


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

4 MxManagementCenter

- Assign recording paths
- Assign cameras to recording paths

3 NAS Web Interface

- Install apps
 - Container Station
 - QVR Pro (Recording App)
- QVR Pro
 - Configure recording space
 - Add cameras (MOVE/ONVIF only)

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:

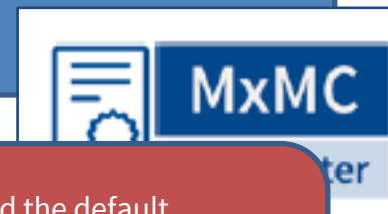
- Support > Download Center > Documentation > White Lists

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

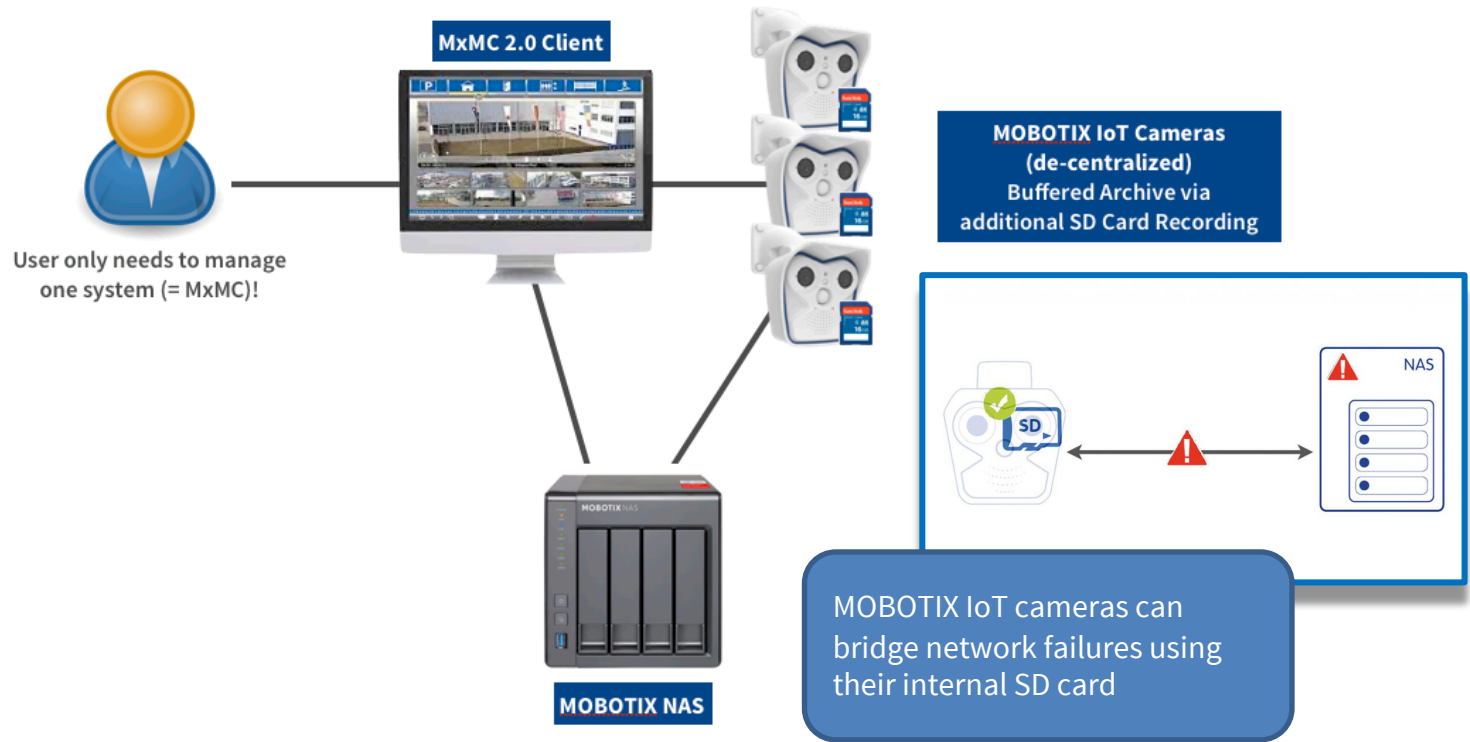


Password Security!

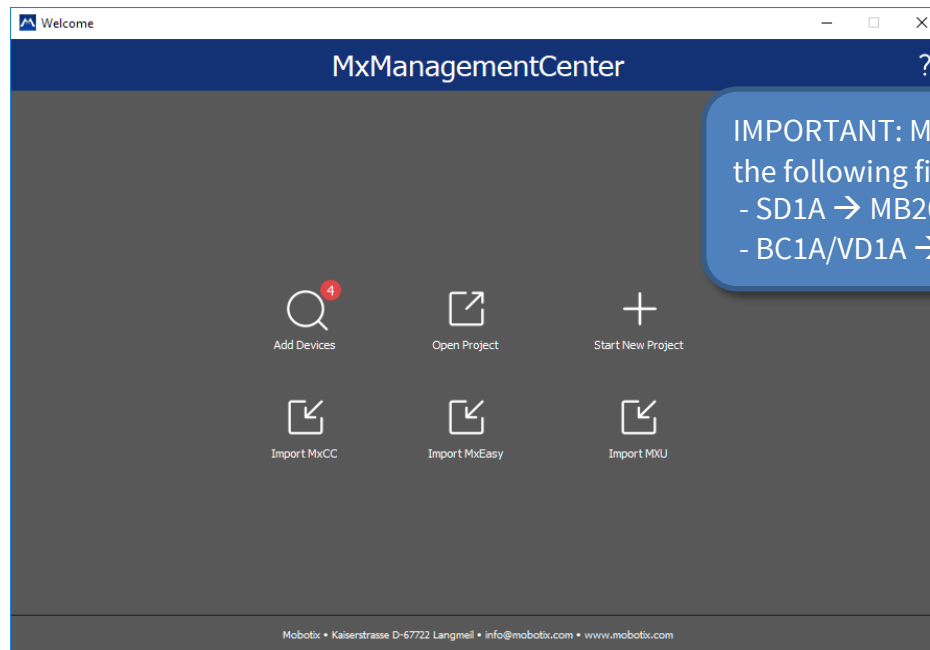
- **NEVER use the default access privileges!** Always make sure that you have changed the default passwords to strong passwords (numbers, lower/upper case letters, special characters)!
- The **default user** of the MOBOTIX NAS is “**admin**” and the **password** is “**admin**”.
- The **default user**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



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.

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:

Frames per Second:

Resolution:

Image Quality:

Create MxProfiles

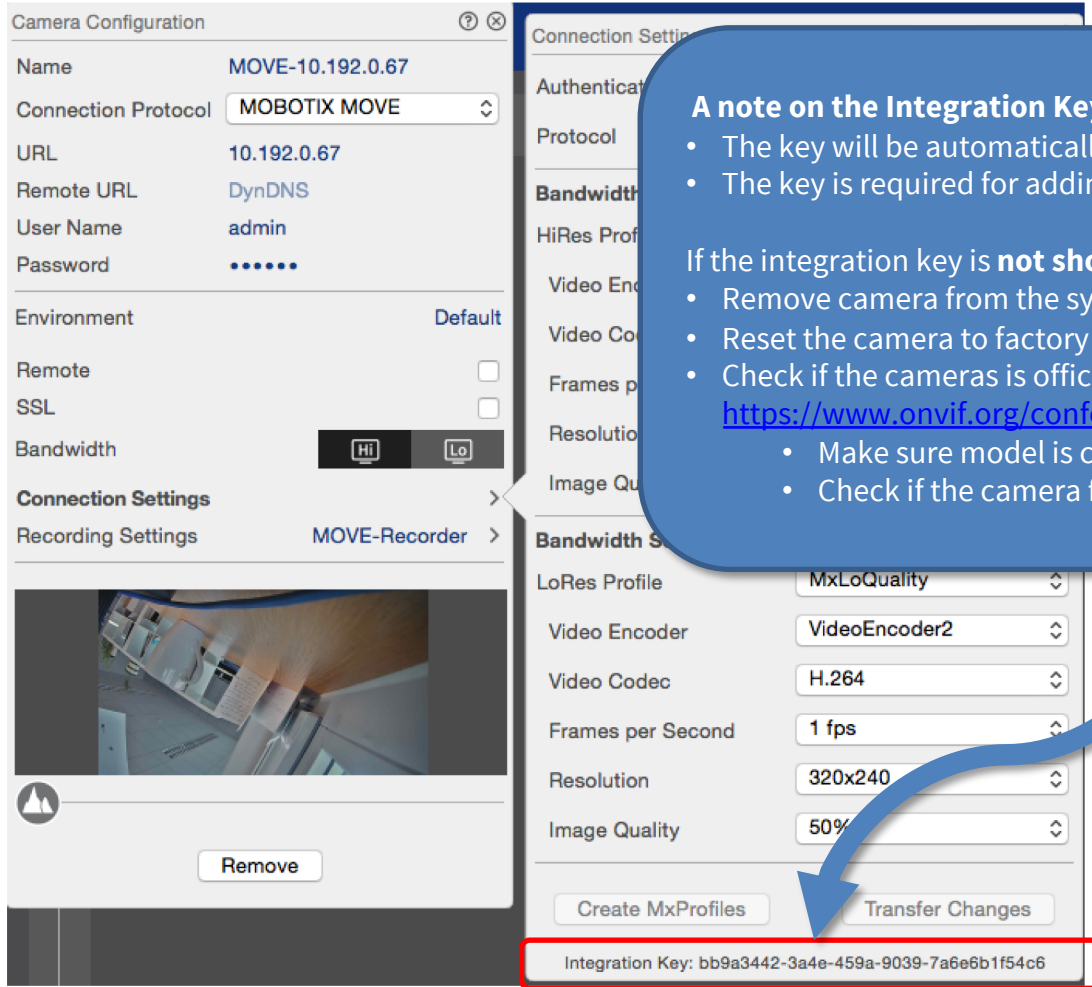
Integration Key: bb9a3442-3a4e-459a-9039-7a6e6b1f54c6

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.

A 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.



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)

Device Finder

Servers Connect Settings Tools

Login Network Drives Configuration Details Resource Monitor Bookmarks

Bookmark	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

Quick Setup Wizard

NAS 'NAS225AD7' (10.0.254.100.100) has not been detected. Would you like to use the Quick Setup Wizard to set up the server now?

The Quick Setup Wizard will help you setup the NAS.

Don't ask me again. I'd like to setup later.

Yes No

- Start the **Quick Setup Wizard**

Turbo NAS Setup Wizard

Set up my NAS

Please select "Quick Setup" or "Manual Setup" to start the initialization of the server.

Model: NAS
Server Name: NAS225AD7
IP Address: 10.0.0.52
Firmware Version: 4.3.4
 This NAS is for business use only.

Quick Setup Manual Setup

Quit

- Select **Quick Setup**

Turbo NAS Setup Wizard

Set up the Turbo NAS

Please wait while the setup wizard is configuring your Turbo NAS.

- ✓ Preparing to set up the Turbo NAS
- ✓ Configuring the settings
- ✓ Initializing the hard drive(s)

40 min

Estimated time remaining: 00:00

Finish

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

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

Finder Pro 2.6.0

Finder PRO

Login Network Drives Configuration Details Bookmark the device

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	SHTP

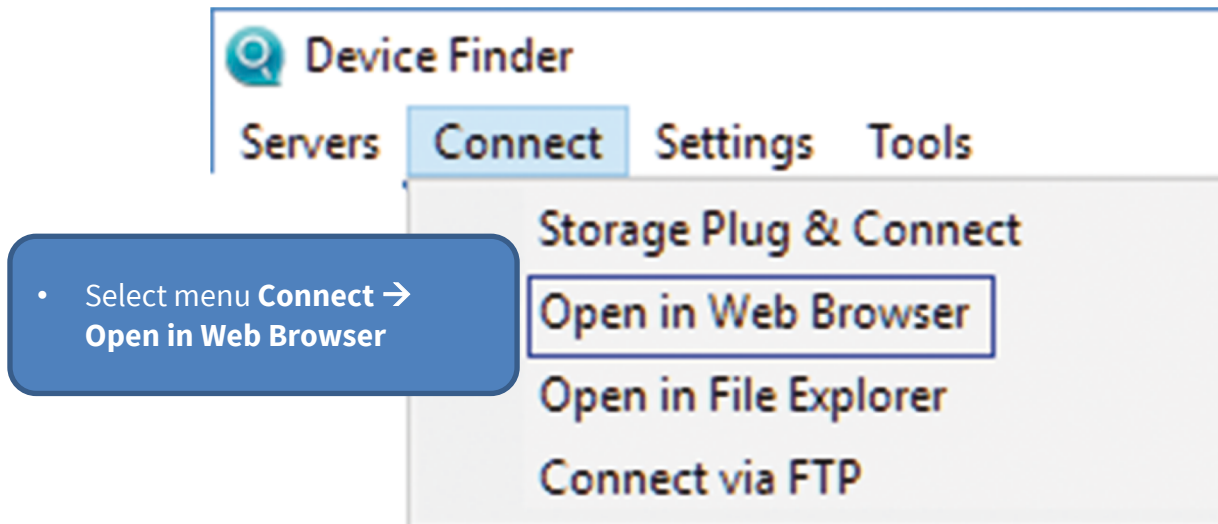
NAS IP Address (remember!)

Only if a new release is available!

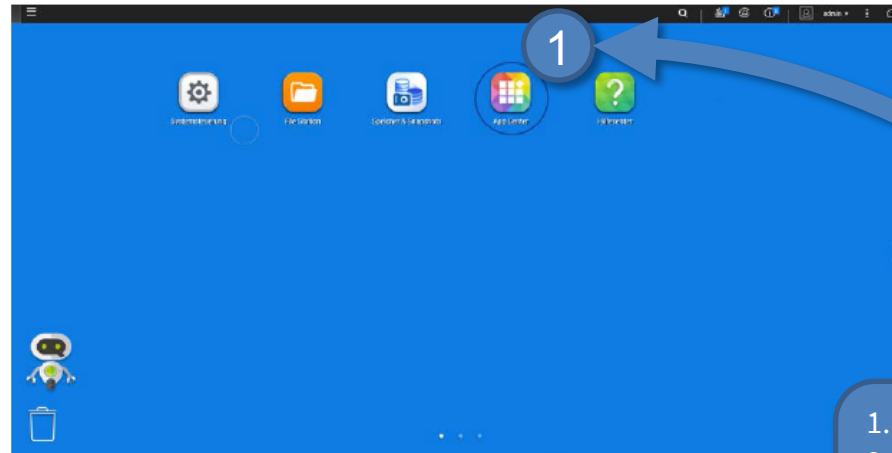
Finder Pro Servers Connect Settings Tools Help Window Search

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

Quick Guide - MOBOTIX NAS & Device Finder



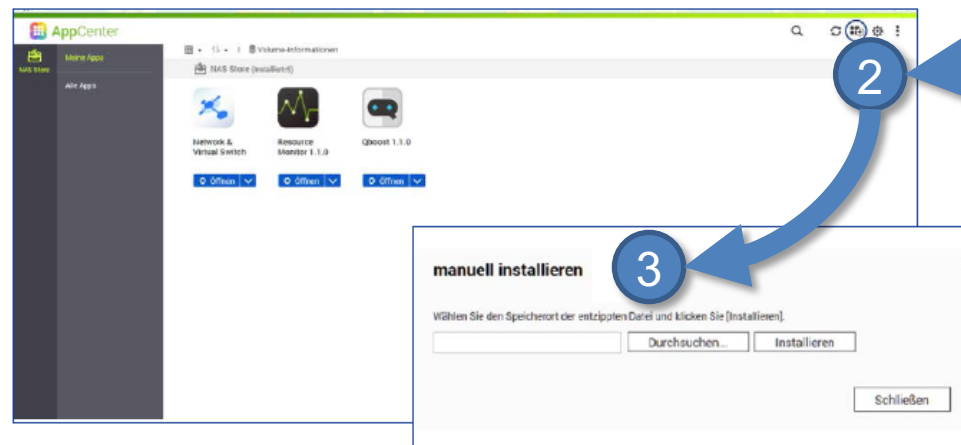
Installation der Recorder-Software / Installation of the Recorder Software / Installation du logiciel d'enregistrement



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

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

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

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

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.



Quick Guide – MOBOTIX
NAS & IoT Cameras

2 +

Available NAS storage: 129.00 GB

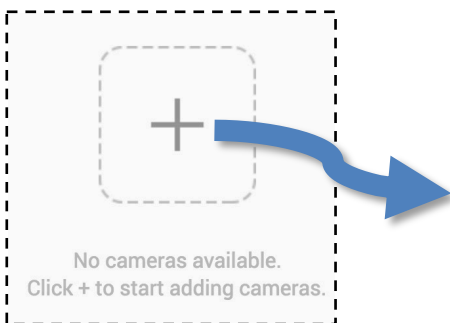
Note: To manage the storage space, go to [\[Storage Manager\]](#).

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

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



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. To use the full functionality of Premium MOBOTIX IoT cameras (such as SD card failover and MxPEG+), MxFFS with buffered archives must be used. Therefore, make sure that no MOBOTIX IoT cameras have been selected. You can recognize MOBOTIX IoT cameras by their MAC address. If MOBOTIX IoT cameras have also been selected, deselect them.



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

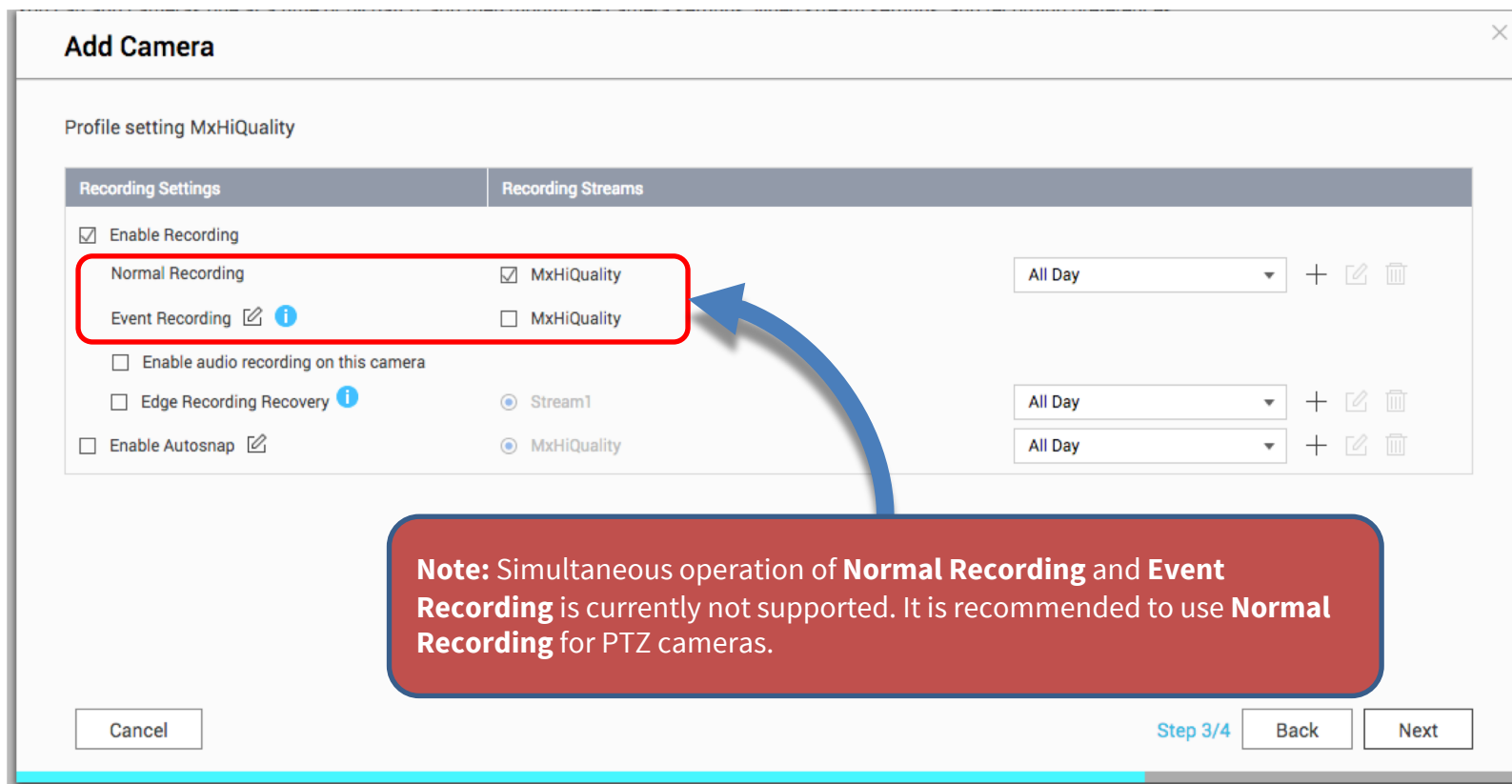
Step 1/4 Next

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





- 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 checked="" type="radio"/> Stream1
<input type="checkbox"/> Edge Recording Recovery 	<input checked="" type="radio"/> MxHiQuality
<input type="checkbox"/> Enable Autosnap 	

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

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 some time (~5 min) until the MOBOTIX NAS has **connected to the new cameras**.

The screenshot displays the 'Camera Settings' window. At the top, there are buttons for 'Add', 'Edit', and 'Delete', along with channel statistics: 'Total channels:8', 'Used channels:1', and 'Available channels:7'. Below this is a table with columns: Channel, Camera Name, Status, Recording Settings, Brand, Camera Model, Network Info, and Action. The table contains one entry for 'MxMove_Vandal' in 'Channel 1'. A red box highlights the 'Status' and 'Recording Settings' columns. In the top screenshot, the status is 'Connecting' and recording is 'Recording stopped (No connection)'. A blue arrow points down to a second screenshot where the status is 'Connected' (indicated by a green checkmark) and recording is 'Recording' at '20' frames per second and '6.2 Mbps'. The network info shows 'Camera IP: 10.192.4...' in the top view and 'Camera IP: 10.192.0.67' in the bottom view.

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]



The screenshot displays the MxManagementCenter interface. The main window shows a camera feed of a mall interior with a carousel and promotional banners. A blue callout box with a white border contains the following instructions:

1. Right-click to open the menu.
2. Click on **Components**.

The interface includes a left sidebar with a search bar and a list of cameras and camera groups. The 'Components' menu item is highlighted with a red box. A red dashed line highlights the bottom toolbar, where a play button icon is also highlighted with a red box. A blue arrow points from the callout box to the play button icon. The top status bar shows 'Intern - M73 10-32-0-62'. The right sidebar shows a search bar and a message: 'No transactions received in the last 24 hours'. The bottom right corner displays the date and time: '10.12.19 12:22:02'.

The screenshot displays the MxManagementCenter interface. The 'File Servers' tab is selected and highlighted with a red box. A plus icon is clicked, opening a dropdown menu with options: 'Add Local', 'Add Network Share', 'Add MOBOTIX NAS', and 'Add MOBOTIX NAS (ONVIF)'. The 'Add MOBOTIX NAS (ONVIF)' option is highlighted with a red box. A blue callout box contains the following instructions:

1. In the Component View select **File Servers**.
2. Click on „+“ (**Plus**) icon.
3. Wählen Sie **Add MOBOTIX NAS (ONVIF)**.

The interface also shows a search bar, a list of cameras and camera groups on the left, and a status bar at the bottom indicating 'MOBOTIX NAS Discovery 3'.

MxManagementCenter

Alle Kameras

Suchen

Kameras

mx10-23-236-50

MOVE-10.192.0.173

MOBOTIX MOVE

mx10-10-38-40

0003C516FF31

Kameragruppen

Alle Kameras

mx10-...36-50

MOBOTIX MOVE

MOVE-1...0.173

mx10-10-38-40

MxThinClient-Geräte

MxThinClient10-

MxThinC...-35-197

Clips & Aufzeichnung

20191021-151717

KW54

20191021-151727

Dateiserver

Smart Data-Quellen

ThinClients

Projekt

Suchen

Name	Typ
MxNAS_IoT	MOBOTIX NAS
MOVE Recorder	MOBOTIX NAS (ONVIF)

Dateiserver-Einstellungen

als Aufzeichnungsserver ausgewählt werden.

Typ

MOBOTIX NAS (ONVIF)

Lokal: Verwendet einen Ordner auf diesem Computer oder Netzwerk-Freigabe: Der Zugriff erfolgt direkt auf einen freigegebenen Ordner auf dem Dateiserver.
MOBOTIX NAS: Der Zugriff erfolgt direkt auf einen freigegebenen Ordner auf dem Dateiserver.
MOBOTIX NAS (ONVIF): Greift direkt auf die ONVIF-Aufzeichnungsspeicher zu.

Dateiserver (IP)

10.100.100.100

IP-Adresse oder DNS-Name des Dateiservers.

Benutzername

admin

Passwort

.....

Zugangsdaten für den Dateiserver.

Experteneinstellungen verwenden (ONVIF-Zugriff)

Basic settings for first setup of your MOBOTIX NAS

<http://10.100.100.100:8080/cgi-bin/>

MOBOTIX NAS-Erkennung

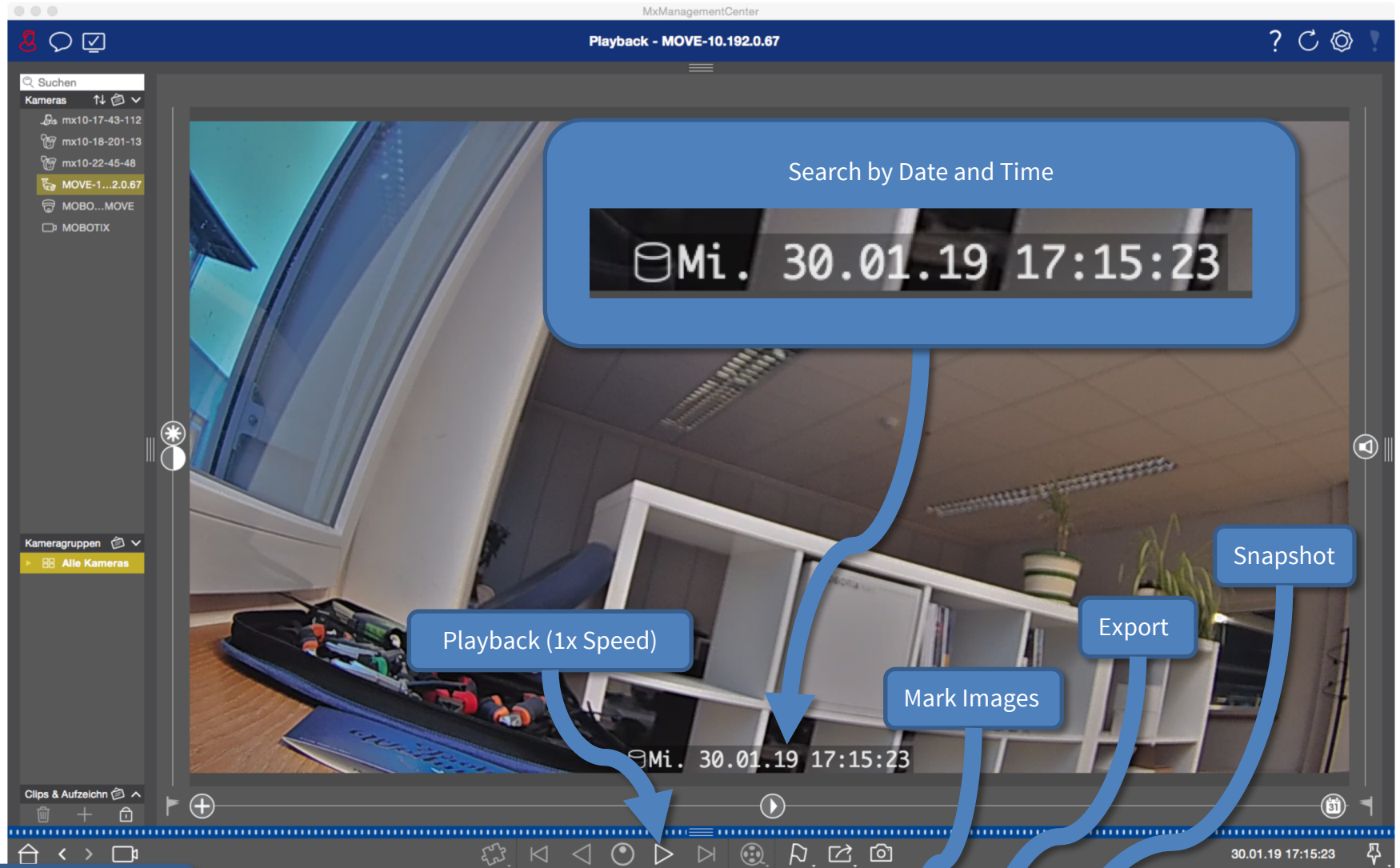
1. Select Type **MOBOTIX NAS (ONVIF)**.
2. Enter MOBOTIX NAS IP Address.
3. Enter user name and password.
4. Click on **Test**.
5. Click on **Apply**.
6. Click on **OK**.

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**.

The screenshot displays the MxManagementCenter interface. On the left, a sidebar shows a list of cameras: MOVE-10.192.4.124, M16Thermal, and M16. Below this is a 'Camera Groups' section with 'All cameras' selected. A blue circle with the number '1' is positioned over the 'Recording Settings' option in the sidebar. The main area shows the 'Camera Configuration' dialog for the camera 'MOVE-10.192.4.124'. The 'Recording Settings' section is expanded, showing 'Recording Path' set to 'MxNAS_ONVIF_MxMC' and 'Device Directory' set to '10.192.4.124'. A red box highlights these two fields, with a blue circle and the number '2' next to the 'Device Directory' dropdown. A blue callout box at the bottom right contains the following instructions:

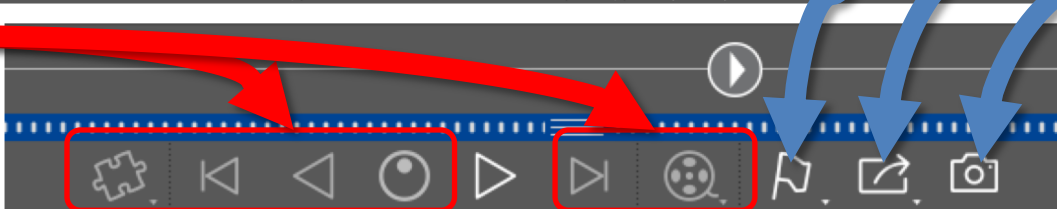
1. Click on **Recording Settings**.
2. Select **Recording Path** you set up in previous step.

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



Not Supported

BeyondHumanVision



MOBOTIX

BeyondHumanVision

MOBOTIX

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