbar

The toolbar enables quick access to the most important functions.

The toolbar can be configured individually (see: *Section Appearance Tab, page 37*).

|  | Reload page | Reloads the page for the selected device | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------------------------------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|----------------|--|------|-------------------|-----------------|-----------|------------|--------------|------|-----------|-------------|-------------------|------------|-----------|------------|-------------------|-------------------|--|--------|------|----------|-------|----------|------|------|-------|--------------|-------|-------|------|--------|------|-------|-------|-----------------------|--|------|---------|----------------------|------|----------------------|--|----|--------------|----------------|-----|
|  | Info | <p>This opens up a window that contains detailed information about the selected device:</p>  <table border="1" data-bbox="462 566 877 981"> <thead> <tr> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr><td colspan="2">General</td></tr> <tr><td>Name</td><td>VIP X1 XF (94.42)</td></tr> <tr><td>OEM device name</td><td>VIP X1 XF</td></tr> <tr><td>IP address</td><td>160.10.94.42</td></tr> <tr><td>Type</td><td>VIP X1 XF</td></tr> <tr><td>MAC address</td><td>00-07-5F-75-A6-28</td></tr> <tr><td>HW version</td><td>F0001E 41</td></tr> <tr><td>FW version</td><td>09500450 (4.50.9)</td></tr> <tr><td colspan="2">Properties</td></tr> <tr><td>Sender</td><td>True</td></tr> <tr><td>Receiver</td><td>False</td></tr> <tr><td>Ethernet</td><td>True</td></tr> <tr><td>ISDN</td><td>False</td></tr> <tr><td>Mass storage</td><td>False</td></tr> <tr><td>Audio</td><td>True</td></tr> <tr><td>Master</td><td>True</td></tr> <tr><td>Slave</td><td>False</td></tr> <tr><td colspan="2">Authentication</td></tr> <tr><td>User</td><td>Unknown</td></tr> <tr><td>Authentication valid</td><td>True</td></tr> <tr><td colspan="2">Miscellaneous</td></tr> <tr><td>ID</td><td>160.10.94.42</td></tr> <tr><td>Video standard</td><td>PAL</td></tr> </tbody> </table> | Name | Value | General | | Name | VIP X1 XF (94.42) | OEM device name | VIP X1 XF | IP address | 160.10.94.42 | Type | VIP X1 XF | MAC address | 00-07-5F-75-A6-28 | HW version | F0001E 41 | FW version | 09500450 (4.50.9) | Properties | | Sender | True | Receiver | False | Ethernet | True | ISDN | False | Mass storage | False | Audio | True | Master | True | Slave | False | Authentication | | User | Unknown | Authentication valid | True | Miscellaneous | | ID | 160.10.94.42 | Video standard | PAL |
| Name | Value | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Name | VIP X1 XF (94.42) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OEM device name | VIP X1 XF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IP address | 160.10.94.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Type | VIP X1 XF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MAC address | 00-07-5F-75-A6-28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HW version | F0001E 41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FW version | 09500450 (4.50.9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sender | True | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver | False | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ethernet | True | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ISDN | False | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mass storage | False | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Audio | True | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Master | True | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Slave | False | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Authentication | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| User | Unknown | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Authentication valid | True | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Miscellaneous | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ID | 160.10.94.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video standard | PAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Logging | <p>Displays the Device Communication Log dialog box.</p> <p>Here, you can view the RCP+ commands that are transmitted by Configuration Manager when connecting to devices, if you have enabled logging.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-----------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------|
|  | Device allocator | Displays the Device Allocator dialog box (see: <i>Section 4.3.4 Device Allocator, page 41</i>) |
|  | Table view | Displays the Devices Table View dialog box (see: <i>Section 4.3.8 Table View, page 49</i>) |
|  | Save | Saves any settings that have been configured for the selected device |

3.2.5 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. In addition, you can use the icons on the right-hand edge of the bar to display additional information:



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>**.

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

- The left-hand symbol indicates the proportions of the individual functions on the encoder load, shown as percentages. For devices with two processors one symbol for each processor is displayed.
- The right-hand symbol displays the Ethernet link type and the speed of the outgoing (UL = Uplink) and incoming (DL = Downlink) data traffic.

- On the far right information on the recording status are displayed:
 - green marking: recording running
 - red marking: error
 - orange marking: recording scheduler active, no recording running
 - gray marking: recording scheduler not active, no recording running

3.2.6 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 in **Online** or **Offline** mode, 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.

3.3 Main Tabs: Network, Devices and Cameras

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.

Icons are displayed in front of the listed devices to indicate the device status. In the **Network** and **Devices** main tabs, the standard icon is a server; in the **Cameras** tab, it is a camera. However, additional graphics are identical:



Device/camera is online.



Device/camera 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.



Device/camera is password-protected.

Devices that are protected by a password are indicated by a padlock until you have authenticated yourself for the device.



Device/camera is password-protected **and** offline.

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.

3.3.1 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:

| Command | Action |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Add to System... (Network main tab) | The selected device is allocated to the system. Before making an allocation, you can select a group or create a new one. Leave the field empty if you want to add a device to the system without allocating it to a group. You find more information on allocating devices and creating groups in another chapter (see: <i>Section 4.3.4 Device Allocator, page 41</i>). |
| Select Group (Devices and Cameras main tabs) | If several devices have been grouped, you use this option to select all devices or cameras of that group for editing. |
| New Device... (Devices main tab) | 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. |
| Delete (Devices main tab) | The selected device is deleted from the system. |
| Set Session Authentication... | 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. |

| Command | Action |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| File Upload | <p>Firmware...</p> <p>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.</p> <p>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.</p> <p>SSL Certificate...</p> <p>Upload an SSL certificate to the device to enable encrypted communication with the device.</p> <p>Decoder Logo...</p> <p>The decoder logo is displayed with live video, in Archive Player and in Viewer if there is a connection to the device but no data is currently being transferred. You can upload your own logo for this purpose. This must be in .h263 format.</p> |

| Command | Action |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Settings | <p>Download... Configuration data of the selected devices is saved on your computer for offline editing.</p> <p>Upload... 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 (see: <i>Section 4.3.11 Work Offline, page 54</i>).</p> <p>Replacement... (only in the Devices main tab) Configuration data of replaced devices is automatically replaced with locally stored data of a device of the same type (see: <i>Section 4.3.13 Replacement, page 57</i>).</p> |
| Device Network Settings... | <p>You will see the Network settings dialog box. Use this dialog box to change the IP address, subnet mask and gateway of the selected device or to activate automatic IP assignment with DHCP.</p> <p>This is only possible for devices that are not password-protected.</p> |
| Show Live Video... | <p>A window opens, displaying the live video data from the selected device. You are offered different display options depending on which device you selected.</p> |
| Show in Web browser... | <p>The livepage of the Web browser view for the device is opened in the default browser.</p> |
| Show Settings in Web Browser... | <p>The configuration page of the Web browser view for the device is opened in the default browser.</p> |
| Device Info... | <p>The dialog box containing device information is displayed.</p> |

| Command | Action |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blink LED | 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. |
| Reset | Initiates a reboot of the device. This is only possible for devices that are not password-protected. |
| Ping | Pings the selected device to confirm network communication with the device. |

3.3.2 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.

Advanced Mode is activated via the **File** menu.

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:


For better overview, in the Advanced Mode the tabs are divided into groups that are displayed above the tabs. Click a group to display the corresponding tabs.



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.



NOTICE!

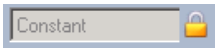
Changes only become active if you click the **Save**  icon in the toolbar.

3.3.3 Blocked Input Fields

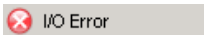
It is possible that some fields are blocked for editing. The causes for the block are indicated by different entries in the fields.



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




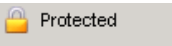
If a device is currently recording, some settings cannot be modified. The input fields are marked with a padlock. If necessary, stop the recording.



If the respective data is not yet transmitted or 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.

Click  to reload the page.



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).

3.4 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 and for additional BVIP programs such as Archive Player. 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 in the next section in the context of the component for which the settings are applicable.

For more details, refer to:

- *Section 4.1 System - General Main Tab, page 29*
- *Section 4.2 System - Applications Main Tab, page 33*

4 Working with Configuration Manager

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 use it independently of other BVIP software, for example, to simplify the configuration in a CCTV system with many similar video senders.

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 hard and software components.

4.1 System - General Main Tab

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.

4.1.1 Directories

In the **Directories** tab, you specify where screenshots and recording sequences should be saved.

These settings are relevant for:

- Archive Player
- Viewer
- Player

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 anything here, the following default settings are used:

- %current user%\My Documents
 \Bosch\VIDOS\Snapshots
 and
- %current user%\My Documents
 \Bosch\VIDOS\Recordings



WARNING!

Check the selected directories regularly for available memory space. Delete recordings you no longer require to free up memory space.

4.1.2 Logging

Here, you 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.

4.1.3 Client/Server

Access Tab

Connect to server

Enable this option if you manage your system with VRM Server. For details, refer to the separate *VRM* documentation.

Server IP address

IP address backup server 1

IP address backup server 2

Enter the IP address of the computer on which VRM Server has been started and, if necessary, the IP addresses of the backup server computers.

iSCSI Media Tab

Password

Enter the password for accessing the iSCSI media, if these are protected with a password. When you are creating the passwords, please note that these need to be valid for the entire system.

4.1.4 BVIP Lite Suite User Management

You can use Configuration Manager to set up a User management that regulates access to the Configuration Manager, Archive Player and Viewer programs.

To do this, you create users that belong to a predefined user group with associated access rights.

Active

If this option is activated, users are required to identify themselves with a user name and password when they start the Configuration Manager, Archive Player and Viewer programs.

Users

Click **Add...** to create another user. A dialog box appears, for you to enter the user name and password. Select one of the predefined user groups: admin, user or guest. Only users in the **admin** user group have access to Configuration Manager.

Click **Edit...** to change the details for a selected user.

Click **Remove** to delete the selected user from the list.

You can also restrict access to Configuration Manager separately using a password (see: *Section Access Tab, page 35*).

4.1.5 Hardware Monitors

Hardware monitors are video monitors that are integrated into the system via video decoders. Software monitors are the monitors displayed in the Viewer and Archive Player playback windows. You can use this matrix to permanently connect hardware and software monitors to one another. This means that as soon as a software monitor that is connected in this way is activated in Viewer or Archive Player, the image is also displayed on the associated hardware monitor.

Connection setup

Here you specify the allocation of software monitors to hardware monitors.

For each of the ten possible connections, enter the position (column; row) of a software monitor in the layout. You specify the position in Archive Player or Viewer, by entering numbers at the top left from 0 and 0 upwards.

Sample layout:

| | | | |
|-----------------|------|------|------|
| Column=0; row=0 | | | 3; 0 |
| | | | 3; 1 |
| | | | 3; 2 |
| 0; 3 | 1; 3 | 2; 3 | 3; 3 |

Text

Enter text here that is displayed in Archive Player or Viewer on the selected software monitor while no camera connection is active.

For example, enter the location of the connected hardware monitor here. This makes it easy to see where else the video data for the camera connected here is displayed.

Destination

Enter the IP address of the hardware monitor here.

Video Output**Quadrant**

Specify which of the available video transmissions is displayed on the hardware monitor. The selection depends on the device selected.

Use with Archive Player

Enable this option if camera connections that are switched in Archive Player are also to be switched for the corresponding hardware monitors.

Use with Viewer


Enable this option if camera connections that are switched in Viewer are also to be switched for the corresponding hardware monitors.

4.2 System - Applications Main Tab

This is where you make the settings that affect an individual program.



NOTICE!

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

4.2.1 Archive Player

Configuration Manager is indispensable when working with Archive Player, as it allocates those devices to the system to which Archive Player is to have access.

This is where you configure the default settings for Archive Player.

General Tab

Maximum trick mode instances

Dependent on your hardware's specification, you can select the number of playback instances on which you want to apply trick mode simultaneously.

Enable smooth playback

This function is switched on and off here.

Pre-event offset (ms)

Here, you can define the point at which the playback should start by entering the number of milliseconds running up to the event you have selected. If you enter **5000**, for example, the playback will always show the five seconds prior to the event.

Animate monitor layout change

This function is switched on and off here.

COM port

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

Export Tab

Default export format

Here you can select the file format for exports. Select the **Sender (Bosch MPEG)** option if the data is to be displayed with

Archive Player or Player. Metadata and bookmarks are also saved.

Select the **Windows (*.wmv)** option if the data is to be displayed on a Windows PC, irrespective of the CCTV system. Metadata and bookmarks are not saved.

Default export path

Here you can select the path to the folder to which Archive Player will export recordings. The path can be changed subsequently in Archive Player for individual exports. If you do not enter anything here, the following default setting is used:

%current user%\My Documents\Bosch\VIDOS\Export

Maximum concurrent downloads

Archive Player provides recordings from all available devices in the network locally on a PC and allows the corresponding files to be exported. Under certain circumstances, exporting recordings can result in a heavy network load. For this reason, you can limit the number of concurrent downloads here. This setting depends on both the local network's and the PC's specification.

Maximum download attempts

If a recording cannot be exported at the first attempt, Archive Player repeats the attempt several times. These attempts block other outstanding exports. For this reason, you can limit the number of download attempts here.

Maximum download speed (%)

The download speed can be adjusted for exports in **Sender (Bosch MPEG)** format. For example, if you enter **100**, the download occurs at normal speed, but if you enter **200**, it will occur twice as quickly. Select **0** (zero) if all exports are to be carried out at the maximum possible speed.

This option does not affect exports in **Windows (*.wmv)** format.

Resume aborted exports

Select **On** if interrupted exports in **Sender (Bosch MPEG)** format are to be restarted when the program has been rebooted.

This option does not affect exports in **Windows (*.wmv)** format.

VRM Server Tab

Connect to server

Activate this option if VRM Video Recording Management is being used on your system.

Server IP address

IP address backup server

Enter the IP address of the computer on which VRM Server has been started and, if necessary, the IP address of the backup server computer.

4.2.2 Configuration Manager

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

Access Tab

Password

You can assign a password here that protects access to Configuration Manager. This password is only valid for the computer on which it was set up.

If this field is left empty and you have not assigned other user rights, the program will start without asking for a password (see: *Section 4.1.4 BVIP Lite Suite User Management, page 30*).

Network Scan Tab

Run continuous network scan

Enable this option if the network is to be scanned at regular intervals.

Scan interval (s)

You can enter the time interval in seconds for automatic scanning here, choosing a value between 10 and 3600 seconds (1 hour).

Use Multicast

If you are using devices in various subnets, activate this option. This allows all devices that belong to a different subnet than the PC on which Configuration Manager is installed to also be

included in the network scan. Otherwise you will have to manually add these devices to the system.

Multicast operation requires a multicast-enabled network that uses the UDP and the Internet Group Management IGMP protocols.

Mode

You can define IP address ranges here and explicitly allow or deny the use of these addresses.

Video Tab

Refresh interval

Select how often the screenshots that are shown in the various tabs (e.g. **VCA**) are refreshed:

- **Continuous**
Image is refreshed as often as possible.
- **0 seconds**
Image is displayed once but not refreshed.
- **1 ... 10 seconds**
Image is refreshed accordingly.

Encoder

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

Repository Tab

Database folder

Select the path to the folder for offline configuration.

If you do not enter anything here, the following default setting is used:

%current user%\My

Documents\Bosch\VIDOS\ConfigurationRepository

Appearance Tab

Restore last view

If you enable this option, the view last used is displayed when Configuration Manager is next started.

After confirmation only

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.

Show 'Cameras' tab

If you enable this option, the **Cameras** main tab is displayed. This tab makes it easy to access typical camera settings such as the setup of alarm triggering events.

Main toolbar

You can adapt the main toolbar to your requirements here:

1. Click **Edit...** to call up the **Toolbar Settings** dialog box.
2. Click an entry to highlight it.
3. 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.

4. Click **Apply** to adopt the changes and make further changes.
5. Click **Default** to restore the original settings.
6. Click **OK** to save the changes and close the dialog box.

Prefix device name to camera name

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.

4.2.3 Viewer

Configuration Manager is indispensable when working with Viewer, as it allocates those devices to the system to which Viewer is to have access.

You change the default settings for Viewer here.

General Tab

Maximum concurrent decoder instances

Here you can set how many video streams can be shown simultaneously in real time in Viewer. You can also open further monitors and add connections; however, these are only displayed as preview screens. In this way, you can limit the network load.

Lip sync

If this option is activated, audio and video data is synchronized, meaning that there may be a delay when transferring audio data, depending on the connection.

"Instant Replay" time range (min)

Here, you enter the time for which you want instant replay to be displayed.

Show VCA metadata

When a video is displayed in Viewer, the video content analysis metadata, such as object outlines, is also displayed if this option is activated.

Animate monitor layout change

This function is switched on and off here.

Automatic device reconnection

If this option is activated, all the connections that were last enabled are automatically restored when Viewer is restarted. For details, refer to the separate *Viewer* documentation.

4.3 Basic Functions

4.3.1 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.

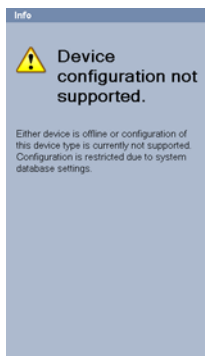
The network scan is not only designed to list all compatible devices in the network. The status of a device is also queried in each scan and then indicated by the icons in front of the devices.

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.

Regardless of the default setting, you can trigger a network scan manually at any time in the **Network** main tab. To do this, click the **Refresh** button below the main tab.

4.3.2 Unit Access

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, the tab 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. Enter the new IP address here, so that Configuration Manager can use this to establish a connection. Any changes here will not have an effect on the device IP address.

– **ISDN**

Enter the telephone number for the device's ISDN connection here.

– **Device access**

If a firewall is blocking communication between the device and Configuration Manager, you can change the transmission protocol in the **Protocol** field:

Standard

UDP transmission via unspecified port

HTTP

TCP transmission via preset port

HTTPS

TCP transmission via preset port

If you have selected HTTP or HTTPS as the protocol, you must set the port to correspond to the settings stored in the device.

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.

4.3.3 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 plus additional status information.
- 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.

4.3.4 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 Archive Player and Viewer, you must complete allocation, as both programs 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 is opened.

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**.

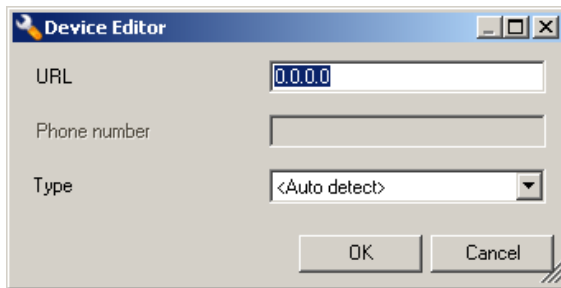
The devices are integrated into the system. The **Device Allocator** dialog box is closed. If it is not possible to integrate a device, a warning message appears.

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

Dedicating 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. if they belong to a different subnet or have not yet been switched on.

1. Right-click in the **Dedicated 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 dedication 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 **Dedicated 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 to do this.

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 from the popup menu of the **Devices** main tab and then proceed as described here: *Section Dedicating an Unlisted Device, page 42*.

The popup menu of the **Network** main tab contains the **Add to System...** command for a selected device.

The popup menu in the **Screenshot Scan** window also contains the **Add to System...** command for the screenshots displayed. In both cases, a dialog box is opened, in which you can assign the device to a group. To do so, you can also 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 Archive Player or Viewer.

1. In the toolbar, click the **Device allocator** icon .
The **Device Allocator** dialog box is opened.
 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 Archive Player or Viewer.
- 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.

4.3.5 Device Configuration Using Configuration Wizard

The Configuration Wizard helps you to configure devices in the network quickly and conveniently for basic operation. In Basic Mode, the wizard starts automatically each time a device with a default IP address is detected in the network scan.

1. Select **Tools > Configuration Wizard...** from the menu.
The Configuration Wizard leads you through the configuration in seven steps.
2. **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 **Resolve** to configure these devices manually at a later stage.
3. **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.
4. **Date and Time**
The date and time are adopted from the settings on your PC. If required, reconfigure the system time and system date on your PC.
5. **Passwords**
You are now given the option of assigning passwords that apply to all devices.
If you do not wish to do this, leave the input fields empty.
6. **Video Quality**
You are now given the option of specifying the quality of the video data for all devices. As an alternative, you can limit the maximum network bandwidth. The relevant settings for each device are made automatically.
7. **Recording**
You can start recording on the local recording media directly with the wizard. To do this, select your favorite

recording mode: **Continuous** for uninterrupted recording, **Motion** for recording only in case of motion in the video image.

8. 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.

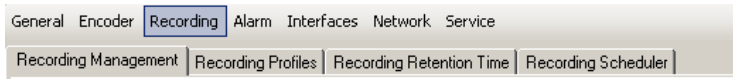
Click **Cancel** to cancel the wizard.

4.3.6 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.

Advanced Mode is activated via the **File** menu.

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.

Basic Information for Operation

1. Select the device in the main tab.
2. If you are working in Advanced Mode, click one of the groups to display all the 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.


4.3.7 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 a device that 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.

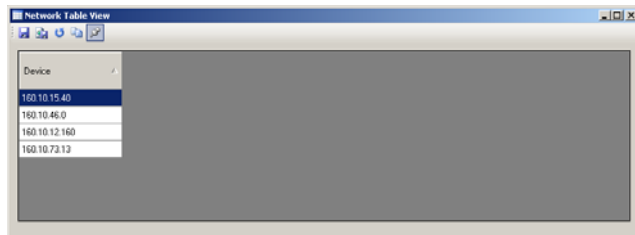
The following special features are available for multiple selections:

- On the right-hand side, only those tabs that are available for all selected devices are shown.
 - 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 enabled (checked) for some of the selected devices are grayed out.
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.

4.3.8 Table View

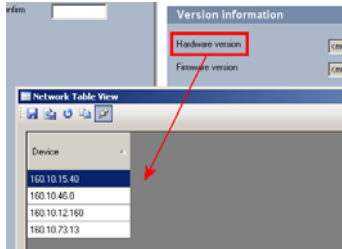
The table view provides the option of presenting a summary of specific settings for individual selected devices in the form of a clearly arranged table. This table can be exported in *.csv format.

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** dialog box opens.

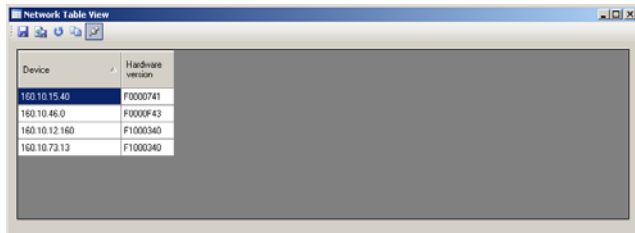


The table contains a column in which all previously highlighted devices and cameras are listed.

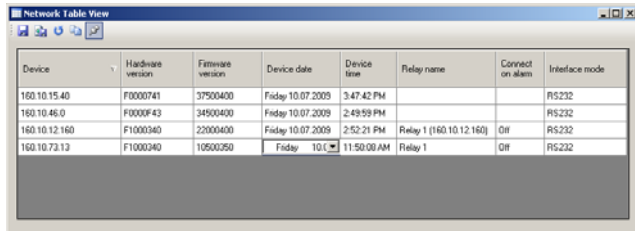
- Use the mouse (drag-and-drop) to move the names of the required setting parameters from the different tabs into the table.








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



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

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 (see: *Section 3.3.1 Popup Menu, page 22*).
- 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 right mouse button down and drag a column header to move the column to another position.

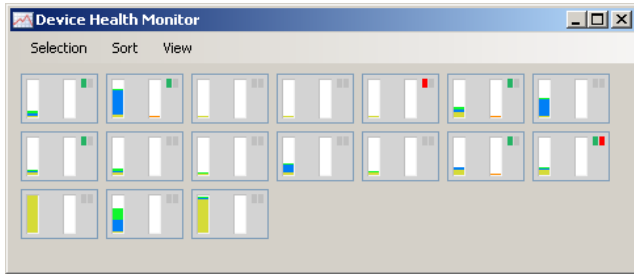
4.3.9 Device Health Monitor

The device health monitor displays combined in one dialog the status information on selected devices which you otherwise get via the icons on the right-hand edge of the info bar (see:

Section 3.2.5 Info Bar, page 19).

1. In one of the **Network**, **Devices** or **Cameras** main tabs, select one or more devices or cameras.
2. Select **Tools > Device Health Monitor...**

The **Device Health Monitor** dialog box opens.



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

3. Move the cursor over the icons to display details on processor load, network connection and recording status:
 - The left-hand symbol indicates the proportions of the individual functions on the encoder load, shown as percentages.
 - The right-hand symbol displays the Ethernet link type and the speed of the outgoing (UL = Uplink) and incoming (DL = Downlink) data traffic.
 - On the far right information on the recording status are displayed:
 - green marking: recording running
 - red marking: error
 - orange marking: recording scheduler active, no recording running
 - gray marking: recording scheduler not active, no recording running

4. To view information on other devices, change the selection in the main tab and click **Selection** in the dialog box.
5. To rearrange the order of display, click **Sort** and choose the category by which to sort.
6. Click **View** to display a tool bar for quick access to the various menu entries.

4.3.10 iqn-Mapper

Bosch iqn-Mapper is a tool to map replay clients to NetApp iSCSI systems. The mapping is a precondition to enable replays of video data stored on NetApp iSCSI systems. It is not necessary for replay of video data stored on other iSCSI systems supported by Bosch or on local storage media like USB hard disks or CF cards.

You do not need to select the respective devices; iqn-Mapper automatically maps only those entries in the **Devices** main tab that record on NetApp iSCSI systems. This includes all senders that use NetApp iSCSI systems as local storage and all VRM systems.

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

The **iqn-Mapper** dialog box opens.



The first parameter is detected automatically where possible. No additional input is required.

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

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

3. Click **OK** to start the mapping for the iSCSI drive with the respective password.
The progress is displayed in the progress bar and you get additional status information in the lower window pane.
4. Repeat steps 2 and 3 for all **root** passwords in your system. If you also have storage that is not password protected repeat step 3 once more leaving the **Configuration password (sender only)** field empty.
5. If the second parameter is not available simply click **OK**. The entire mapping will be done automatically.
6. If no error messages appear in the lower window pane the mapping was completed successfully. Click **Close**.

You can now replay the recorded video data on the PC.

The mapping procedure is only necessary once on any PC that you want to use for replay of video data. Only when you have added additional iSCSI drives to your system you have to repeat the procedure to map the new drives.

4.3.11 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 allocated to the system – such devices are given in the **Devices** main tab. For detailed information on how to allocate devices to the system, please see here: *Section 4.3.4 Device Allocator, page 41*.

The location in which configuration data is to be backed up can be changed in the **System** main tab under **Applications > Configuration Manager**. Click the **Directories** tab.

Downloading Data for Offline Configuration

1. Select **File > 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 that are not transferred is listed in the **Failed** column.
If 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.

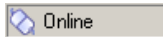
You can also perform the transfer for an individual device, e.g. to back up the configuration locally before a device is replaced. To do this, right-click the device in the **Network** or **Devices** main tab and select **Settings > Download....**

Uploading Offline Configuration Data

1. Select **File > Work Online**.
2. To send the amended configuration data to selected devices, select these devices in the **Devices** main tab.

3. In the popup menu, select **Settings > Upload...**
The selected devices are displayed in the **Upload of Settings** dialog box.
4. Click **Start** to start the procedure.
If 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:



Note: Configuration Manager always starts up in the mode that was used before closing the system.

4.3.12 System emulation

The total system's configuration can be saved as a system image and emulated by another Configuration Manager application. This feature helps to dive into issues without going onsite.

Save System Image

1. Select **Tools > Save System Image...**
The **Save System Image** dialog box opens.
2. Specify where you want to save the zip-file and what name you want to save it under.
3. Click **Save**.

Emulating an Alien System

1. Save the zip-file of 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 done 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.

4.3.13 Replacement

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

The **Replacement** function can only be used on devices that are allocated to the system – such devices are given in the **Devices** main tab. For detailed information on how to allocate devices to the system, please see here: *Section 4.3.4 Device Allocator, page 41*.

1. Right-click the device and select **Settings > Download...**
The device configuration settings are saved locally on your PC.

The location in which configuration data is to be backed up can be changed in the **System** main tab under **Applications >**

Configuration Manager.

There, click the **Directories** tab.

2. Replace the device.
3. Select the **Devices** main tab in Configuration Manager.
The replaced device is shown as not being configured.
4. 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 also saved.

5. Select the replacement device that was installed instead of the selected device.
6. Click **Next >**.
Automatic configuration is started.
7. 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.

8. Click **Next >** again.
The **Device Replacement** dialog box is displayed, which lists the selected device and additional information.
9. Click **Start**.
The configuration files are transferred. If it is not possible to transfer all the data, the number of data packets that are not transferred is listed in the **Failed** column.
Once the transfer is complete the device is rebooted so that the new settings take effect.
If the **Cancel** button is replaced by the **Close** button, the procedure is complete.
10. Click **Close**.
The **Device Replacement Wizard** dialog box appears again.
11. Click **Finish** to complete the procedure.

4.4 Working with BVIP Software and Firmware Modules

4.4.1 IVA / IVMD

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

4.4.2 Archive Player

Configuration Manager is indispensable when working with Archive Player, as it allocates those devices to the system to which Archive Player is to have access. In addition, you can use the **System** main tab to make basic settings for using Archive Player.

Please also refer to the separate *Archive Player* documentation.

4.4.3 Viewer

Configuration Manager is indispensable when working with Viewer, as it allocates those devices to the system to which Viewer is to have access. In addition, you can use the **System** main tab to make basic settings for using Viewer.

Please also refer to the separate *Viewer* documentation.

4.4.4 VRM

If you want to play back recordings managed by VRM using Archive Player, 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.

4.4.5 VIDOS

For VIDOS, 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.

4.4.6 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.

Index

A

Animation of layout change 33, 38

Authentication 22

B

Basic Mode 12

Blink LED 25

BVIP 6

C

Cameras 37

COM port 33

Connection

 local or server 20

D

Database

 folder 36

Device

 allocating 41

 allocating group 43

 clearing allocation 44

 IP address 40

 ISDN 40

 protected 21

 replacing 57

 reset 25

 synchronized settings 47

 unattainable 21

Device allocator 41

Device grouping 43

Device health monitor 16

Device network settings 24

Device status 21

DHCP 24

Download 24

Download speed 34

E

Export format (Archive Player) 33

Export path (Archive Player) 34

F

Firewall 40

Firmware upload 23

H

Help (menu) 17

I

Info bar 19

Instant replay

 time range 38

IP address range 36

iqn-Mapper 16

ISDN 40

IVMD 59

L

License 17

Limit

 decoder instances 38

 download attempts 34

 file export 34

 trick mode instances 33

live 22

Logging 29

M

Multicast 35

multiple 19

N

Network scan 35

O

Offline 15

Online 15

P

Padlock 21, 22, 26

Password

 Configuration Manager 35

 device 21

 iSCSI media 30

Program

 starting 11

R

RCP+ logging 29

Recording

 specifying directory 29

Refresh 39

Replacement 24

Resuming exports 34

S

Scan interval 35

Screenshot

refresh interval 36

specifying directory 29

Screenshot scan 16

service 22

Session authentication 22

Set session authentication 22

Status bar 20

Storage location

system files 17

Symbols 5

System

refresh view 39

System emulation 15, 16, 56

T

Trick mode 33

U

Unit access 39

Upload 24

user 22

V

Version numbers

applications 17

components 17

VRM 35, 59

W

Web browser view 24

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