


Quick Guide – MOBOTIX NAS & MOVE/ONVIF Cameras

Setting up MOBOTIX NAS/MxManagementCenter Using **MOVE/ONVIF** Cameras



Setting up MOBOTIX NAS & MOVE/ONVIF Cameras

 Quick Guide – MOBOTIX NAS & Device Finder
www.mobotix.com

 MxManagementCenter Tutorial
www.mobotix.com

1 MxManagementCenter

Download and install MxManagementCenter
(www.mobotix.com)

Start MxManagementCenter

Add MOBOTIX MOVE/ONVIF cameras

Check integration key

2 Device Finder

Download and install Device Finder
(www.mobotix.com)

Start Device Finder

Identify device

Update firmware (if required)

Configure Basic Settings

3 NAS Web Interface

Install apps

Container Station

QVR Pro (Recording App)

QVR Pro

Configure recording space

Add cameras (MOVE/ONVIF only)

4 MxManagementCenter

Assign recording paths

Assign cameras to recording paths

This document is valid for the following MOBOTIX NAS models

Product Name	Item Number	Product Label
MOBOTIX NAS 2-Bay/8 Channels	Mx-S-NAS2a-8	251-G
MOBOTIX NAS 4-Bay/16 Channels	Mx-S-NAS4A-16	451-G
MOBOTIX NAS 8-Bay/32 Channels	Mx-S-NAS8A-32	873U-G

Minimum requirements for software versions

- MOBOTIX NAS: Mx-NAS2-4A-4.3.4.0807, Mx-NAS8A-4.3.4.0807, ContainerStation 1.8.3.207, MOBOTIX NAS QVRProServer 1.2.1.0 (see MOBOTIX NAS Quick Install)
- MOBOTIX MOVE: SD1A → MB20181025RS, BC1A/VD1A → MB20181025RP
- MxManagementCenter: 2.2+

IMPORTANT: We recommend updating all system components to the latest software releases. Please download the latest releases of MxMC, MOBOTIX NAS, and MOBOTIX MOVE cameras from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Software Downloads

Video Tutorials are available from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Documentation > Video Tutorials

The **MOBOTIX NAS HDD Compatibility List** is available from the MOBOTIX website www.mobotix.com:

- Support > Download Center > Documentation > White Lists

A Note on Licensing

MxManagementCenter can show MOBOTIX IoT and MOVE cameras “as is”, i.e., without any further licensing. For bandwidth-optimized usage and professional applications, it is highly recommended to use **H.264** (requires a license for MxManagementCenter).

For more information on licensing models, please read the **Compact Guide MxMC 2.0** from the MOBOTIX website www.mobotix.com:

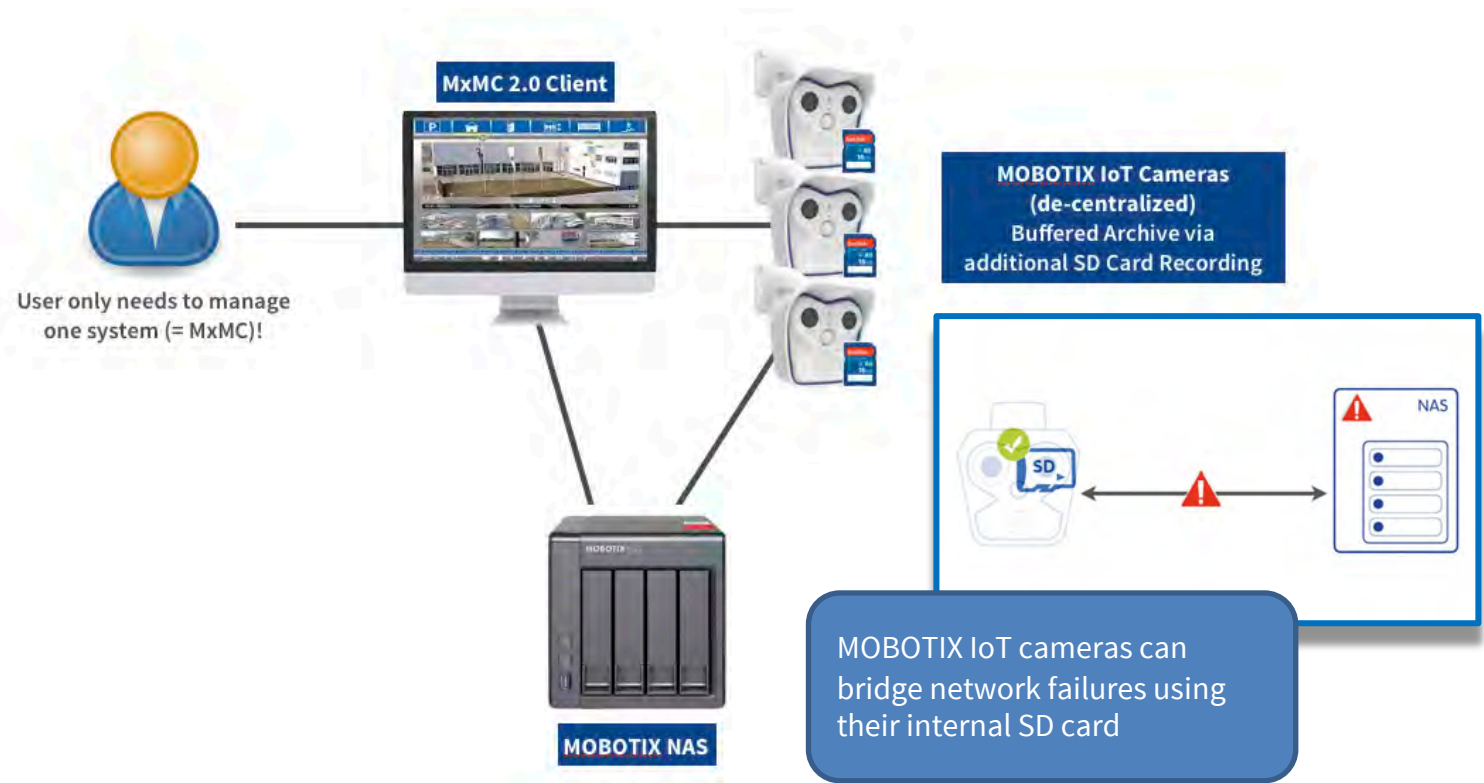
- Support > Download Center > Documentation > Brochures & Guides
- Only one Starter License per MxMC required to enable H.264

Password Security!

- **NEVER use the default access privileges!** Always make sure that you have changed the default passwords to strong passwords (numbers, lower/upper case letters, special characters)!
- The **default user** of the MOBOTIX NAS is “**admin**” and the **password** is “**admin**”.
- The **default user** of the MOBOTIX Cameras is “**admin**” and the **password** is “**meinsm**”.

The objective of this document is to set up a MOBOTIX NAS as a **storage device** for **MOBOTIX Move-Kameras** bzw. **ONVIF-Kameras**.

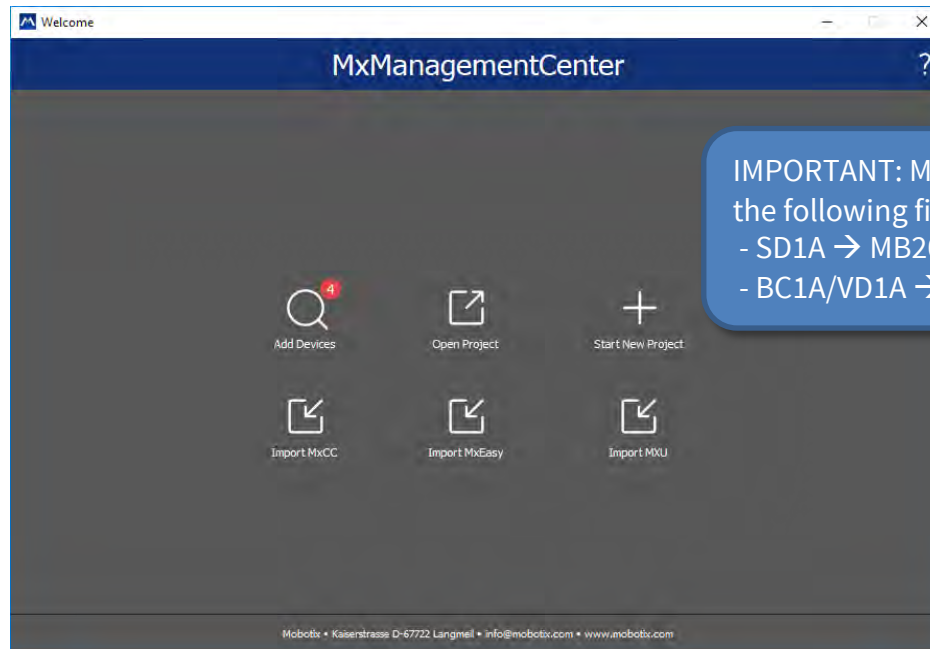
The **MOBOTIX NAS QVRProServer** recording software is required for recording from **MOBOTIX Move-Kameras** bzw. **ONVIF-Kameras** on the NAS. For most efficient configuration of camera settings, use the **Advanced Configuration** feature of MxManagementCenter.



Step 1 – Add ONVIF S Cameras to MxManagementCenter

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1. Start **MxManagementCenter**.
2. Start the **Welcome Wizard** by clicking on **File > Welcome** in the menu bar.



3. Click on **Add Devices**. Then select the desired ONVIF S-compliant cameras you'd like to add to MxMC.
Note: It can take up to ten minutes to find an ONVIF camera. As an alternative, you can manually add the cameras to the list by clicking the “+” icon in the control bar.
4. Enter the access privileges. You need access privileges of a user with ONVIF administration level access. For MOBOTIX MOVE cameras, the admin user in the camera's web interface is also the ONVIF admin. For other camera brands (e.g., Axis), the roles for web interface admin and ONVIF admin are separate.

Step 2 – Adjust the Image Settings for Live and Recording

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Configuration - MOBOTIX MOVE

Camera Configuration

Name: MOVE-10.192.0.67

Connection Protocol: MOBOTIX MOVE

URL: 10.192.0.67

Remote URL: DynDNS

User Name: admin

Password:

Environment: Default

Remote: ☐

SSL: ☐

Bandwidth: ☒ Hi ☐ Lo

Connection Settings

Recording Settings: MOVE-Recorder

Bandwidth Settings HiRes

HiRes Profile: MxHiQuality

Video Encoder: VideoEncoder1

Video Codec: H.264

Frames per Second: 20 fps

Resolution: 1920x1080

Image Quality: 50%

Bandwidth Settings LoRes

LoRes Profile: MxLoQuality

Video Encoder: VideoEncoder2

Video Codec: H.264

Frames per Second: 20 fps

Resolution: 1920x1080

Image Quality: 50%

Create MxProfiles

Integration Key: bb9a3442-3a4e-459a-9039-7a6e6b1f54c6

Callout Box:

Open lock icon to enter edit mode, then...

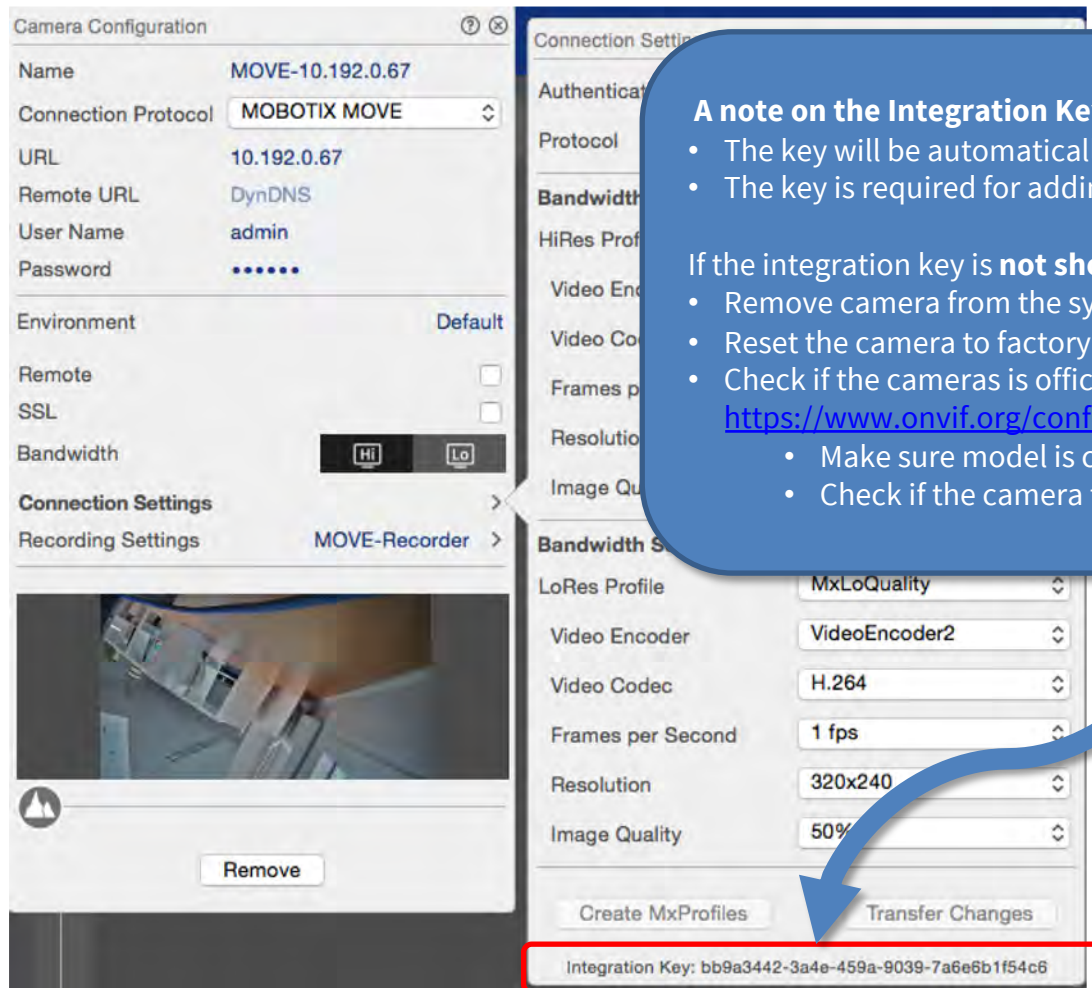
1. Right-click one or more selected **MOVE/ONVIF** cameras.
2. Open **Connection Settings**.
3. Select your image and codec settings.

Note on Image & Codec Settings:

- MxMC defines the settings for **Live** and **Recording**.
- The HiRes profile **MxHiQuality** belongs to the **Recording** settings of the NAS.
- **H.264** Codec requires a **Starter License** for MxManagementCenter.

Step 3 – Check the Integration Key

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A note on the Integration Key

- The key will be automatically set while adding the camera.
- The key is required for adding the camera in the MOBOTIX NAS.

If the integration key is **not shown below**, please try the follow steps:

- Remove camera from the system and add it again!
- Reset the camera to factory defaults and add the camera again.
- Check if the cameras is officially registered as an ONVIF S client at <https://www.onvif.org/conformant-products/>
 - Make sure model is conforming (using exact model name).
 - Check if the camera firmware release is conforming.

Step 4: Setup MOBOTIX NAS (1)

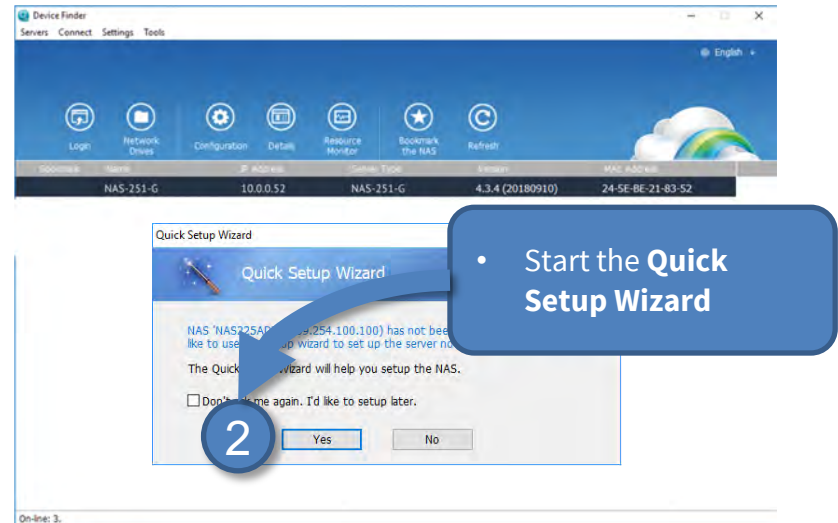
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The screenshot shows the 'Device Finder' application window. At the top, there are tabs for 'Servers', 'Connect', 'Settings', and 'Tools'. Below these are icons for 'Login', 'Network Drives', 'Configuration', 'Details', 'Resource Monitor', and 'Bookmark the NAS'. A table lists discovered devices with columns for 'Name', 'IP Address', and 'Server Type'. One device, 'NAS-251-G' with IP '10.0.0.52', is highlighted. A blue callout box with a '1' points to this device.

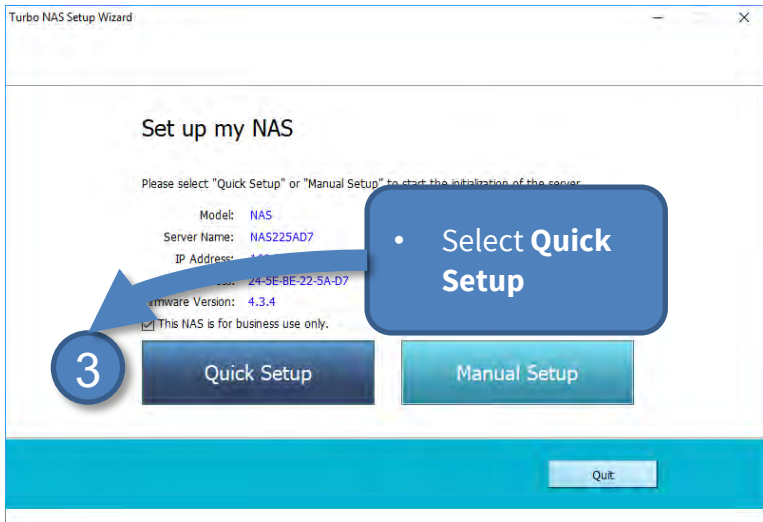
Name	IP Address	Server Type
NAS-251-G	10.0.0.52	NAS-251-G

- Start **Device Finder**, to detect the MOBOTIX NAS
- Doubleclick the device



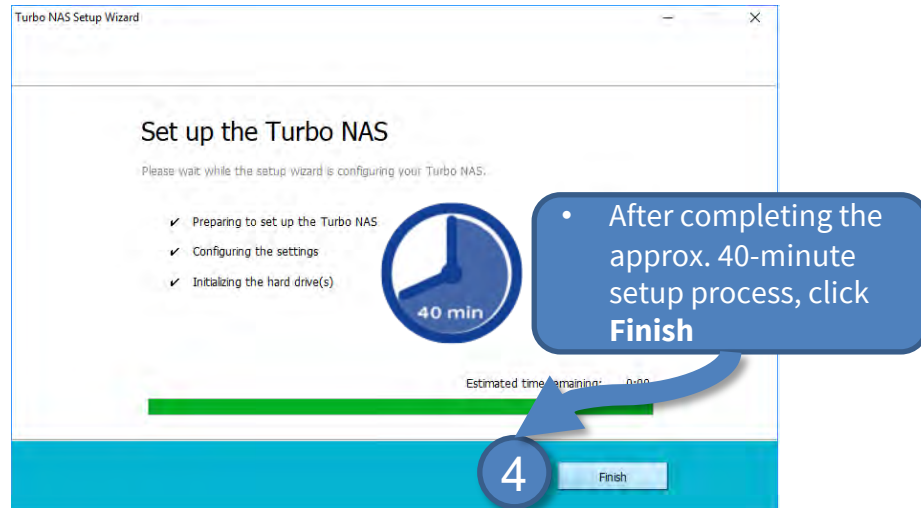
The screenshot shows the 'Quick Setup Wizard' dialog box. It contains text explaining that the wizard will help set up the NAS. There are 'Yes' and 'No' buttons. A blue callout box with a '2' points to the 'Yes' button.

- Start the **Quick Setup Wizard**



The screenshot shows the 'Set up my NAS' screen of the Turbo NAS Setup Wizard. It displays device information: Model: NAS, Server Name: NAS225AD7, IP Address: 10.0.0.52, and Firmware Version: 4.3.4. There are two buttons: 'Quick Setup' and 'Manual Setup'. A blue callout box with a '3' points to the 'Quick Setup' button.

- Select **Quick Setup**



The screenshot shows the 'Set up the Turbo NAS' screen. It includes a progress bar and a clock icon indicating a 40-minute setup time. A blue callout box with a '4' points to the 'Finish' button at the bottom right.

- After completing the approx. 40-minute setup process, click **Finish**

Step 4: Setup MOBOTIX NAS (2) update firmware if required

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The screenshot displays the Finder Pro 2.6.0 application window. The top navigation bar includes icons for Login, Network Drives, Configuration, Details, and Bookmark the device. Below this is a table listing network drives. The first entry, '2BAyNas', has its IP address '10.100.100.100' and version '4.3.4.0807mx' highlighted with red boxes. A blue callout box points to the IP address with the text 'NAS IP Address (remember!)'. Another blue callout box points to the version number with the text 'Only if a new release is available!'. The 'Tools' menu is open, showing options like Sleep, Restart Server, Shut down Server, Remote Wake Up (Wake on LAN), and 'Update Firmware', which is highlighted with a red box. A blue arrow points from the 'Update Firmware' option back to the version number in the table. In the bottom left corner, there is a purple callout box with an open book icon and the text 'Quick Guide – MOBOTIX NAS & Device Finder'.

Bookmark	Name	IP Address	Type	Server Type	Version	MAC Address	Status
	2BAyNas	10.100.100.100		NAS-251+-G	4.3.4.0807mx	24-5E-BE-22-5A-D7	

Finder Pro 2.6.0

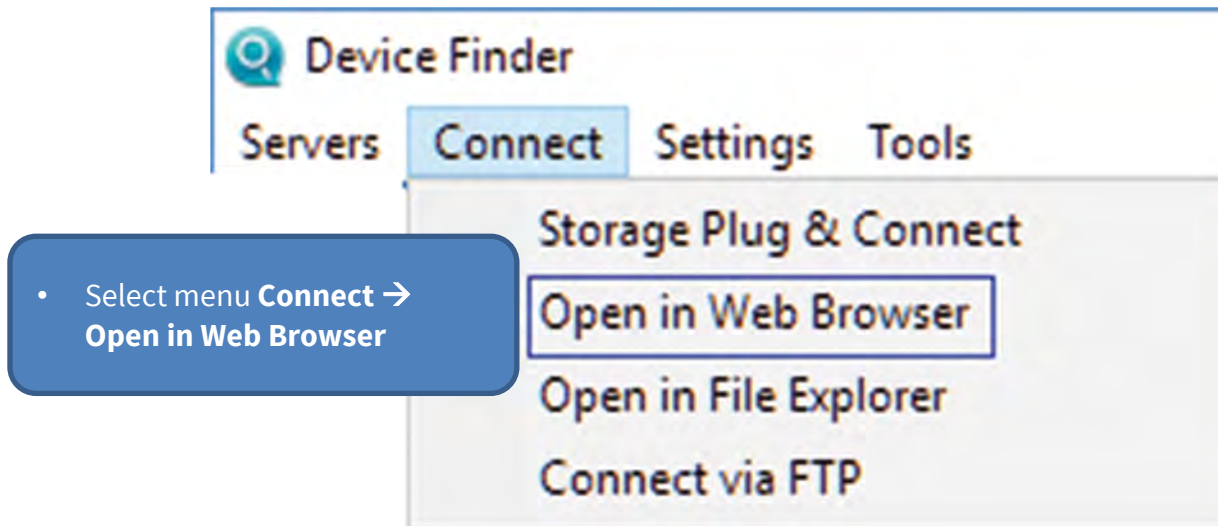
Tools

- Sleep
- Restart Server
- Shut down Server
- Remote Wake Up (Wake on LAN)
- Update Firmware

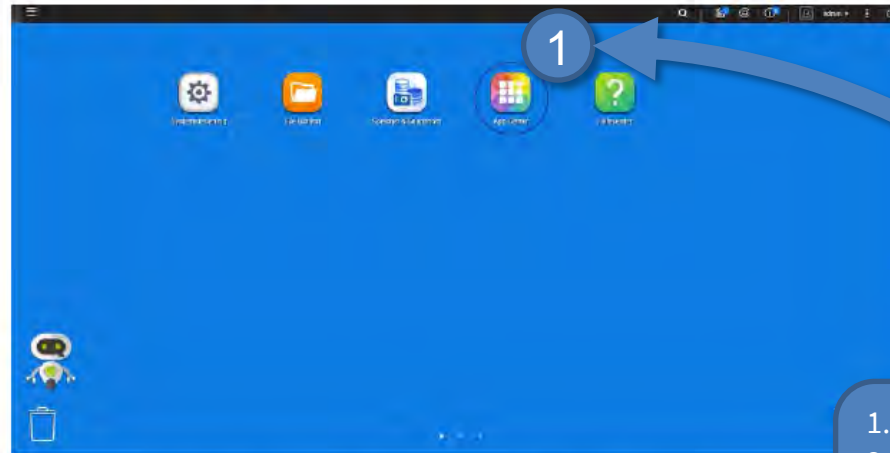
Quick Guide – MOBOTIX NAS & Device Finder

NAS IP Address (remember!)

Only if a new release is available!



Installation der Recorder-Software / Installation of the Recorder Software / Installation du logiciel d'enregistrement



Installieren Sie zuerst die Container Station App und danach die QVR Pro Software.
Install the Container Station App software and then the QVR Pro software.
Installez d'abord Container Station App et après le logiciel QVR Pro.

⚠ HINWEIS: Ein automatisches Update wird nicht unterstützt.
NOTE: The software does not support automatic updates!
REMARQUE: La mise à jour automatique n'est pas supportée.

1. Open **AppCenter**.
2. Click on the **Install Manually** icon.
3. Manually install these apps:
 - **Container Station App**.
 - **QVR Pro** software.



Step 6: Create Recording Space in QVR Pro

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IMPORTANT: Reserve extra **Recording Space** if you'd like to add MOBOTIX IoT cameras later on!

IMPORTANT: Wait until the recording space is fully allocated and **do not reboot the MOBOTIX NAS or add cameras before this task is finished!**



1

Recording Storage

 Recording Storage

Overview

Recording Space

Recording Management

Rebuild Recording Index

Advanced Settings

Recording File Explorer

Recording Space

Specify where to save recorded videos and how many days QVR Pro records normal and event streams.



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NAS & IoT Cameras

1. Select **Recording Storage**.
2. Create **Recording Space**.

+

2

Available NAS storage: 129.00 GB

Note: To manage the storage space, go to [\[Storage Manager\]](#).


Set the required size for all recording spaces and leave the **Overwrite Threshold** at its default value (95 %).

Step 7: Add Cameras in QVR (1)

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1. After the recording spaces have been completely allocated, open **Camera Settings** in QVR Pro (Recorder Software).
2. QVR Pro is only suitable for MOVE/ONVIF cameras. Therefore, make sure that no MOBOTIX IoT cameras have been selected. You can recognize MOBOTIX IoT cameras by their MAC address.



No cameras available.
Click + to start adding cameras.

Add Camera

Camera Selection

The following table lists the cameras found in this NAS network. Select the camera(s) and click Next, or use the advanced search feature to find cameras on other networks. You can also use the filter feature to only display cameras of a specific brand and model. If the camera you want to add is not on the list, click Next to manually add the camera.

Cameras	Brand	Model	IP Address	MAC Address
<input checked="" type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.192.0.173	00:03:c5:c0:00:ad
<input type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.24.0.22	00:03:c5:18:00:16
<input type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.22.176.26	00:03:c5:16:b0:1a
<input type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.22.10.71	00:03:c5:16:0a:47
<input type="checkbox"/>	ONVIF	ONVIF Cameras (Fixed Settings)	10.1.1.91	24:5E:BE:21:83:50
<input type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.22.5.108	00:03:c5:16:05:6c
<input type="checkbox"/>	ONVIF	ONVIF ProfileS Cameras	10.22.10.149	00:03:c5:16:0a:95

Cameras selected: 2, Cameras that can be selected: 14 ⓘ

Scanning 100%

Refresh

Step 1/4 Next

Important Note: Do not select any MOBOTIX IoT cameras!

Check the MAC address:

- MOBOTIX MOVE: 00:03.C5.C0.XX.XX
- MOBOTIX IoT: 00:03:C5.XX.XX.XX

Step 7: Add Cameras in QVR (2)

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3. In the next window, check whether MOBOTIX NAS has recognized the desired camera brand and IP address. Continue by adding any missing camera data, such as:
- **Name:** Enter a unique description (used in QVR Pro only).
 - **Account/Password:** Access data must correspond to an ONVIF admin user for ONVIF S cameras.

Add Camera

Edit Camera Selection

The following table lists the cameras selected in Step 1. From here, you can edit the camera connection information or manually add other cameras. You can also select multiple cameras for batch editing tasks such as deleting, logging in, and testing.

Preview	Name	Brand	Model	IP Address	Port	RTSP Port	Account	Password	Action
<input type="checkbox"/>	ONVIF_ONVIF	ONVIF	ONVIF ProfileS Cameras	10.1.6.14	80	554			<input type="checkbox"/> Test

Cameras selected: 1, Cameras that can be added: 0

Cancel

Step 2/4 Back Next

1 Enter **Name** (unique description).

2 Enter **Account** and **Password**.

3 Click **Test** button for each camera.

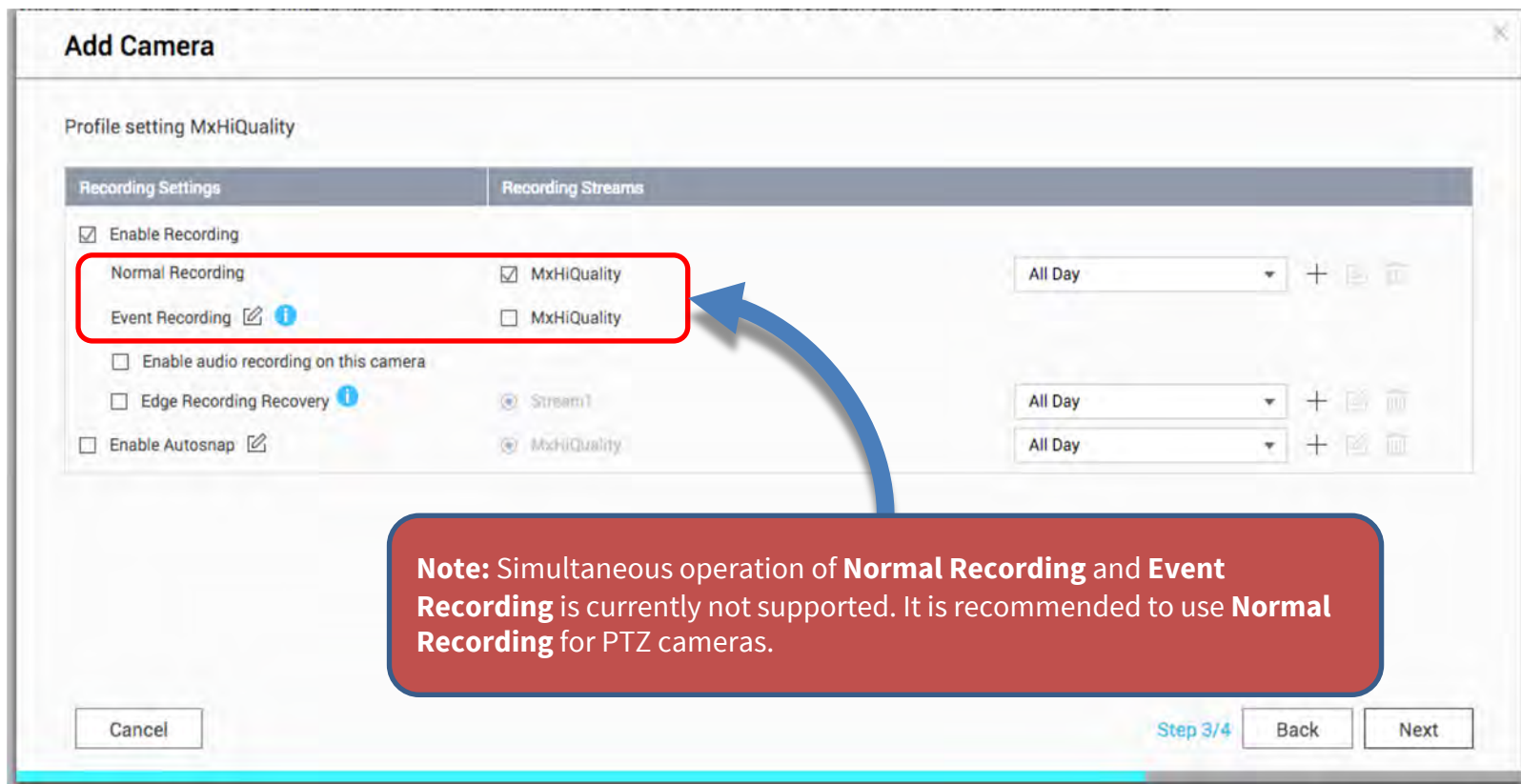
Note: The **Preview** image will not appear in this step.

Step 7: Add Cameras in QVR (3)

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4. Define the recording settings (normal = continuous recording, event recording = event controlled) in this step.

Note: When the camera is added, two profiles (MxHiQuality for HiRes and MxLoQuality for LoRes) are automatically created in MxMC. The values set in MxMC for MxHiQuality are automatically transferred to the MOBOTIX NAS.



Add Camera

Profile setting MxHiQuality

Recording Settings	Recording Streams
<input checked="" type="checkbox"/> Enable Recording	
<input checked="" type="checkbox"/> Normal Recording	<input checked="" type="checkbox"/> MxHiQuality
<input type="checkbox"/> Event Recording	<input type="checkbox"/> MxHiQuality
<input type="checkbox"/> Enable audio recording on this camera	
<input type="checkbox"/> Edge Recording Recovery	<input checked="" type="checkbox"/> Stream1
<input type="checkbox"/> Enable Autosnap	<input checked="" type="checkbox"/> MxHiQuality

All Day +

All Day +

All Day +

Note: Simultaneous operation of **Normal Recording** and **Event Recording** is currently not supported. It is recommended to use **Normal Recording** for PTZ cameras.

Cancel

Step 3/4 Back Next

Step 8: Finish MOBOTIX NAS Setup

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1. Finish and then close the wizard.
2. In the **Camera Settings** window, check that all cameras have been added to the QVR Pro software.
3. Wait about 5 min until the MOBOTIX NAS has **connected to the new cameras**.

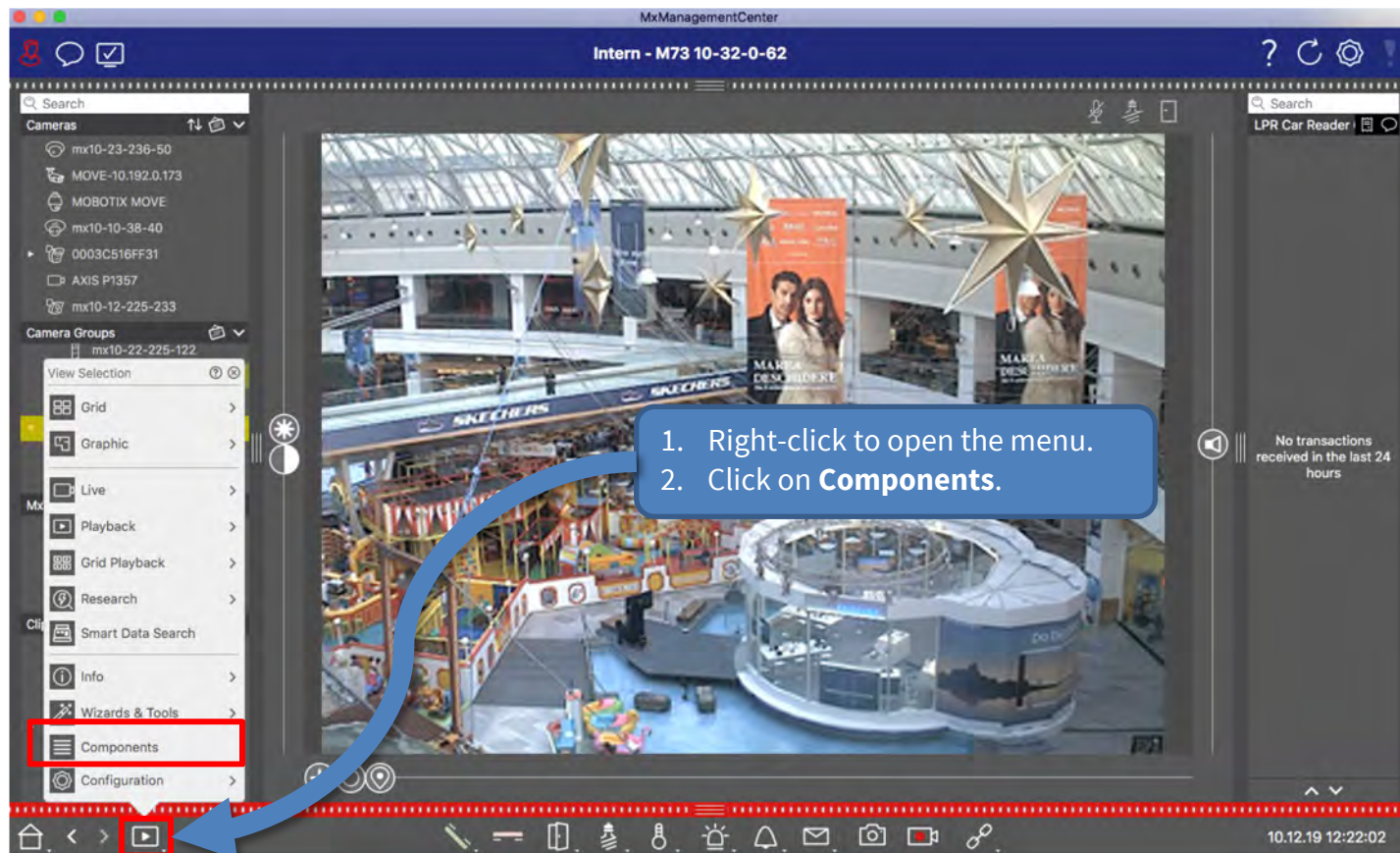
The screenshot shows the 'Camera Settings' window in QVR Pro software. The window title is 'Camera Settings'. Below the title bar, there is a header section with buttons 'Add', 'Edit', and 'Delete', and status indicators: 'Total channels:8', 'Used channels:1', and 'Available channels:7'. A table lists the cameras. The first camera, 'MxMove_Vandal', is highlighted with a red box. The table has columns: Channel, Camera Name, Status, Recording Settings, Brand, Camera Model, Network Info, and Action. The 'Status' column shows 'Connecting' in orange. The 'Recording Settings' column shows 'Stream1: Recording stopped (No connection)' and 'Frame rate: 0, Bit rate: 0 bps' in orange. A blue arrow points down to a second screenshot of the same window, where the 'Status' is now 'Connected' with a green checkmark. The 'Recording Settings' column shows 'Stream1: Recording' and 'Frame rate: 20, Bit rate: 6.2 Mbps' in blue. The 'Network Info' column shows 'Camera IP: 10.192.0.67' and 'Network interface: Auto'.

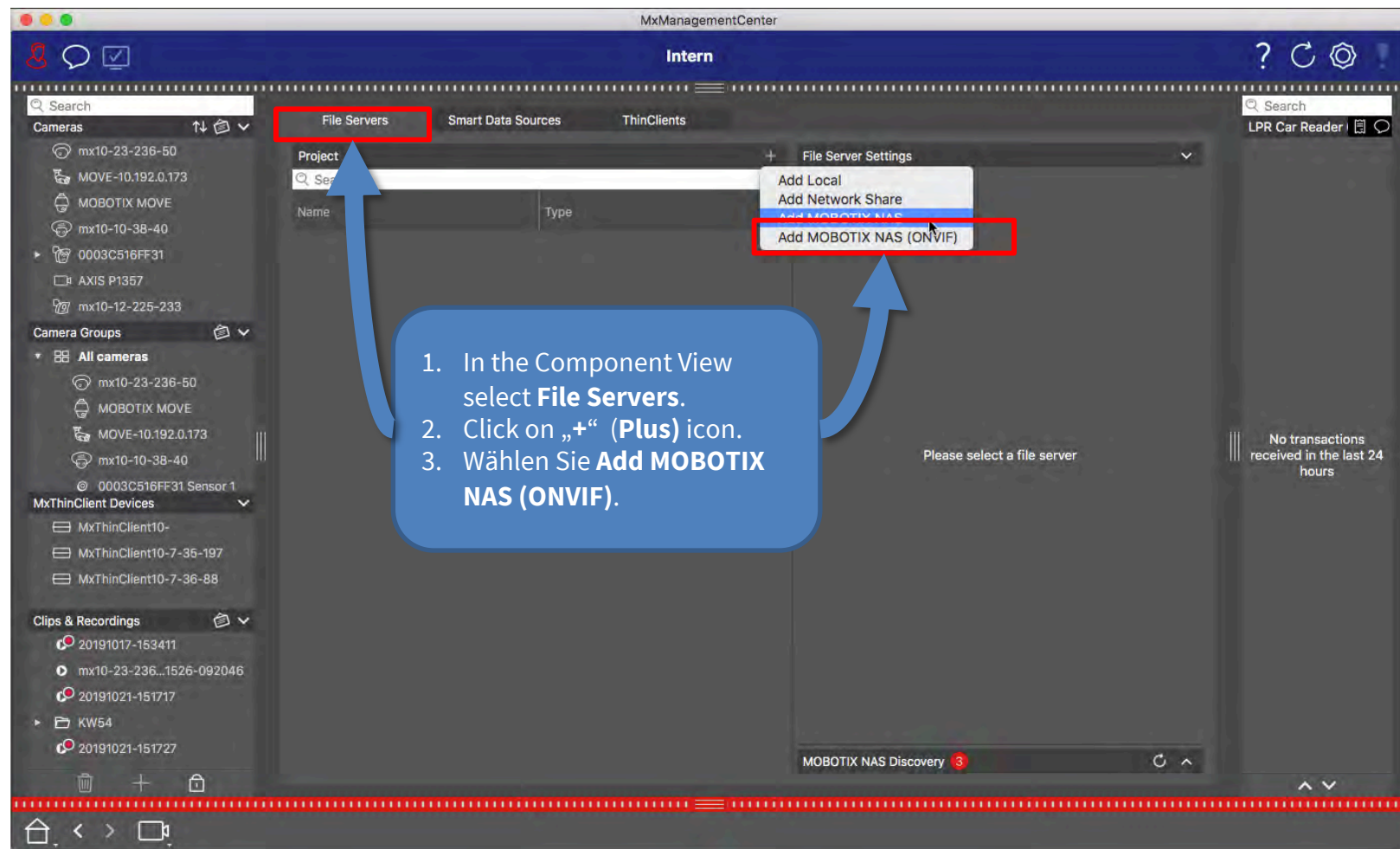
Channel	Camera Name	Status	Recording Settings	Brand	Camera Model	Network Info	Action
Channel 1	MxMove_Vandal	Connecting	Stream1: Recording stopped (No connection) Frame rate: 0, Bit rate: 0 bps	ONVIF	ONVIF ProfileS Cameras	Camera IP: 10.192.4... Network interface: Auto	[Edit] [Refresh] [Delete] [Share]

Channel	Camera Name	Status	Recording Settings	Brand	Camera Model	Network Info	Action
Channel 1	MxMove_Vandal	Connected	Stream1: Recording Frame rate: 20, Bit rate: 6.2 Mbps	ONVIF	ONVIF ProfileS Cameras	Camera IP: 10.192.0.67 Network interface: Auto	[Edit] [Refresh] [Delete] [Share]

Step 9: Assign Recording Paths in MxManagementCenter (1)

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The screenshot shows the MxManagementCenter interface. On the left, a sidebar lists cameras and groups. The main area displays a table of devices. The 'MOVE Recorder' device is highlighted with a red box. To the right, the 'Dateiserver-Einstellungen' panel is open, showing fields for Type, IP address, username, and password. A blue callout box with numbered steps 1-6 provides instructions for configuring the recording path.

1. Select Type **MOBOTIX NAS (ONVIF)**.

2. Enter MOBOTIX NAS IP Address.

3. Enter user name and password.

4. Click on **Test**.

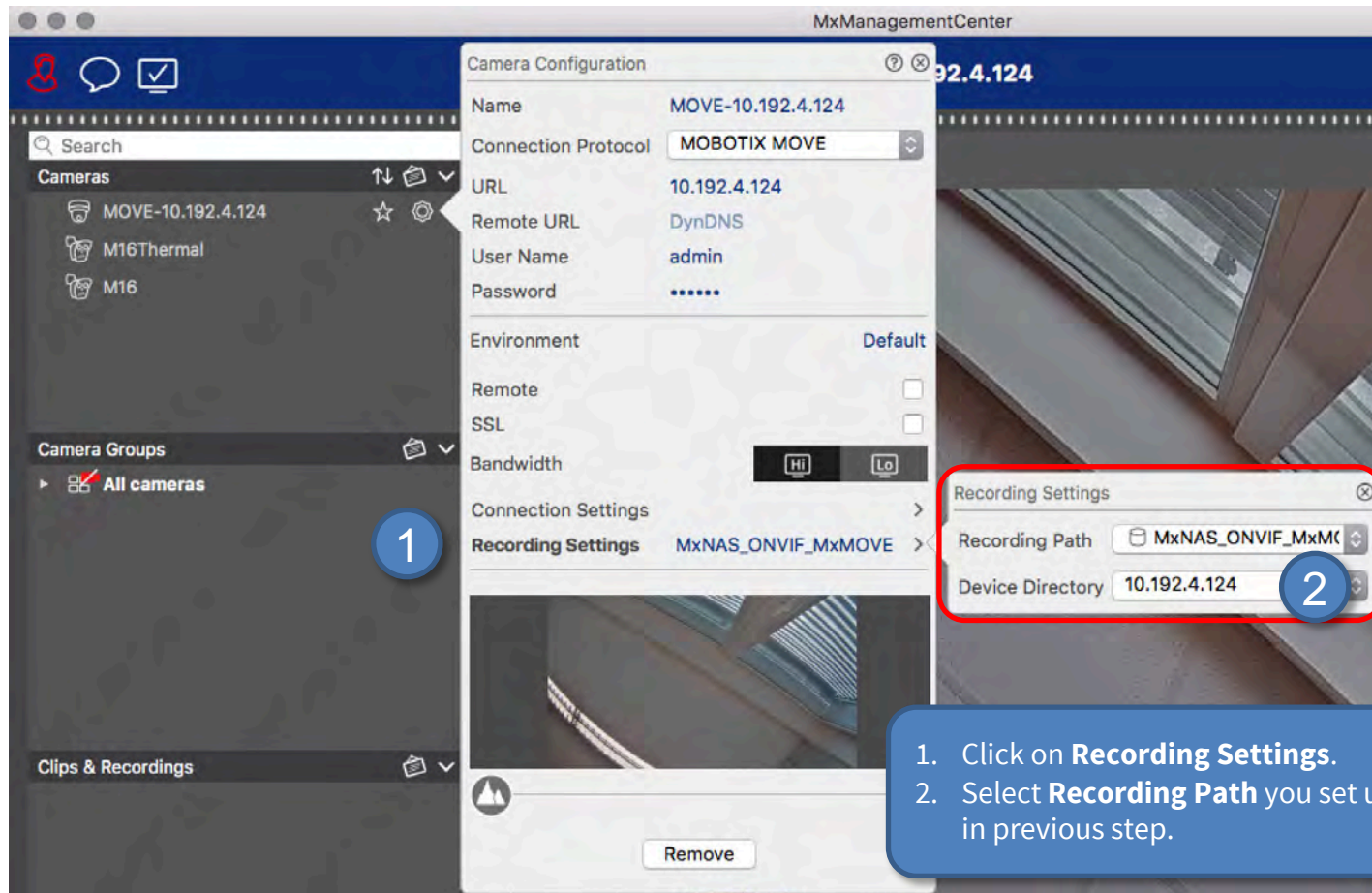
5. Click on **Apply**.

6. Click on **OK**.

Step 10: Set up MxMC Recording Settings for Each Camera

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1. In the **Recording Settings** of MxManagementCenter, select the corresponding **Recording Path** (MOBOTIX NAS). Then make sure that the correct camera IP is specified under **Device Directory**.



2. You can now play back the camera recordings in MxManagementCenter.

The screenshot shows the MxManagementCenter playback interface. The main video window displays a camera feed of a desk with a toolbox. A blue callout box labeled "Search by Date and Time" points to a search bar containing the text "Mi. 30.01.19 17:15:23". Other blue callout boxes point to various controls: "Playback (1x Speed)" points to the play button, "Mark Images" points to the mark icon, "Export" points to the export icon, and "Snapshot" points to the snapshot icon. A red callout box labeled "Not Supported" points to a group of icons in the bottom toolbar, which are highlighted with a red rectangle. The interface includes a left sidebar with a search bar and a list of cameras, and a bottom status bar with the date and time.

MxManagementCenter

Playback - MOVE-10.192.0.67

Suchen

Kameras

- mx10-17-43-112
- mx10-18-201-13
- mx10-22-45-48
- MOVE-1...2.0.67**
- MOBO...MOVE
- MOBOTIX

Kameragruppen

- Alle Kameras**

Clips & Aufzeichn

Search by Date and Time

Mi. 30.01.19 17:15:23

Playback (1x Speed)

Mark Images

Export

Snapshot

Not Supported

BeyondHumanVision

MOBOTIX

BeyondHumanVision

MOBOTIX

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