

Application Note

February 2014

Configuring MOBOTIX Cameras with Overland SnapServer DX-Series



Summary

This application note describes how to install MOBOTIX MxControlCenter software and how to configure MOBOTIX cameras with a SnapServer DX-Series server.

Introduction

A MOBOTIX device is an intelligent IP network camera. It captures and sends live high quality video directly over an IP network such as a LAN, intranet or over the Internet. Users can view and/or manage the camera using a standard web browser or video management software on any local or remote Windows operating system on the network. It allows authorized viewers from different locations to simultaneously access images from the same network camera.

The cameras create images in either MxPEG (a MOBOTIX proprietary format designed for security, with a low CPU and network load) or Motion-JPEG (an industry standard format), with or without audio, which the cameras send over Ethernet via TCP/IP to either the recording workstation or to a network storage device such as a SnapServer. The SnapServer, being a cross platform Network Storage File Server, can provide storage in several native formats. CIFS/SMB and NFS are two key protocols supported by the MOBOTIX camera.

SnapServer and MOBOTIX Topology

The following topology depicts how SnapServers are configured with MOBOTIX cameras:

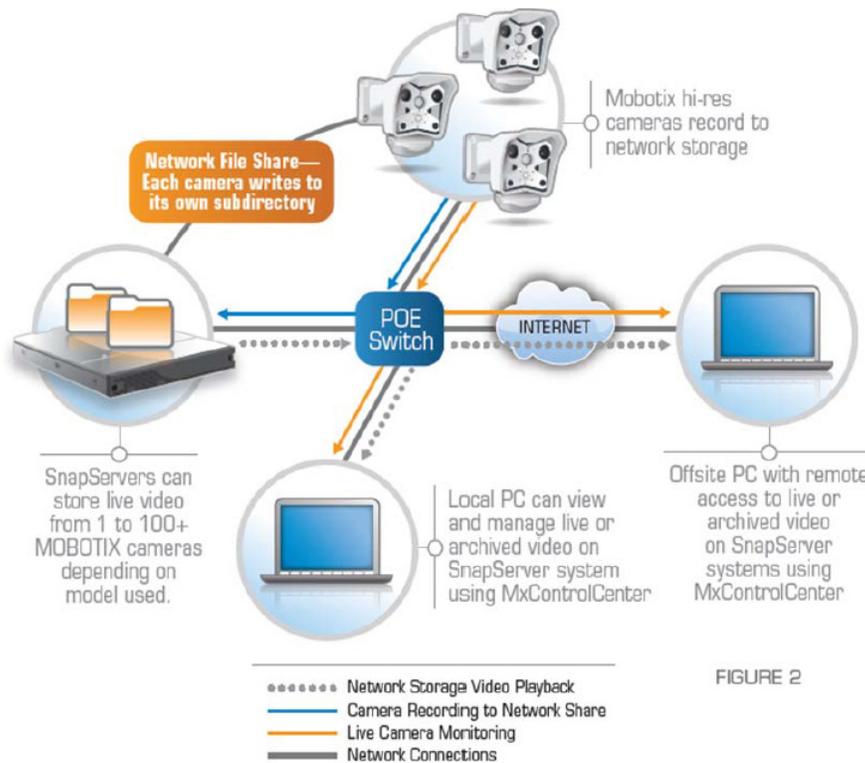


FIGURE 2

About MxControlCenter

The MxControlCenter software is a comprehensive video management application specially designed to work with MOBOTIX cameras and local or remote video storage archives such as SnapServer. It is an easy to use, feature rich solution, providing camera and SnapServer setup, remote monitoring and recording, advanced camera event management, and also provides a single interface for live viewing and remote viewing.

Required Information, Tools, and Files

Before you begin these procedures, the following information, tools, and files are required.

Prerequisites

Prior to performing these procedures, ensure that you have the following:

- The SnapServer DX2 installed with Guardian OS (GOS) 7.2.117 or greater.
- Additional information on the SnapServer DX can be found on the following links:
http://www.overlandstorage.com/pdfs/SnapServer_DX_Family_DS.pdf
<http://docs.overlandstorage.com/snapserver>
- You must have a MOBOTIX camera already installed and configured. You also must have available the credentials to the MOBOTIX Camera. Supported MOBOTIX cameras can be found here:
http://www.mobotix.com/eng_US/Products
- The MOBOTIX MxControlCenter video management software is a free download from the MOBOTIX website. This software allows the camera images to target the SnapServer as a storage device. The software can be downloaded from this link:
http://www.mobotix.com/eng_US/content/view/full/1723
- Apple Bonjour Service is required. Bonjour a zero-configuration networking utility is a required service application prior to installing MOBOTIX MxControlCenter. It is used to help discover the MOBOTIX camera. Information about the Apple Bonjour service is found in the MxControlCenter System Requirements section. The software can be downloaded from this link:
<http://www.softpedia.com/get/Office-tools/Other-Office-Tools/Bonjour.shtml>

Versions

The test environment has the following versions:

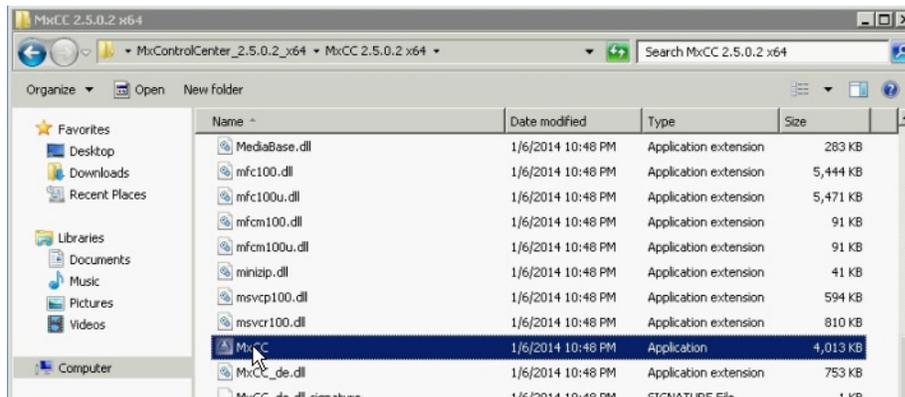
- SnapServer DX2 with GOS version 7.2.117 or higher
- MxControlCenter version 2.5.0.2 (64 bit)
- Bonjour version 1.0.6
- Windows Server 2008R2x64 SP1
- MOBOTIX M22M Network Camera software version MX-V3.5.2.23.r3

MxControl Center Installation

Install MOBOTIX MxControlCenter from either the CD or the MSI download from MOBOTIX.

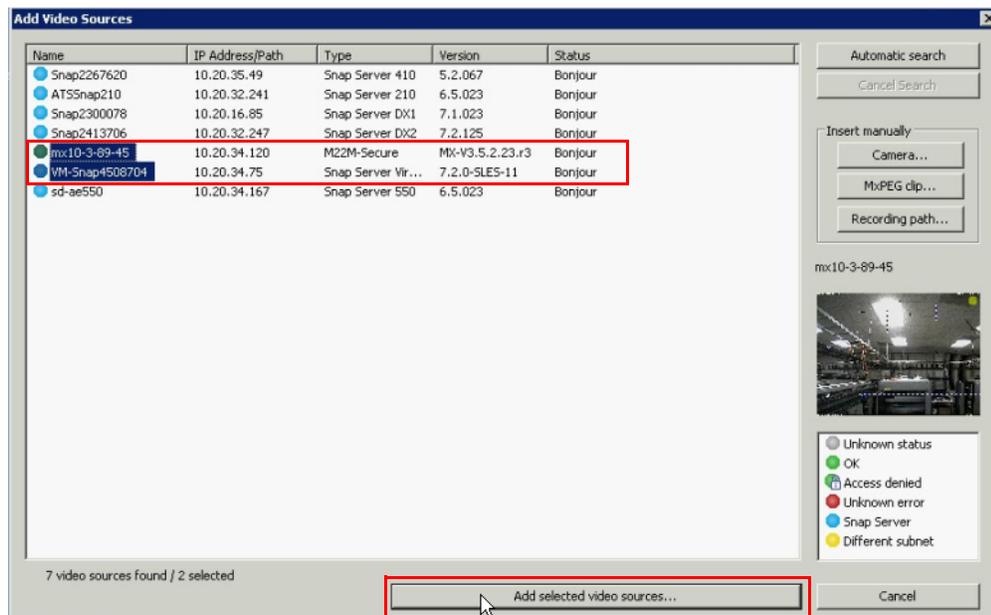
1. Run the **MxCC setup file**.
2. Once installed, double-click **MxCC.exe** located at **C:\MxControlCenter_2.5.0.2_x64\MxCC2.5.0.2x64**.

- When the dialog box appears, click **Run**.



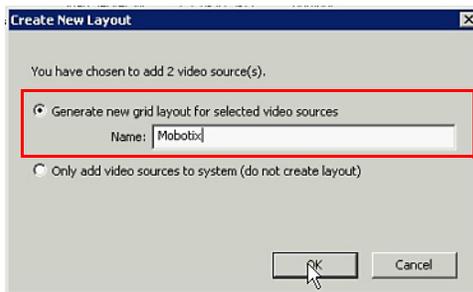
Discovering MOBOTIX Cameras and SnapServers

- When you run the MxControlCenter for the first time, the **Add Video Sources** dialog opens and automatically scans the network for cameras and SnapServers.
- From the list of found sources, select the appropriate **SnapServer system and MOBOTIX camera** to configure.



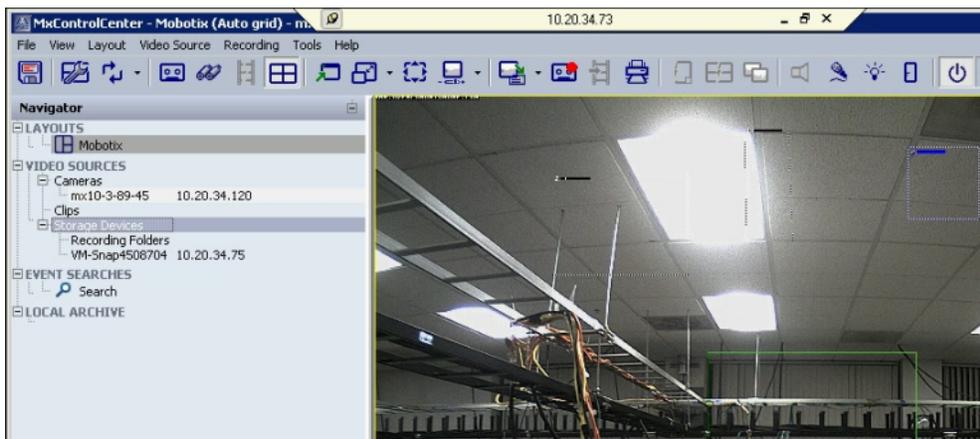
- Click **Add selected video sources**.

4. When the **Create New Layout** dialog box appears:



- a. Select **Generate new grid layout for selected video sources**.
- b. Provide a layout **Name**.
- c. Click **OK**.

The following screen appears with the configured cameras and storage devices listed in the left pane:



5. Additional cameras can be added to the current grid layout by the following procedure:

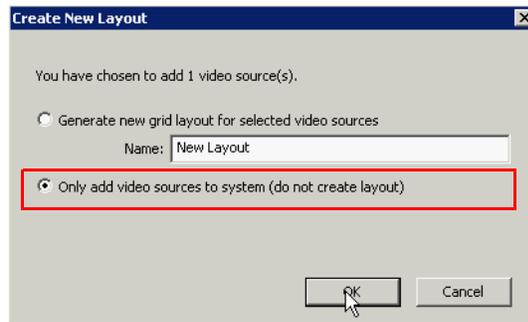
- a. Under **VIDEO SOURCES**, right-click **Camera** and select **Add Video Sources**.



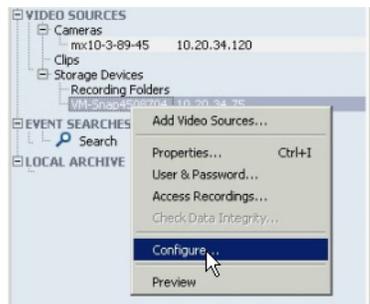
- b. Select the appropriate camera and click **Add selected video sources**.

Add Video Sources				
Name	IP Address/Path	Type	Version	Status
● Snap2300078	10.20.16.85	Snap Server DX1	7.1.023	Bonjour
● ATSSnap210	10.20.32.241	Snap Server 210	6.5.023	Bonjour
● mx10-3-89-45	10.20.34.120	M22M-Secure	MX-V3.5.2.23.r3	Known
● Snap2413706	10.20.32.247	Snap Server DX2	7.2.125	Bonjour
● VM-Snap4508704	10.20.34.75	Snap Server Vir...	7.2.0-SLES-11	Bonjour
● sd-ae550	10.20.34.167	Snap Server 550	6.5.023	Bonjour

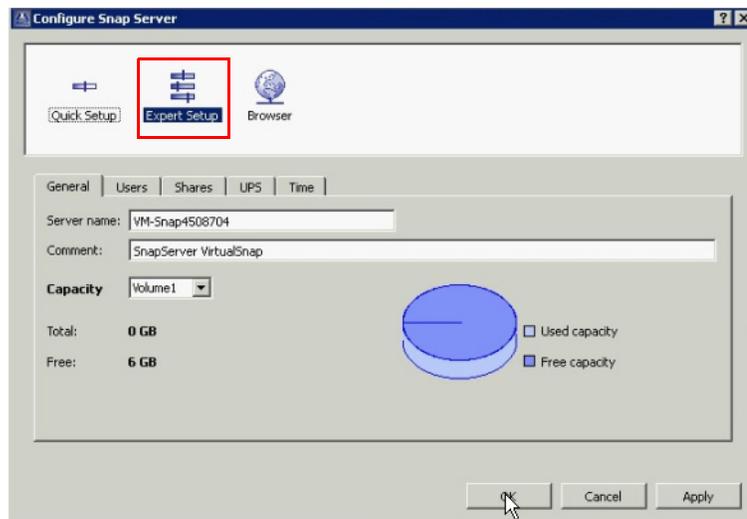
- c. In the **Create New Layout** dialog box, select **Only add video sources to system (do not create layout)** (do not create layout).



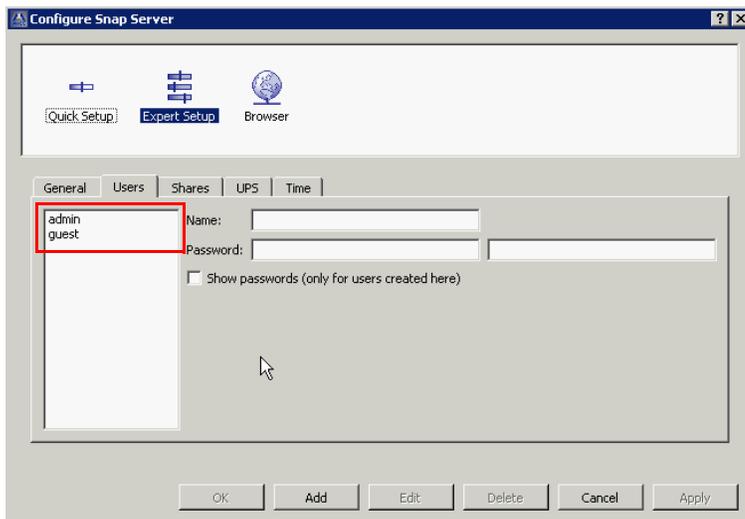
- d. Right-click the SnapServer name and select **Configure**.



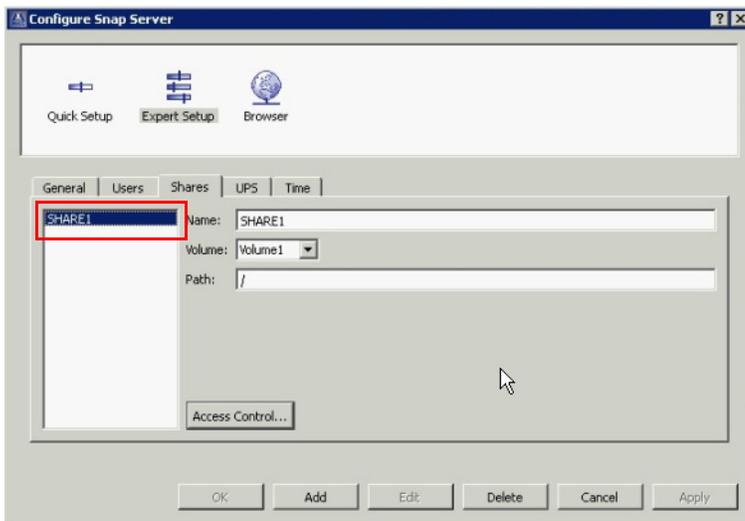
- e. From the **Configure SnapServer** dialog box, select **Expert Setup** and verify the **General** details.



- f. Switch to the **Users** tab and verify the **users**. The discovered SnapServer user accounts are shown.



- g. Switch to the **Shares** tab and select the **required share** that will be used for video storage. SHARE1 is the default SnapServer share name.

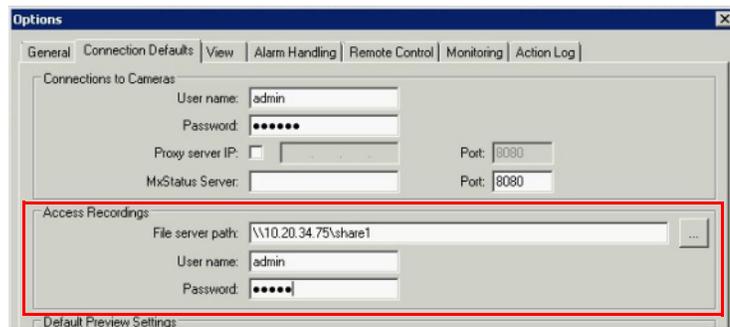


6. Click **OK**.

Camera and SnapServer Configuration

1. From the MxControlCenter window, navigate to **Tools > Options**.
2. In the **Options** dialog box, click the **Connection Defaults** tab.

3. Complete the **Access Recordings** section with the **SnapServer information**:



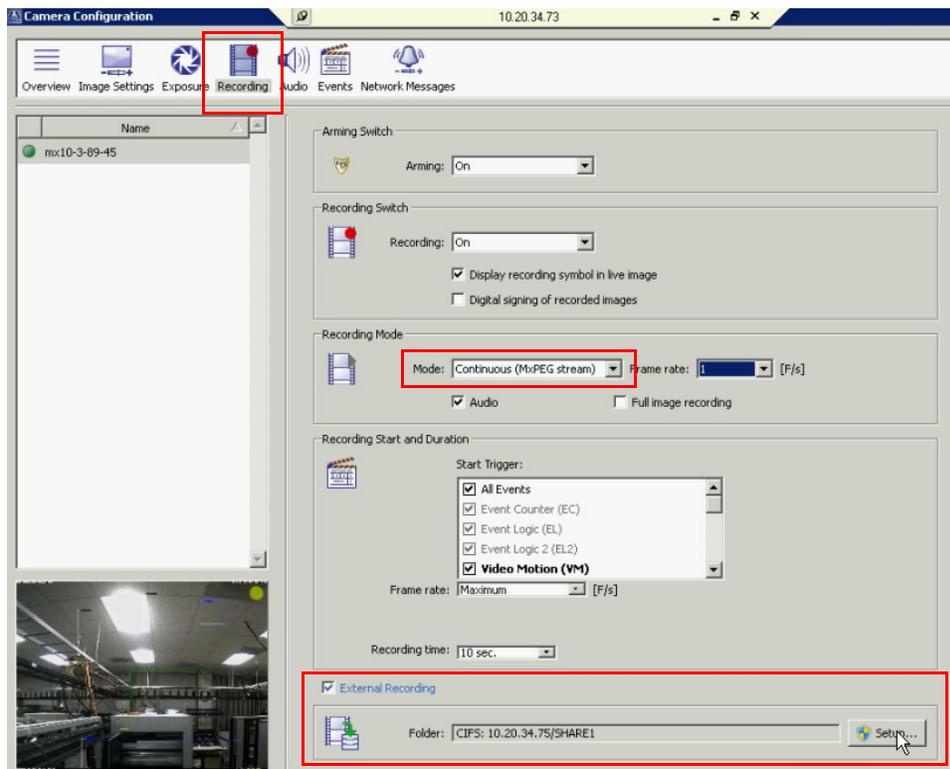
- a. Enter the **File server path** (SnapServer IP and Share).
- b. Enter the **User name** and **Password** (SnapServer credentials).
- c. Click **OK**.

4. From the MxControlCenter window toolbar, click the **Settings** tool (⚙️).

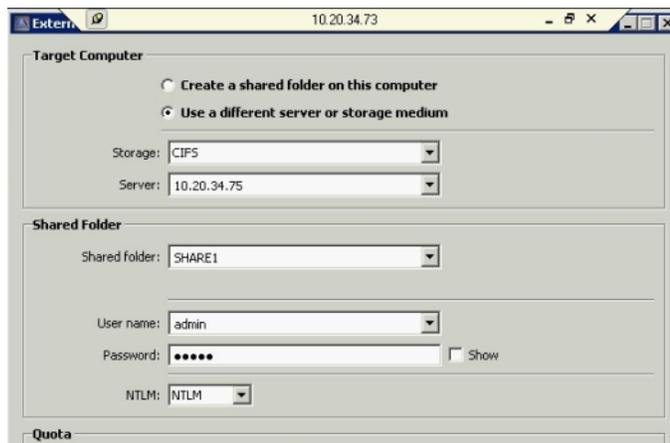
5. Provide the **User name** and **Password** for camera authentication and click **OK**. The default credentials for a MOBOTIX camera are **admin / meinsm**.



6. At **Camera Configuration**, select **Recording** and change the **Recording Mode** to **Continuous**.



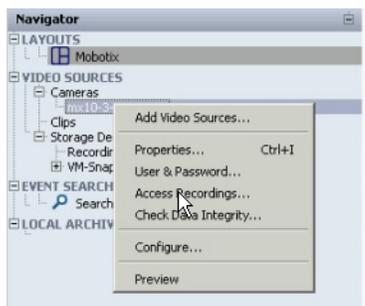
7. Select **External Recording** and click **Setup**.



8. Configure the **External Recording** settings as follows:
 - a. Configure **Use a different server or storage medium** section:
 - For **Storage**, select **CIFS**.
 - For **Server**, select the **SnapServer IP address**.
 - b. Configure **Shared folder** section:
 - For **Shared folder**, select the SnapServer share (**SHARE1**).
 - Enter your **User name** and **Password** (SnapServer credentials).
 - c. Click **OK**.
9. Verify the other **Camera Configuration** settings and click **OK**.

Access Recording

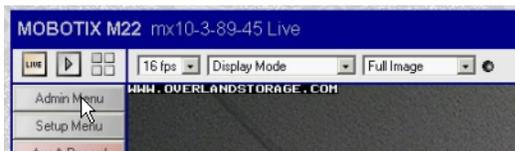
1. In the MxControlCenter window, right-click the **camera name** and select **Access Recordings**.



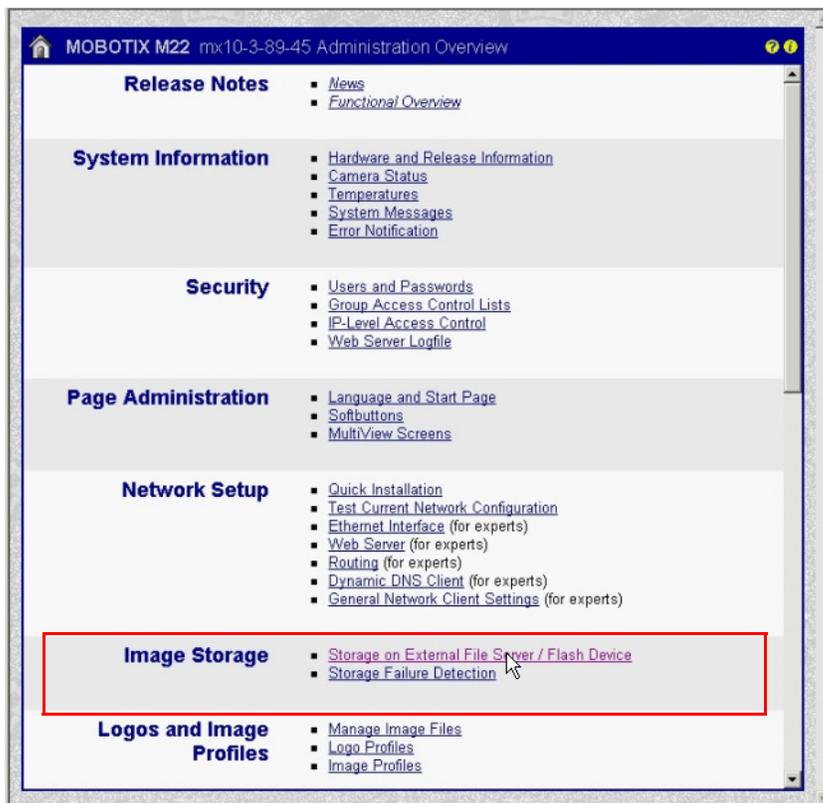
2. In the **Access Recordings** dialog box:
 - a. Select the option **Specify file server path (factory IP will be appended)**
 - b. Browse to the **SnapServer UNC path** to the share target.
 - c. Provide **User name** and **Password** (SnapServer credentials).
 - d. Click **OK**.



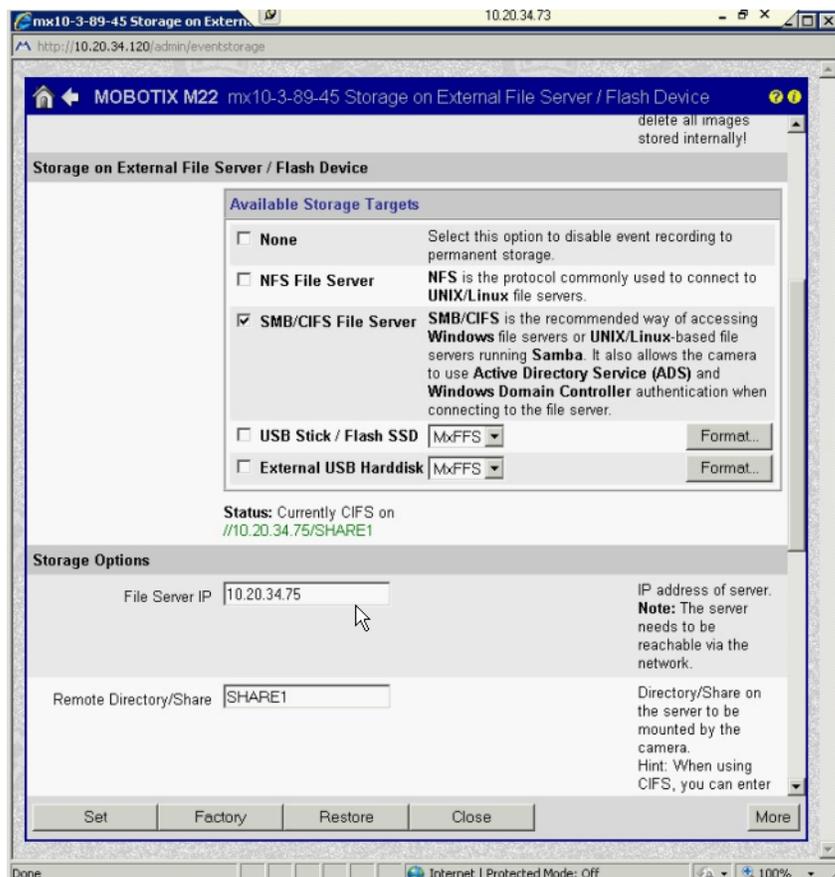
3. From the MxControlCenter window toolbar, click the **Open Camera** tool ().
4. Click **Admin Menu** on the left.



5. Provide the **User name** and **Password** for the MOBOTIX camera, and click **OK**.
6. Under **Image Storage**, click **Storage on External File Server / Flash Device**.



Verify the configuration details, click **Set**, and then **Close**.

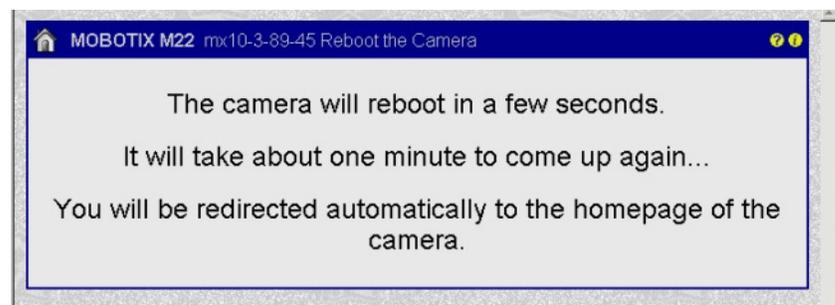


7. Navigate to **Admin Menu > General Tasks > Reboot** to effect the changes.



8. Verify the details and click **Reboot Now**.

The following message is displayed:



9. When rebooted, click **Setup Menu**.



10. Click **Recording** from the **Event Control** section.

11. Verify the details and click **Set**.



12. Click **OK** when the following confirmation appears:



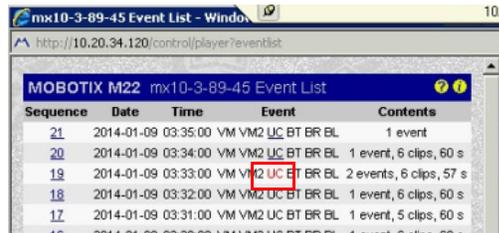
13. Click **Close**.

Verify Events

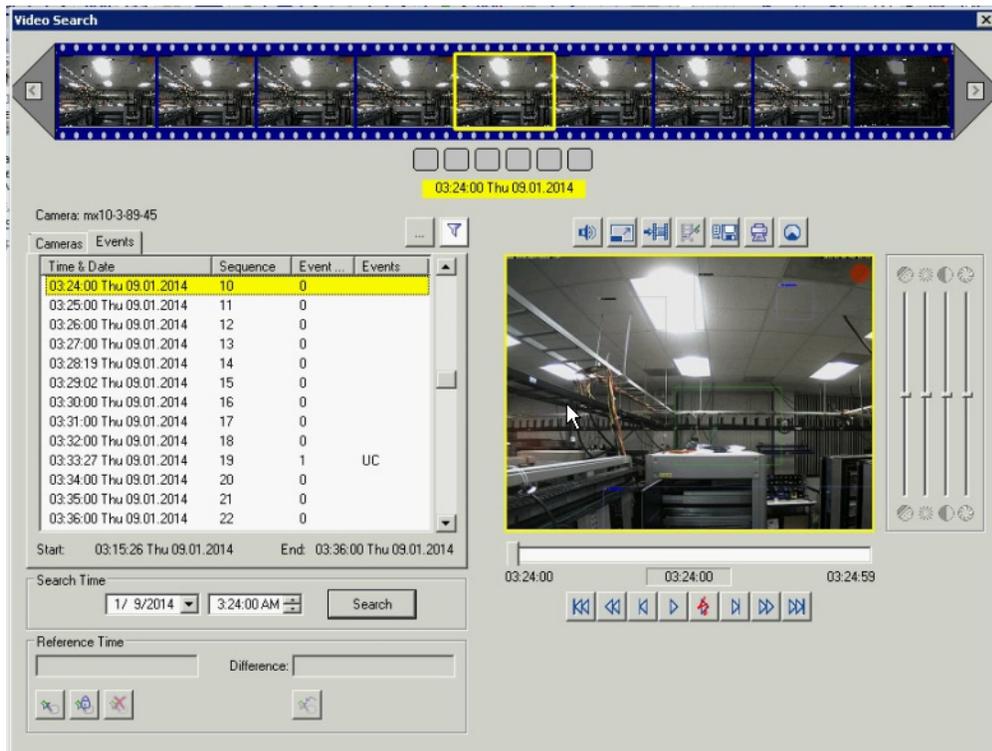
1. Click the **Events List** menu.



2. Check the events.
You can create events manually by clicking an **UC** event.



3. From the **MxControlCenter** window toolbar, click the **Videos Search** (🔍).
The Video Search window appears with the recorded events.



The recorded events are stored on the configured SnapServer share with the following data structure.

