Quick Guide – MOBOTIX NAS & MOVE/ONVIF Cameras

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

BeyondHumanVision

MOBOTIX

General Information (1)

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

General Information (2)

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).

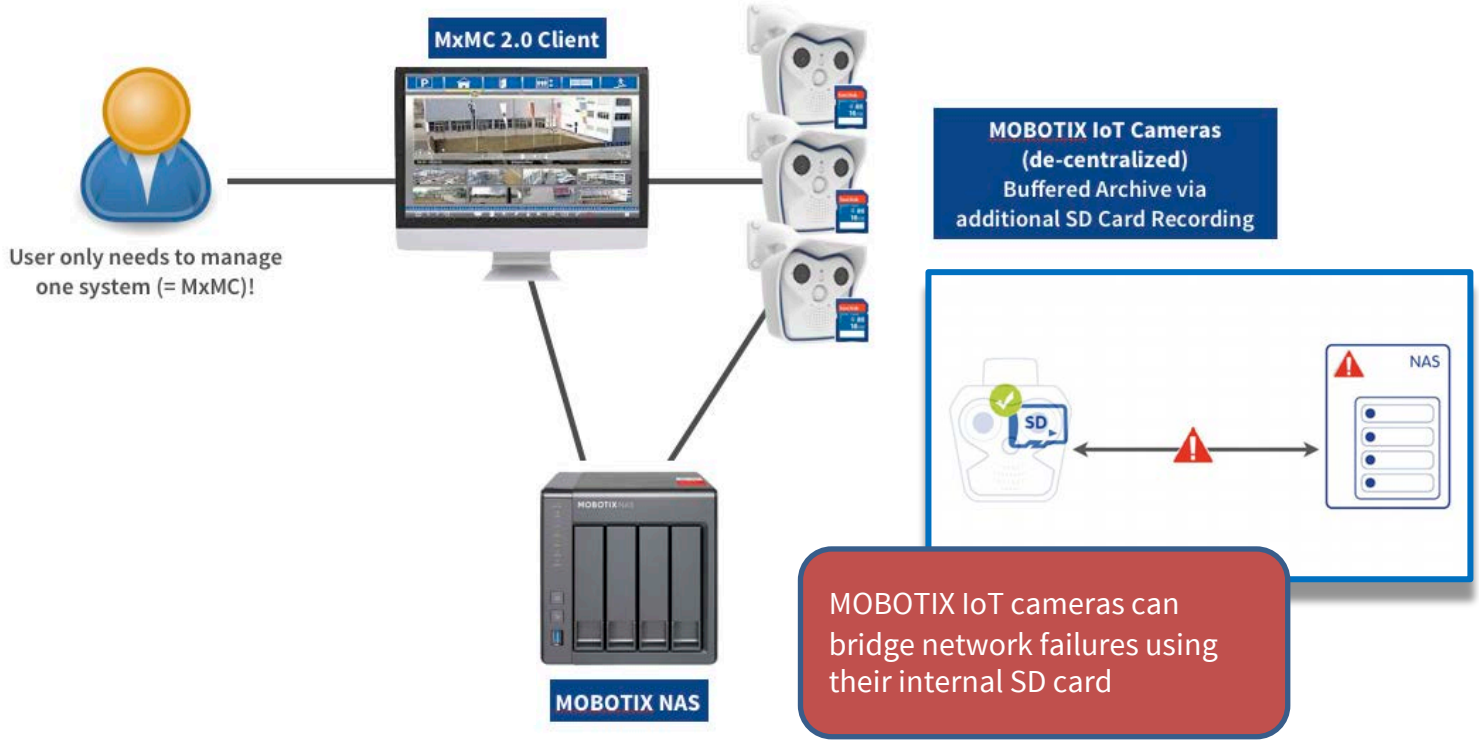
For more information on licensing models, please read the **Compact Guide MxMC 2.0** from the MOBOTIX website www.mobotix.com:
- Support > Download Center > Documentation > Brochures & Guides
- Only one Starter License per MxMC required to enable H.264

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**”.

Motivation

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

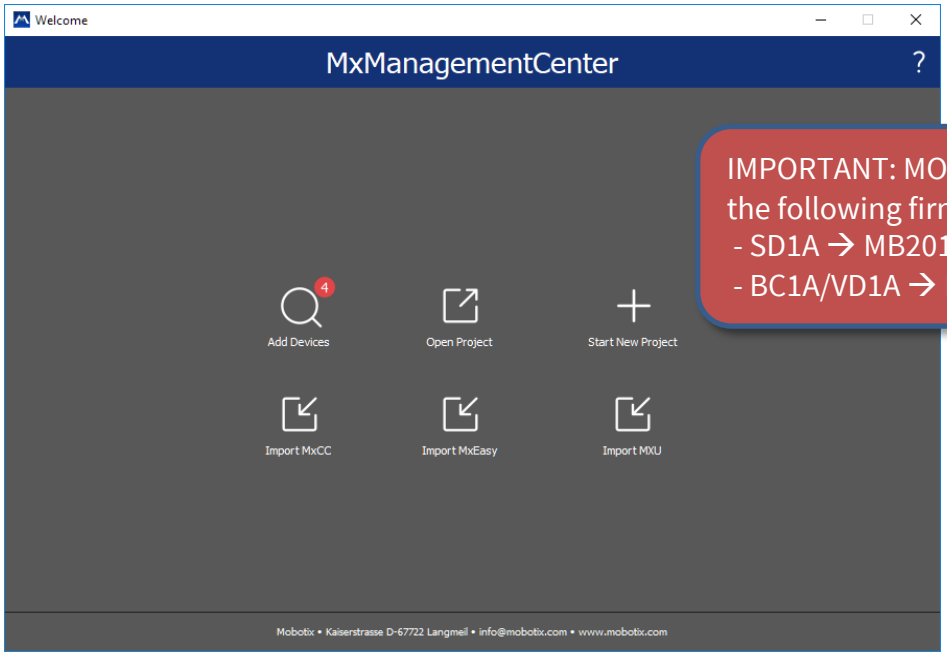
The **MOBOTIX NAS QVRProServer** recording software is required for recording from **MOBOTIX Move-Kameras bzw. ONVIF-Kameras** on the NAS. For most efficient configuration of camera settings, use the **Advanced Configuration** feature of MxManagementCenter.



Step 1 – Add ONVIF S Cameras to MxManagementCenter

1. Start **MxManagementCenter**.

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

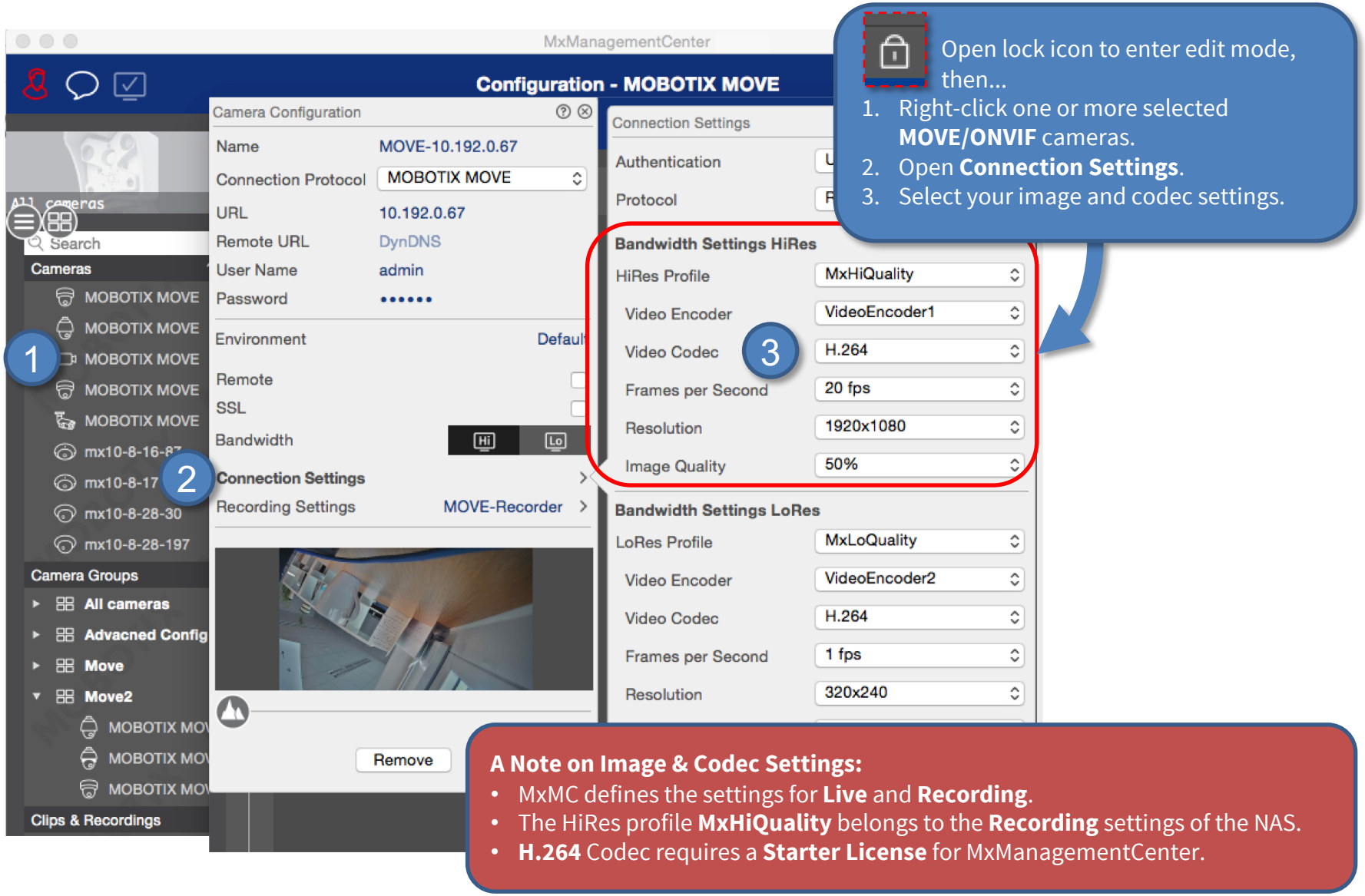


IMPORTANT: MOBOTIX MOVE cameras require the following firmware version (or newer) :
- SD1A → MB20181025RS
- BC1A/VD1A → MB20181025RP

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



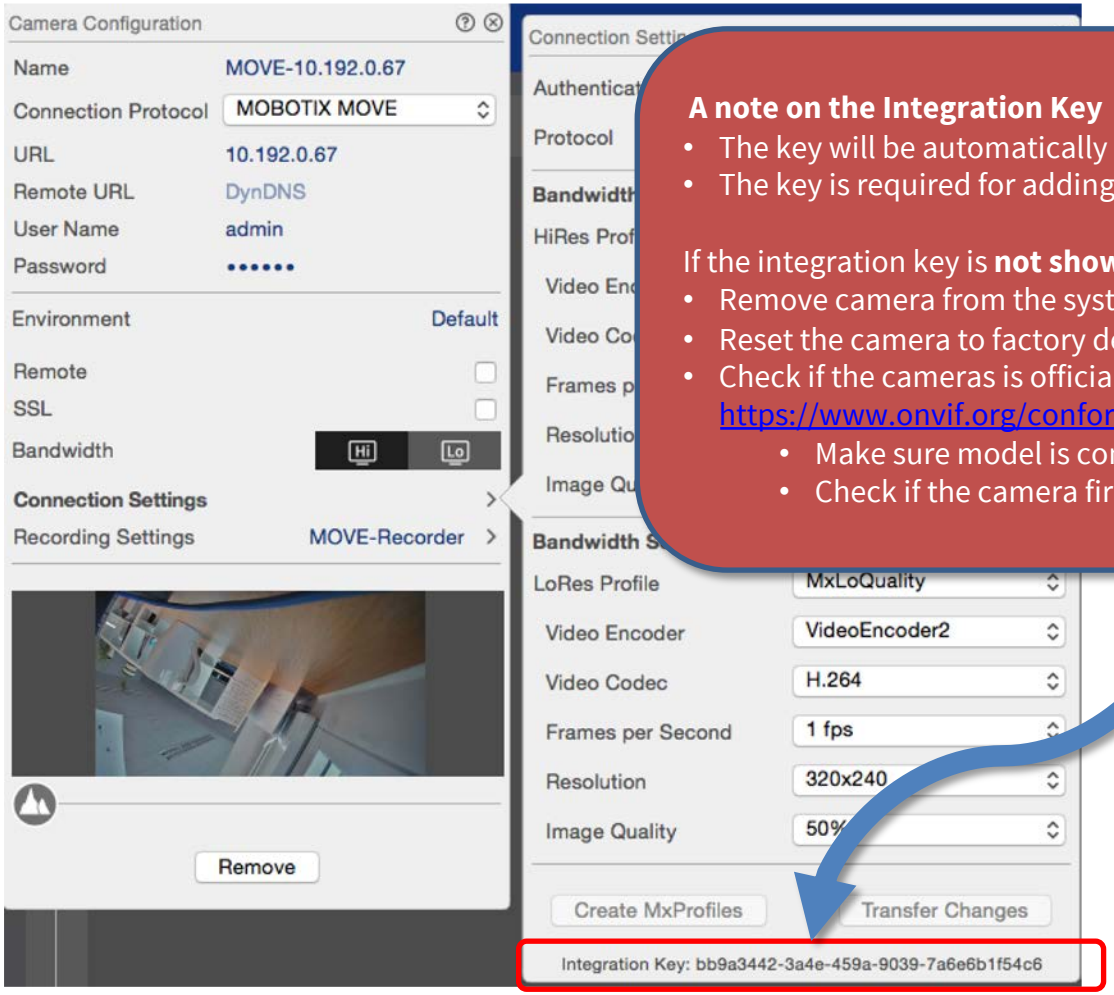
Open lock icon to enter edit mode, then...

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.

Step 3 – Check the Integration Key



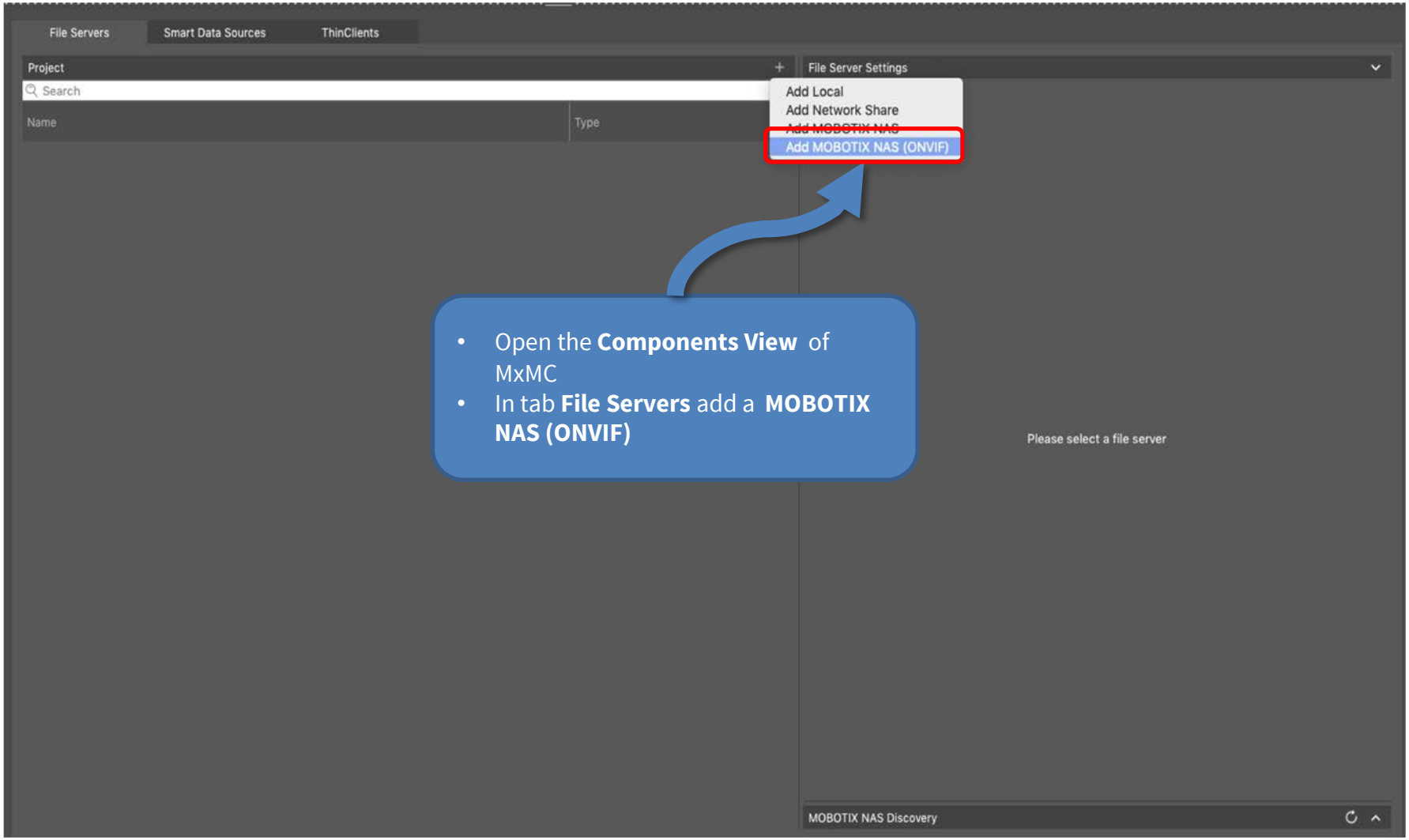
A note on the Integration Key

- 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:

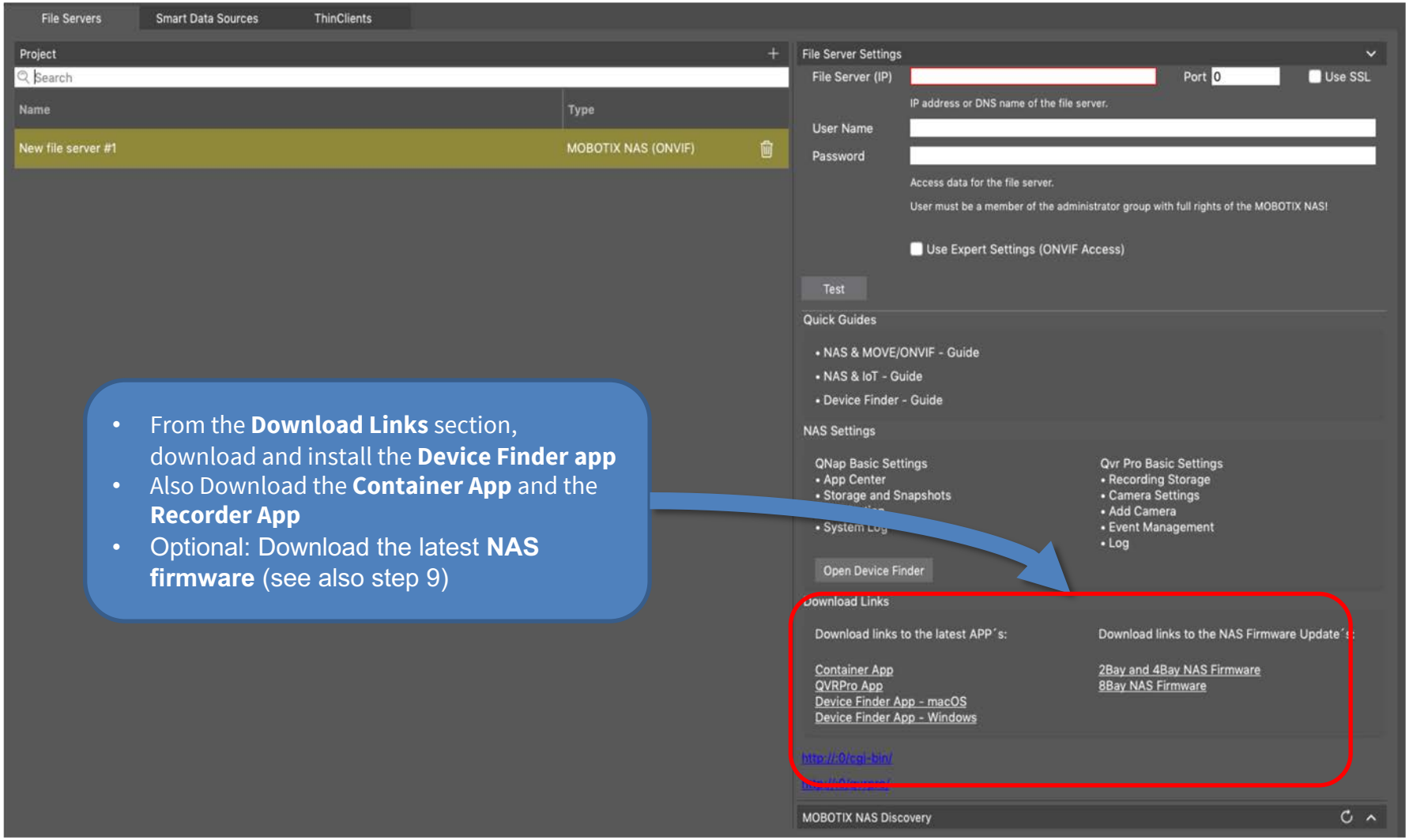
- Remove camera from the system and add it again!
- Reset the camera to factory defaults and add the camera again.
- Check if the cameras is officially registered as an ONVIF S client at https://www.onvif.org/conformant-products/
  - Make sure model is conforming (using exact model name).
  - Check if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

Step 4: Adding NAS in MxManagementCenter (1)



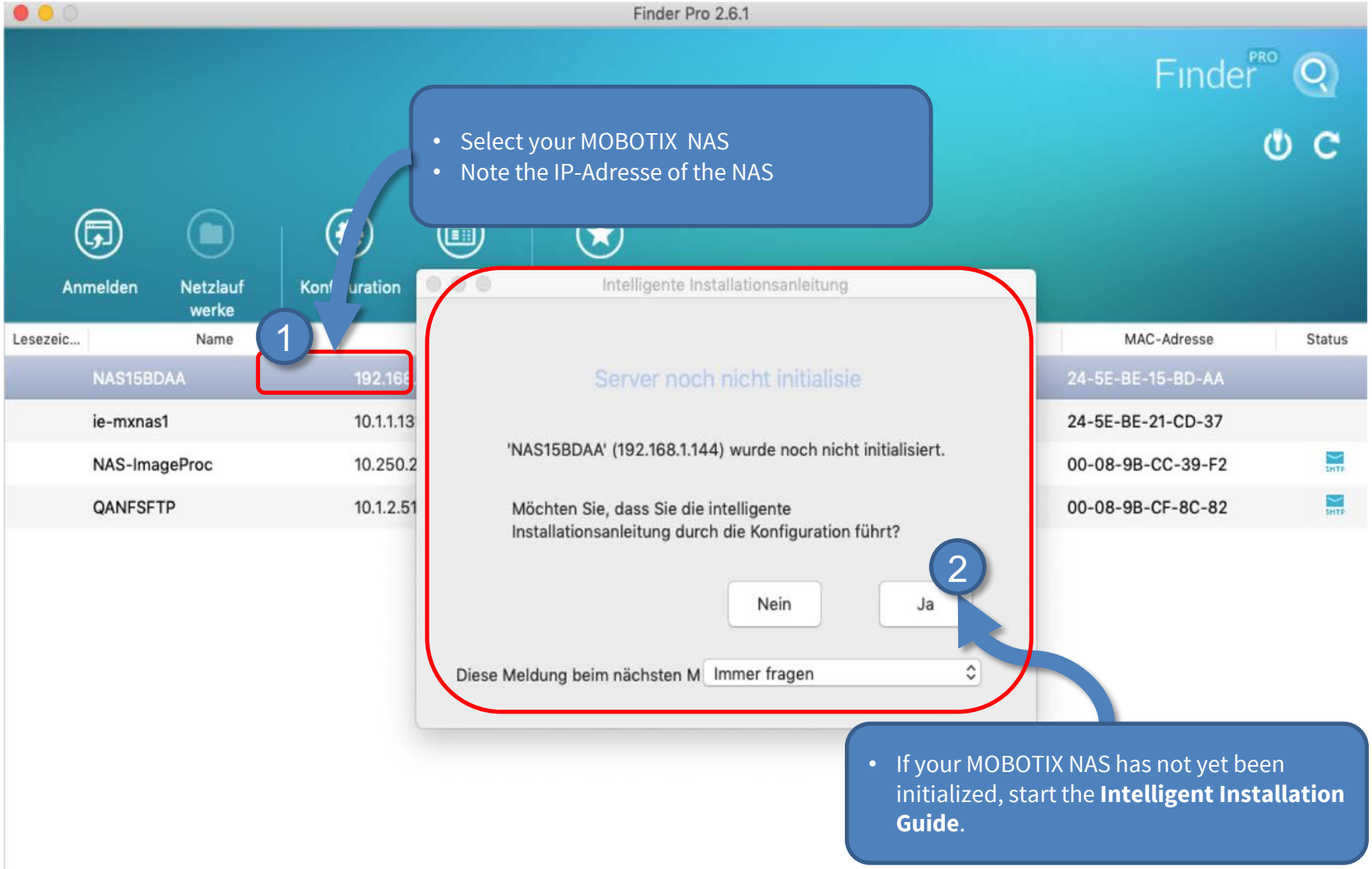
- Open the **Components View** of MxMC
- In tab **File Servers** add a **MOBOTIX NAS (ONVIF)**

Step 4: Adding NAS in MxManagementCenter (2)

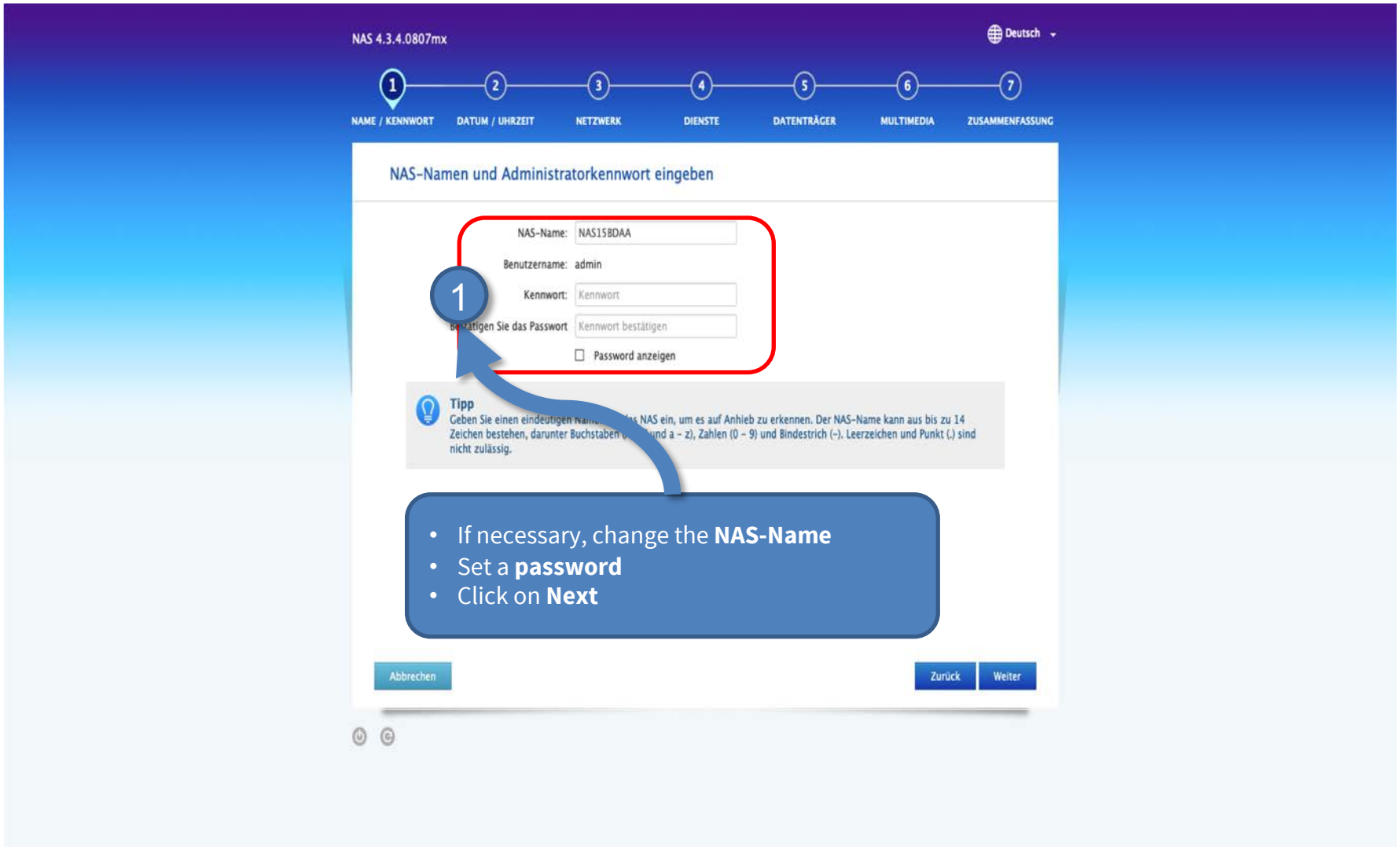


- From the **Download Links** section, download and install the **Device Finder app**
- Also Download the **Container App** and the **Recorder App**
- Optional: Download the latest **NAS firmware** (see also step 9)

Step 5: Device Finder

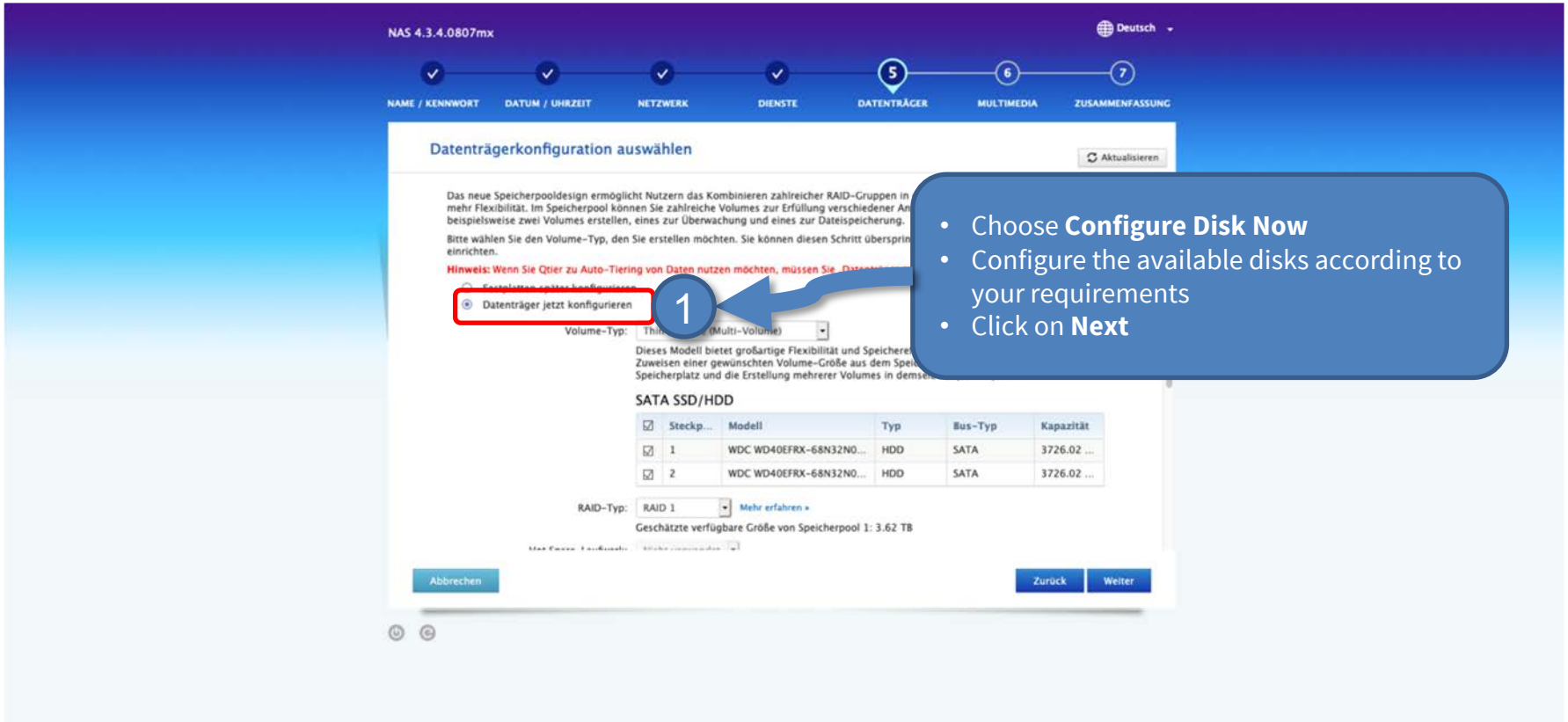


Step 6: Initially configure the NAS (1) - Set the access data



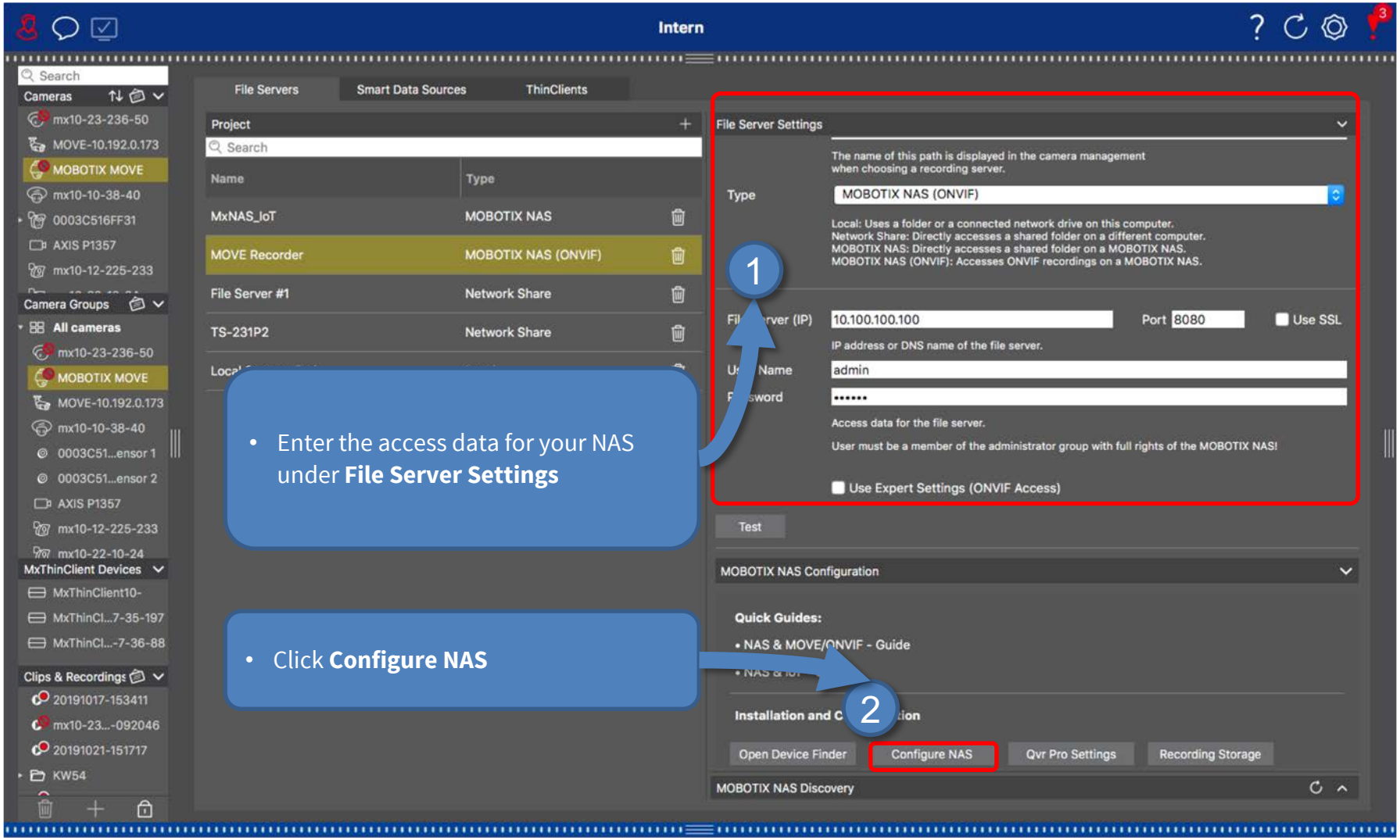
Step 6: Initially configure the NAS (2) – Optionally configure hard disks

Be sure to configure the data carriers!
Otherwise, errors may occur during the installation of apps**.**

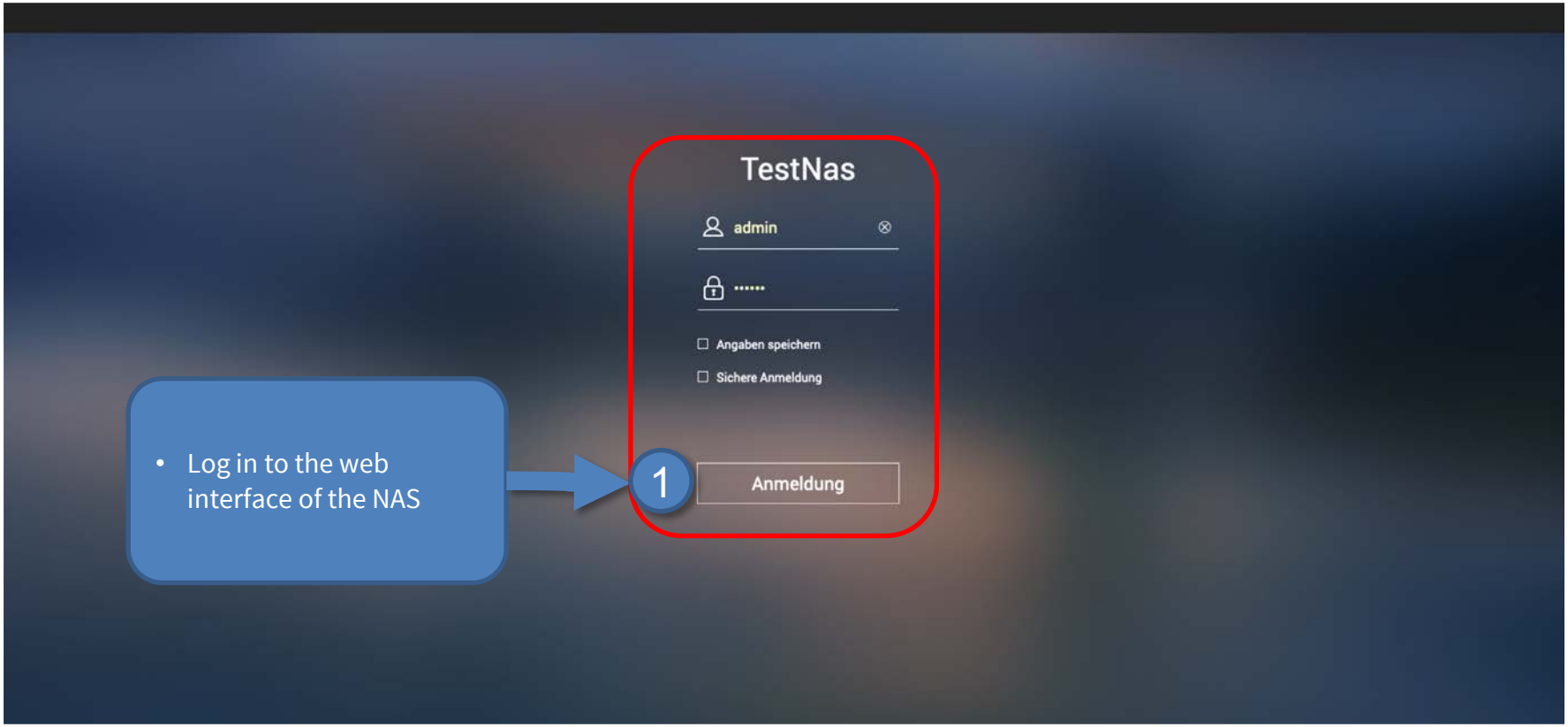


- Choose **Configure Disk Now**
- Configure the available disks according to your requirements
- Click on **Next**

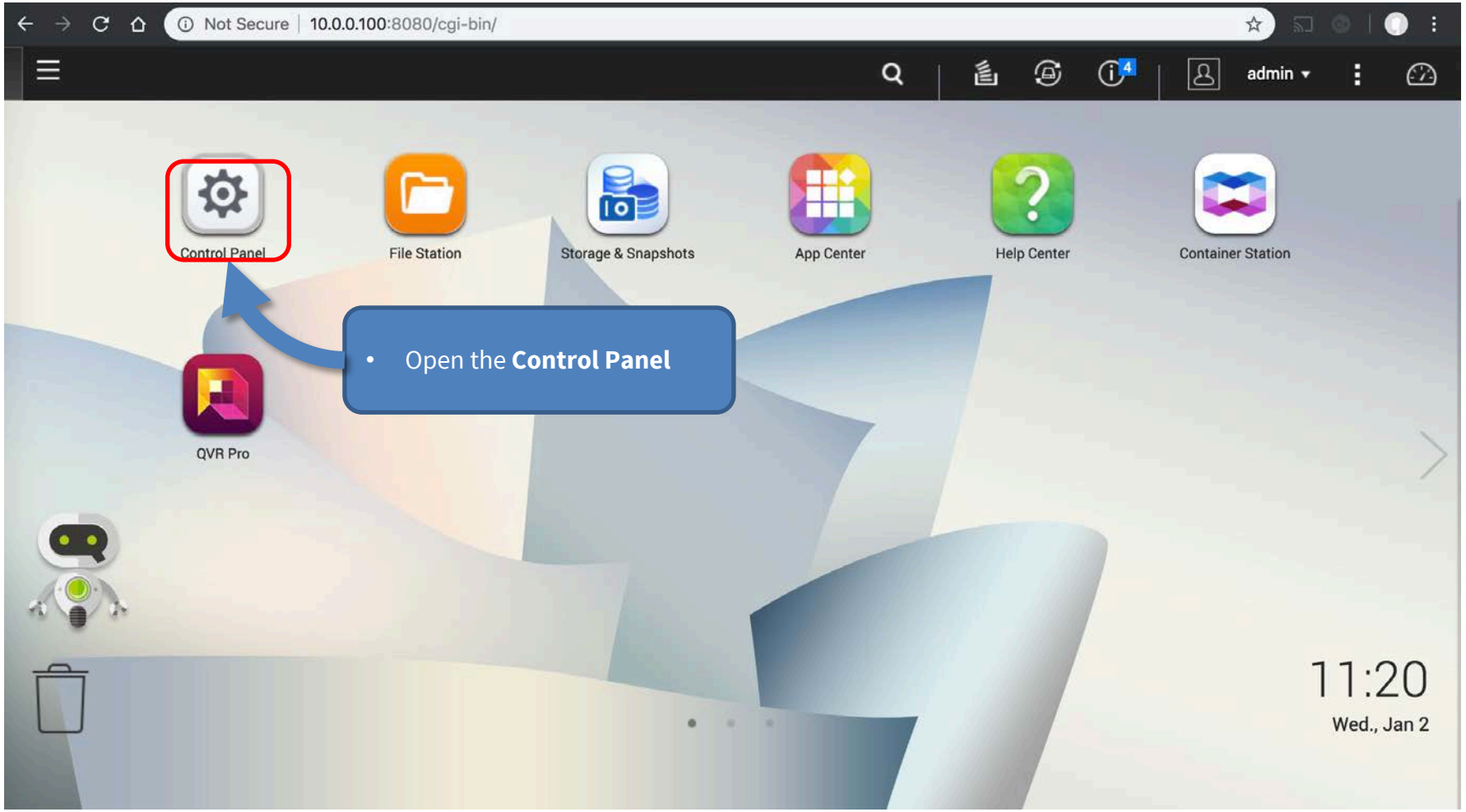
Step 7: Setting up the NAS in the MxManagementCenter



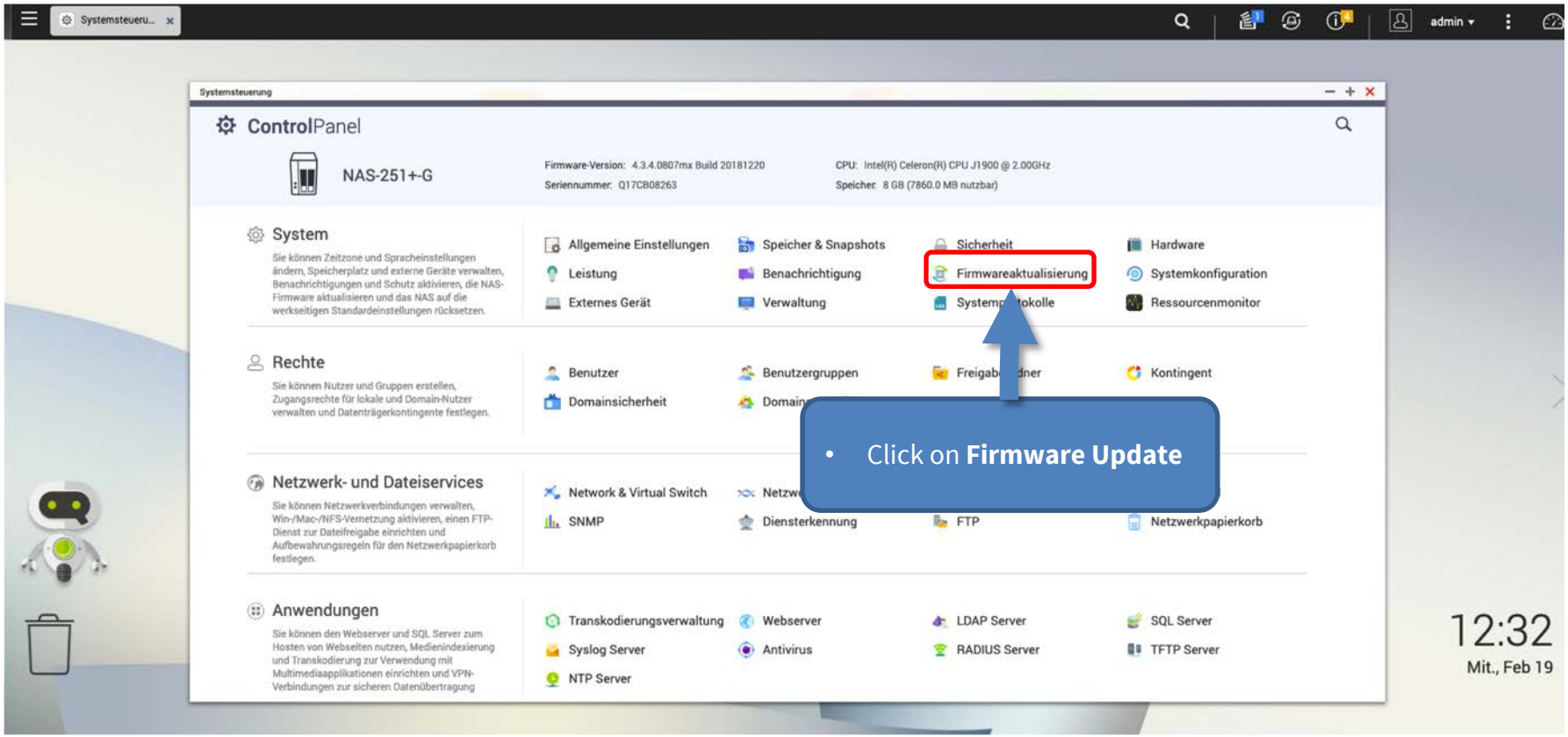
Step 8: Login to NAS Web Interface



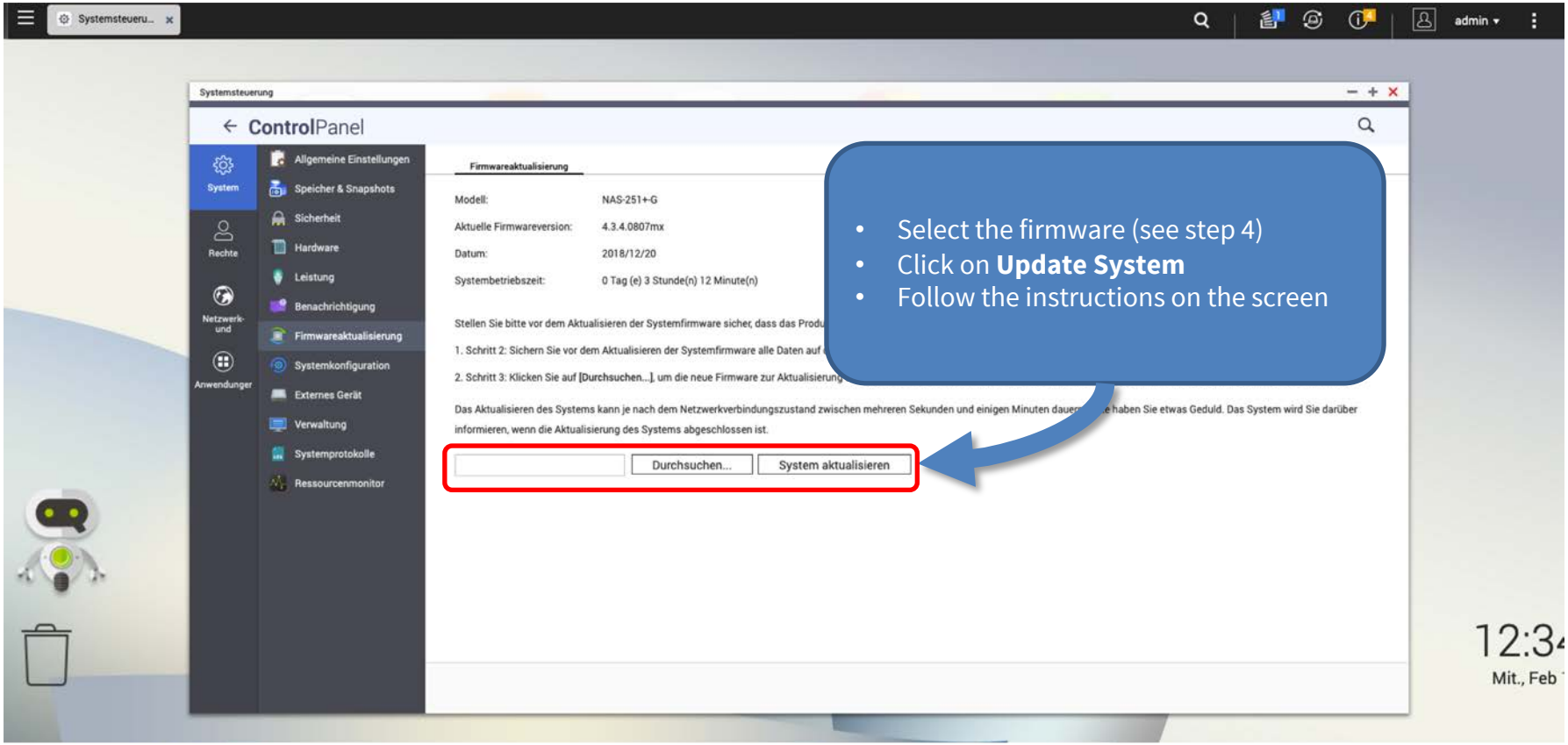
Step 9: optionally update firmware (1)



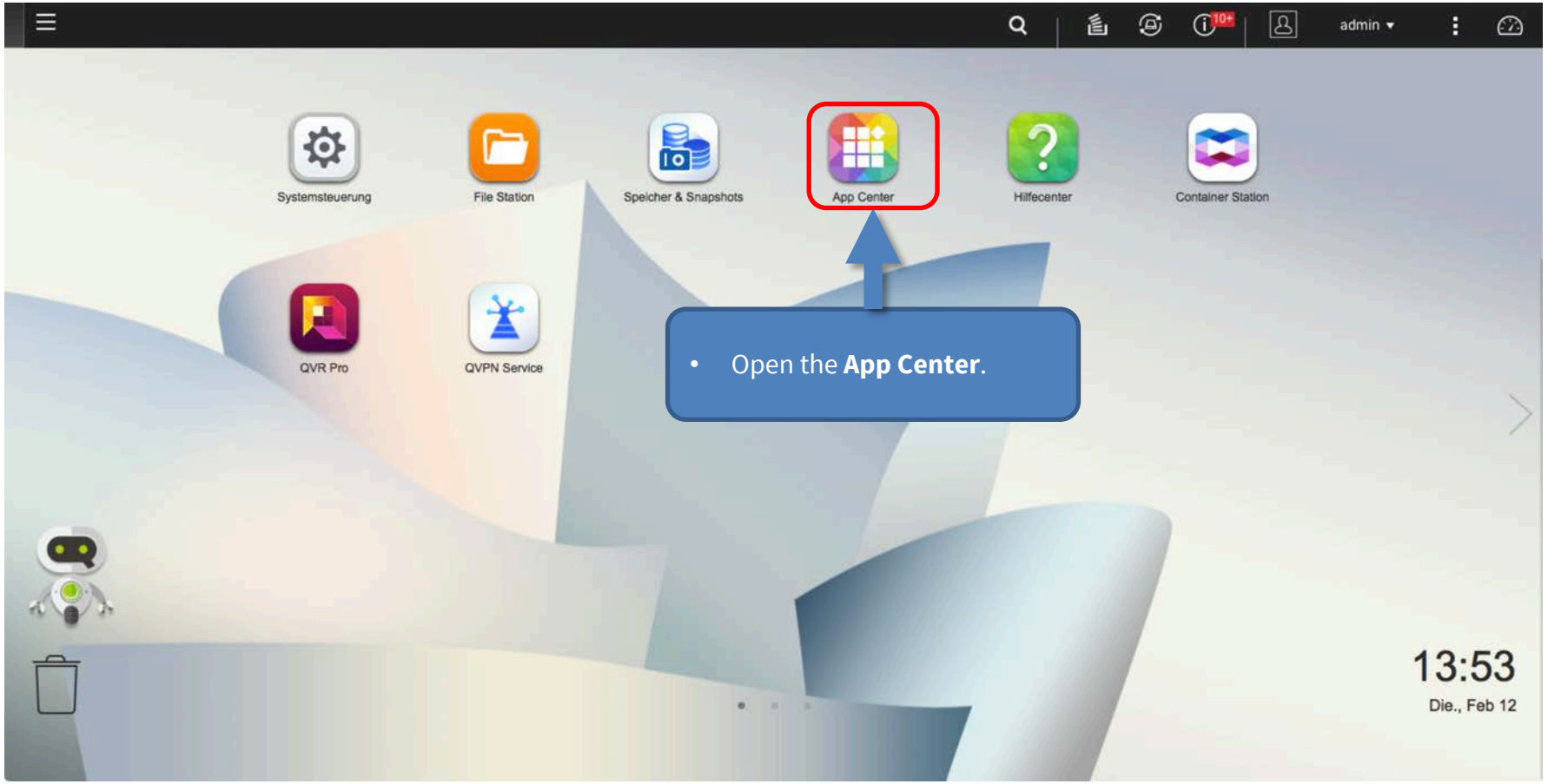
Step 9: optionally update firmware (2)



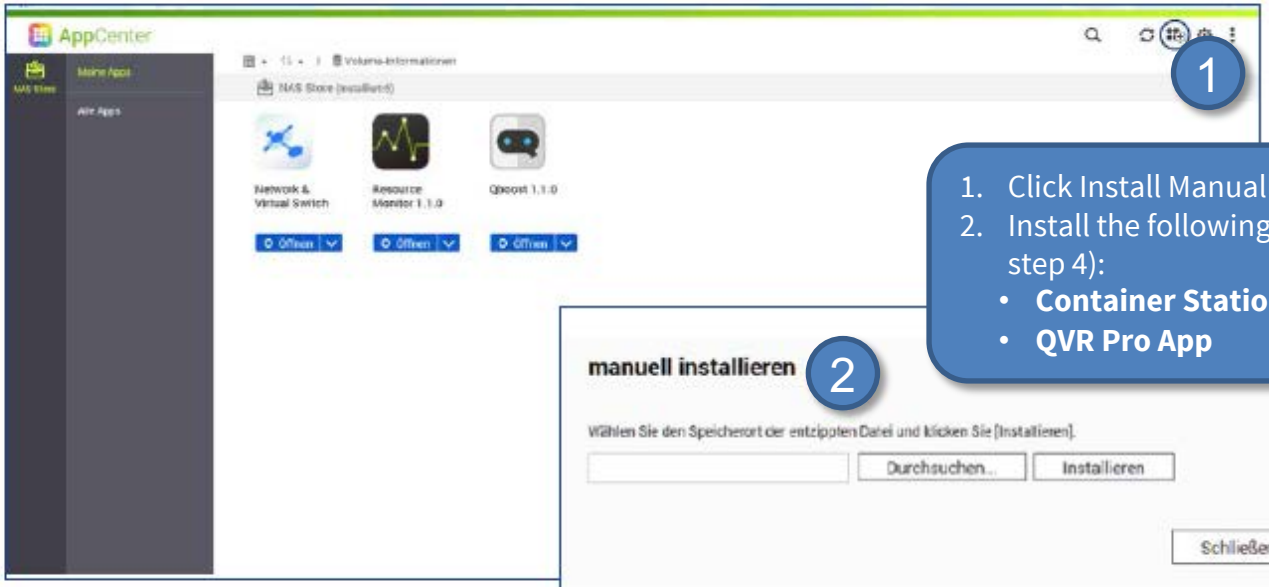
Step 9: optionally update firmware (3)



Step 10: Install Apps on NAS (1) - Recording software

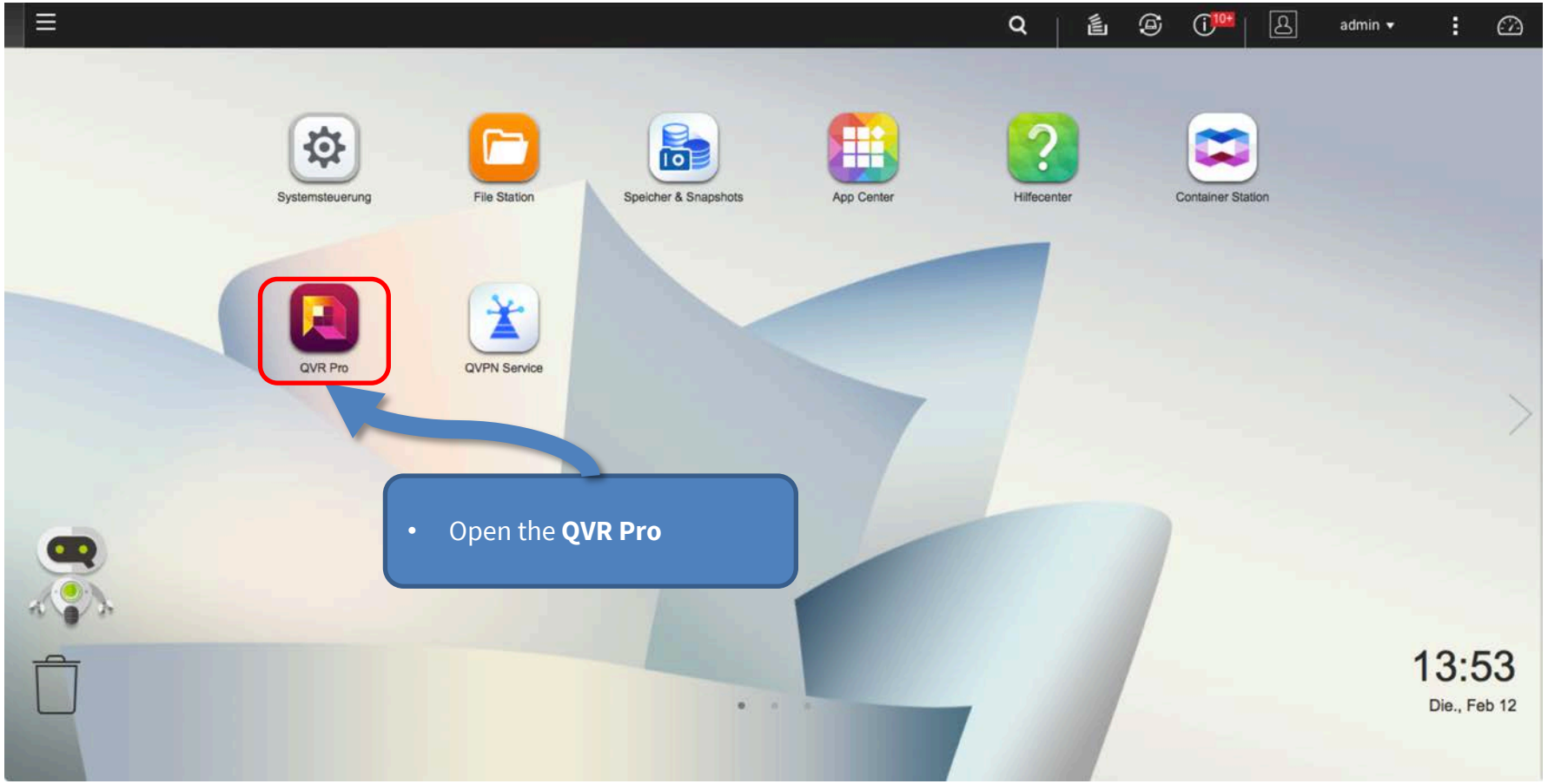


Step 10: Install App on NAS (2) - Recording Software

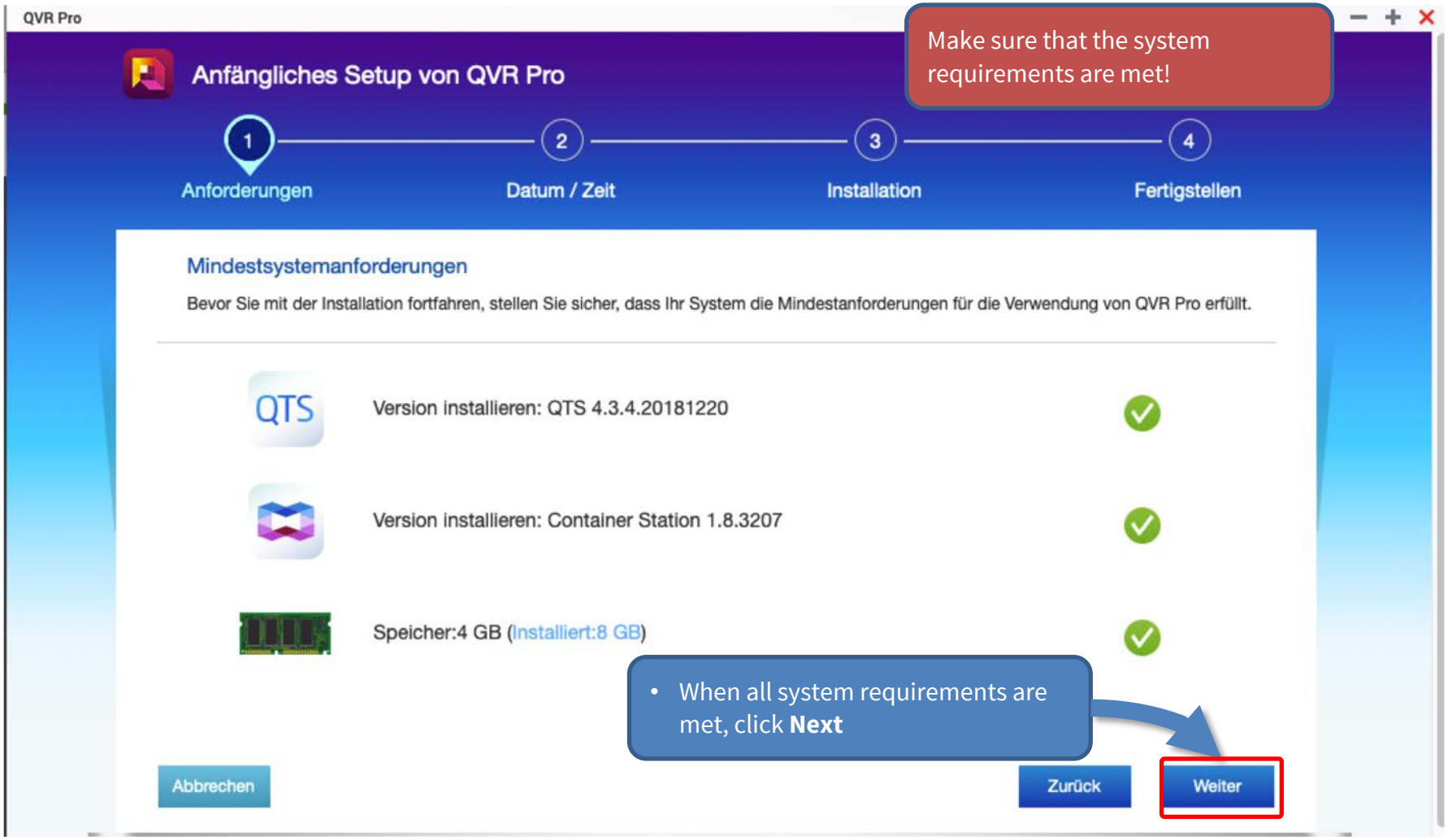


1. Click Install Manually.
2. Install the following apps (you downloaded them in step 4):
   - **Container Station App**
   - **QVR Pro App**

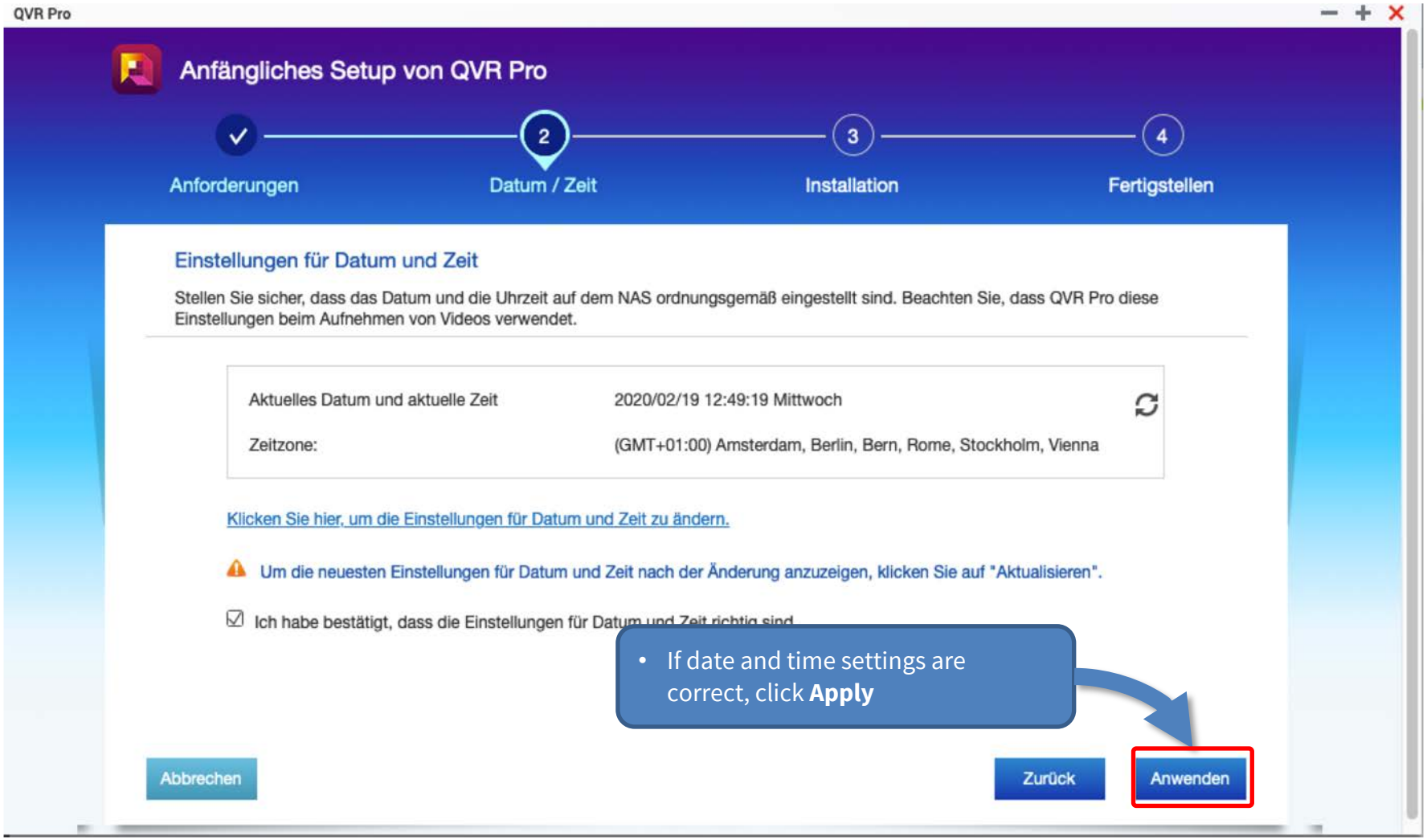
Step 11: Initial setup of QVR Pro (1)



Step 11: Initial setup of QVR Pro (2)



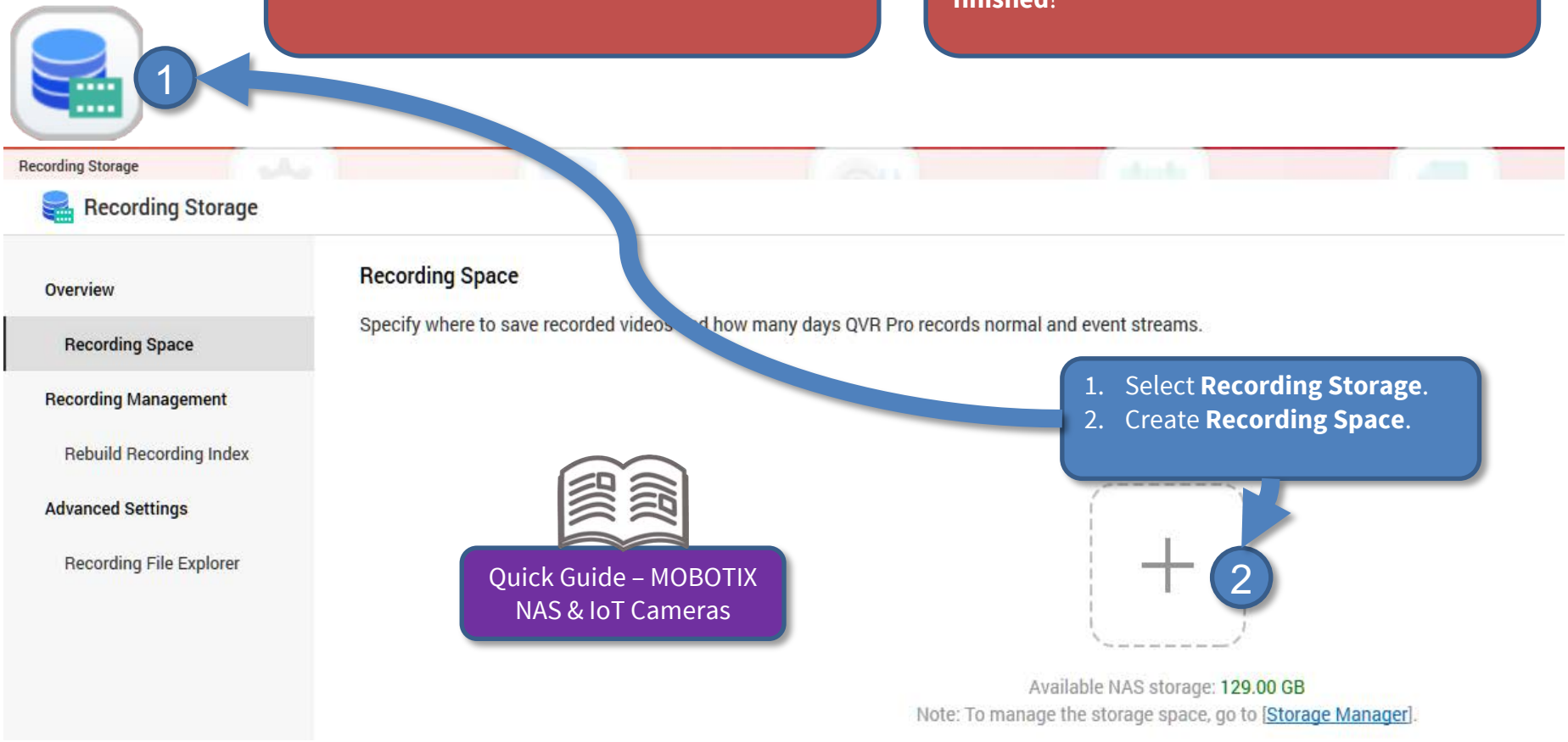
Step 11: Initial setup of QVR Pro (3)



Step 12: Create Recording Space in QVR Pro

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

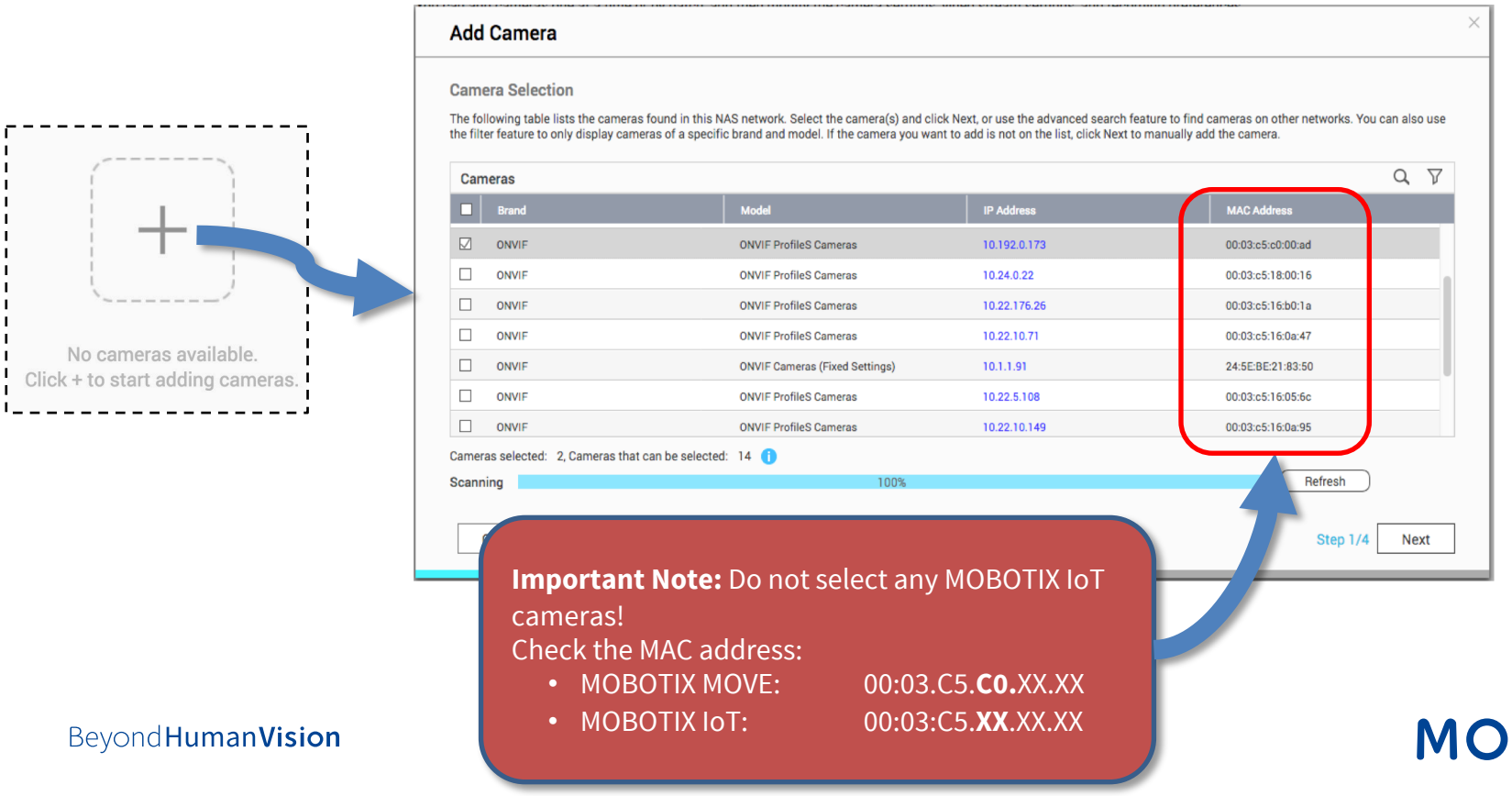
IMPORTANT: Wait until the recording space is fully allocated and **do not reboot the MOBOTIX NAS or add cameras before this task is finished**!



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

Step 13: Add Cameras in QVR (1)

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.



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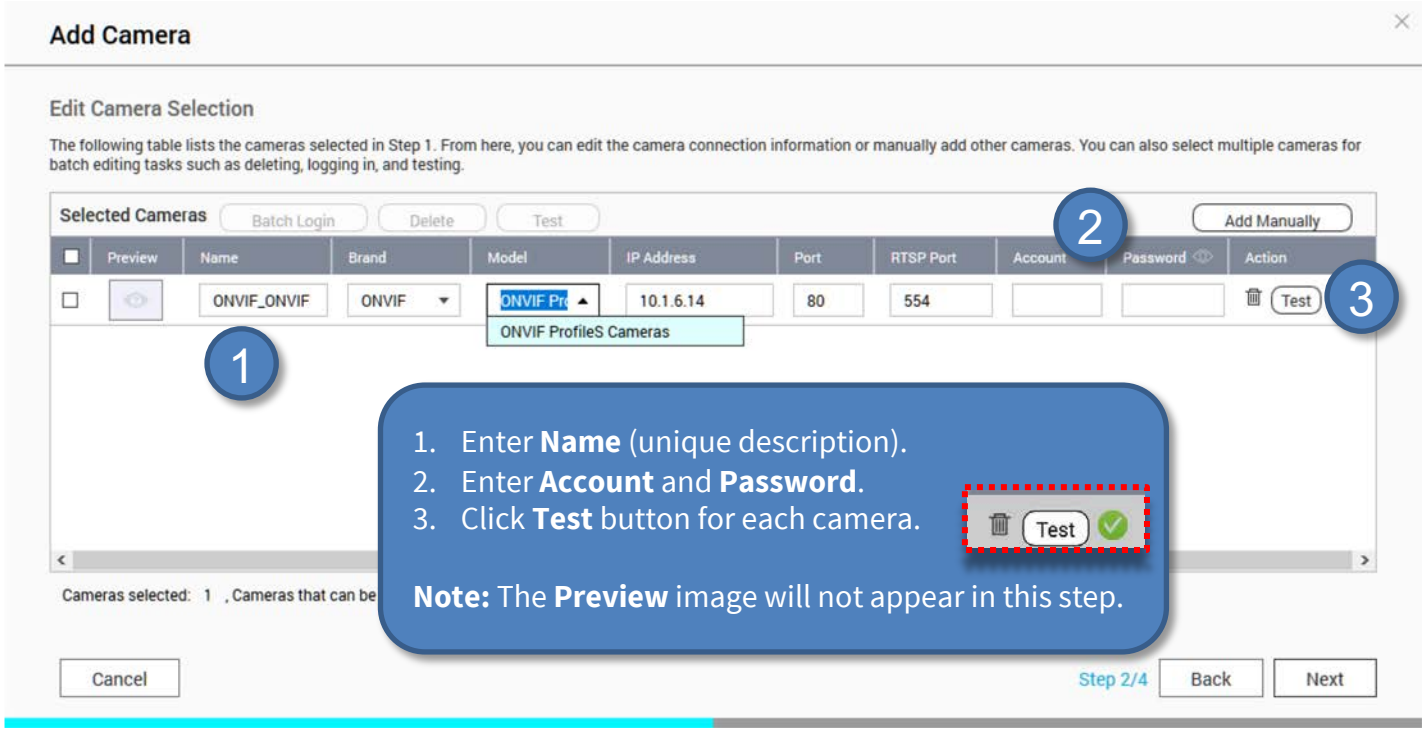
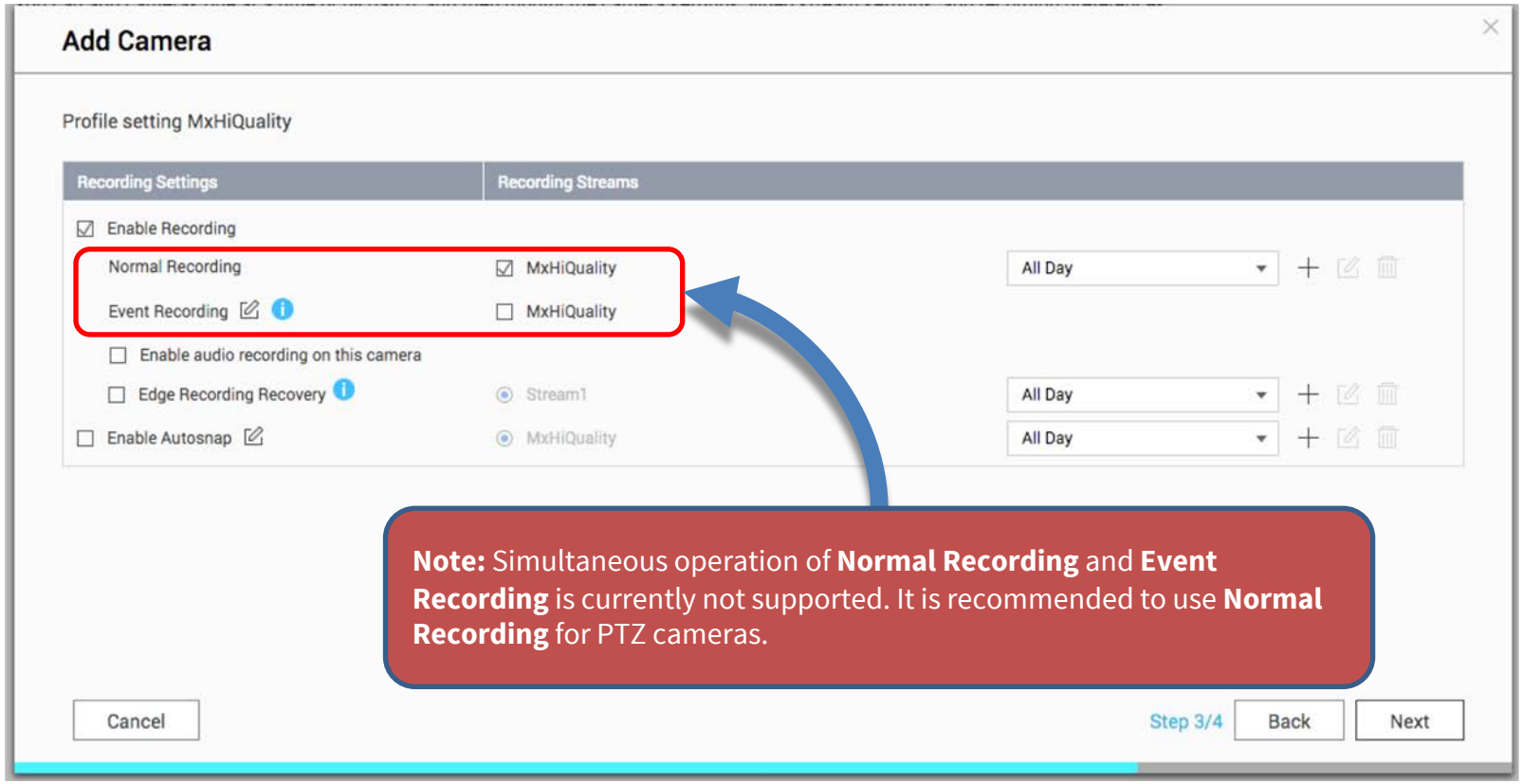
Step 14: Add Cameras in QVR (2)

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.



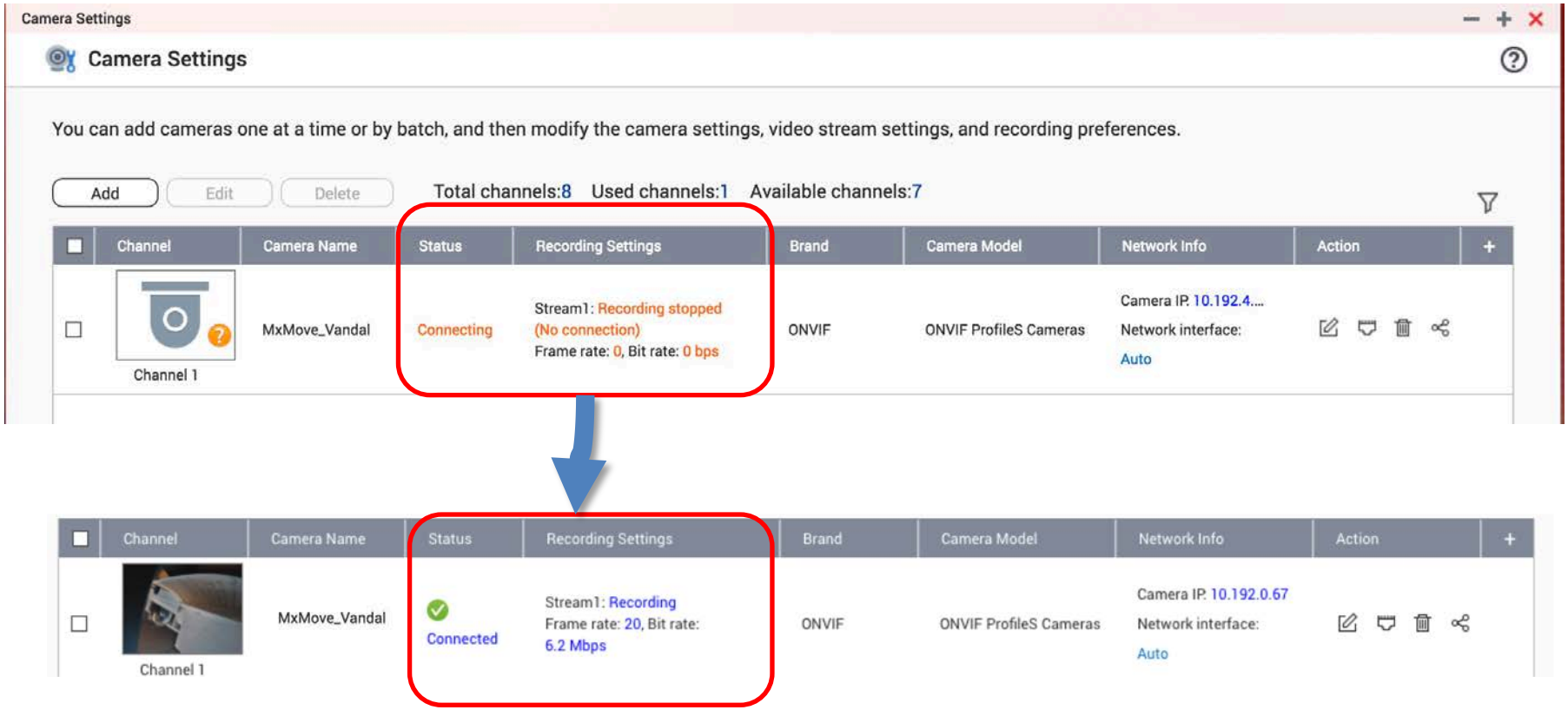
4. Define the recording settings (normal = continuous recording, event recording = event controlled) in this step.

   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.



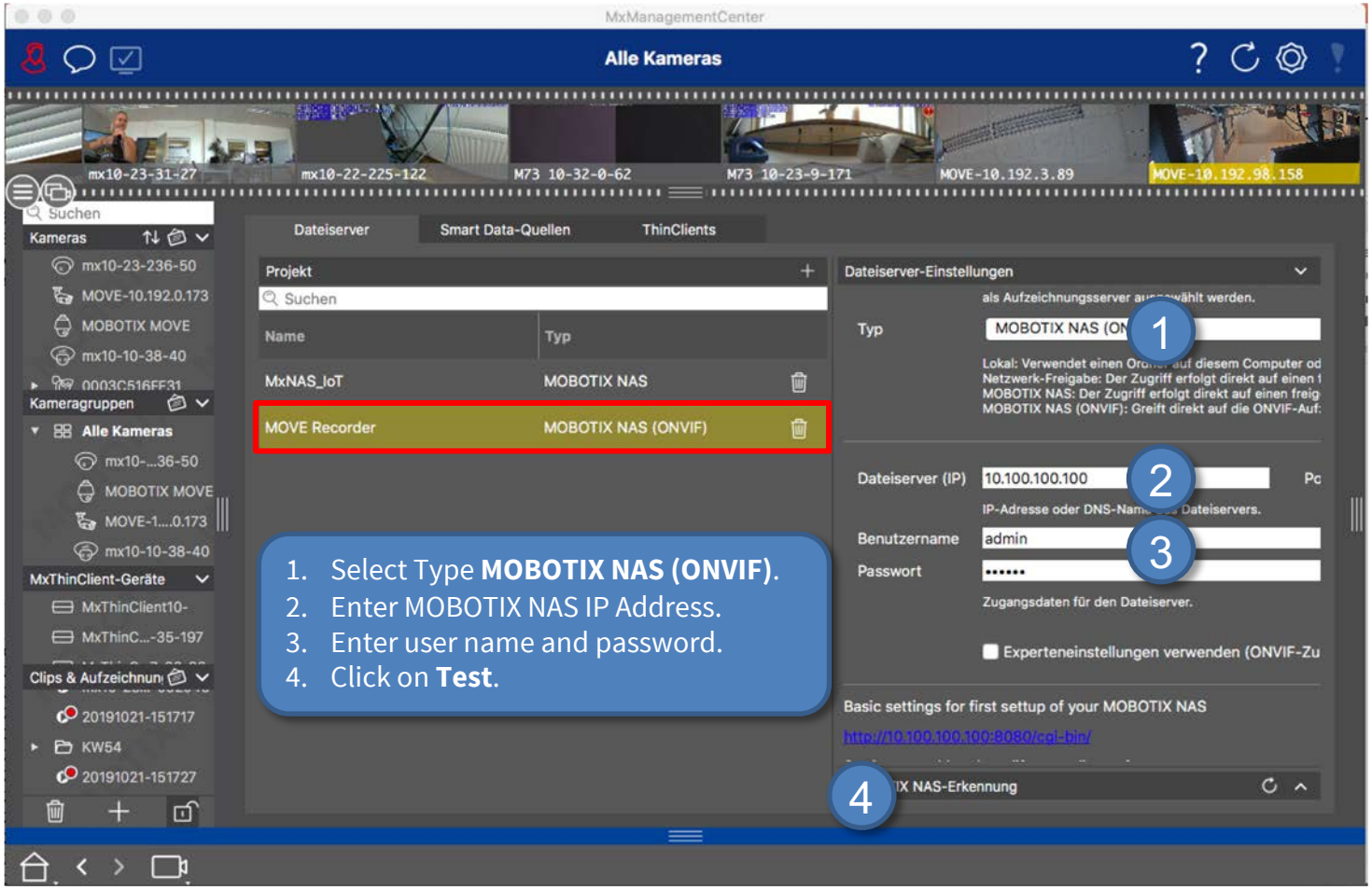
Step 15: Finish MOBOTIX NAS Setup

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 about 5 min until the MOBOTIX NAS has **connected to the new cameras**.



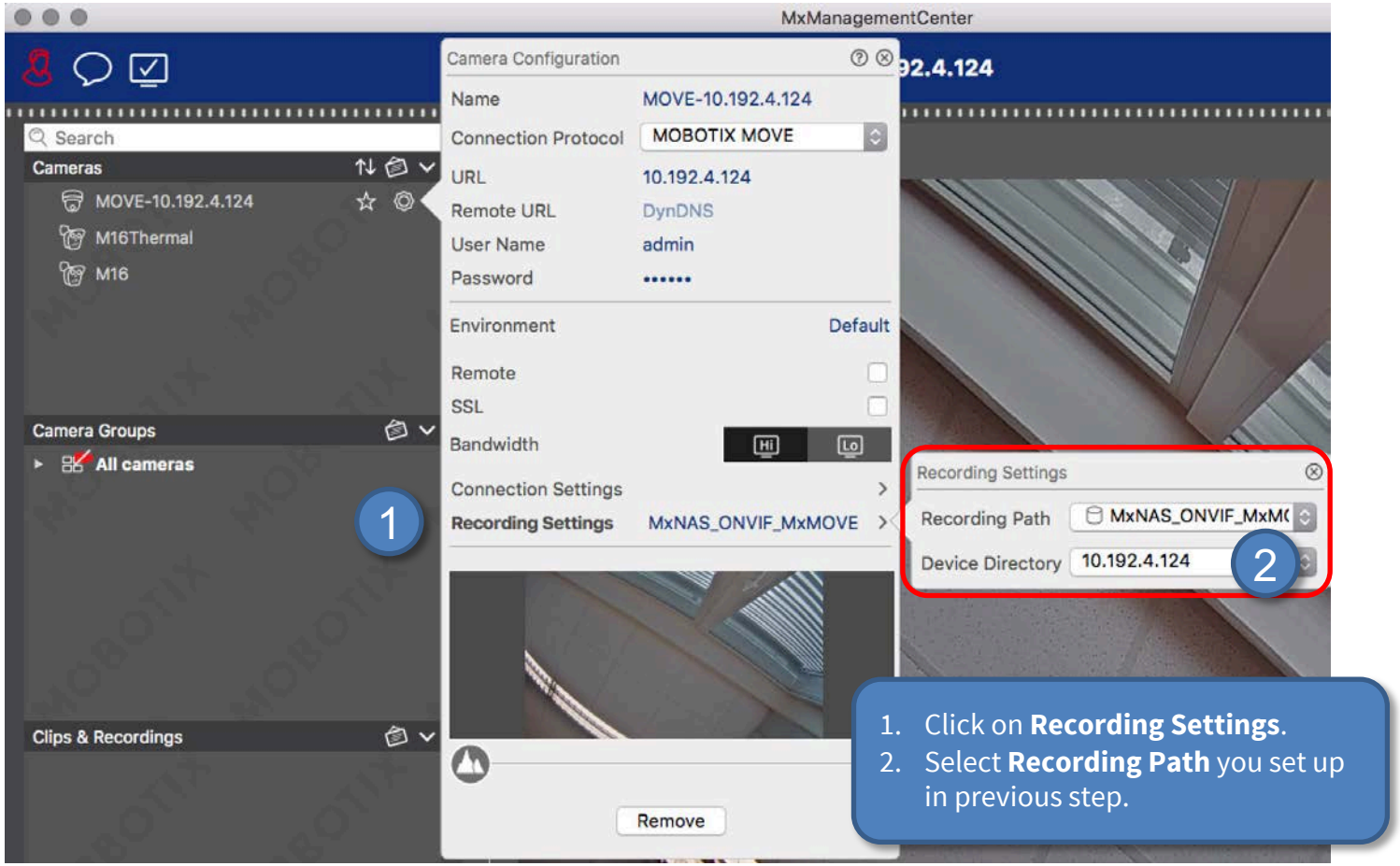
Step 16: Assign Recording Paths in MxManagementCenter (1)

Step 16: Assign Recording Paths in MxManagementCenter (3)



Step 17: Set up MxMC Recording Settings for Each Camera

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.

Done – MxMC Playback of MOVE/ONVIF Cameras

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