



Cyber Protection Guide

How To Harden Your MOBOTIX Video System

Camera • VMS • NAS



About This Guide

Cyber-attacks against internet connected software and hardware is a growing problem. In recent years, attackers are increasingly focused on exploiting the weakest links within a security perimeter to gain access to critical applications and sensitive data.

With video surveillance technology as a vital part of site security that often inhabits a shared corporate network; video surveillance devices are increasingly becoming the target of directed cyber-attacks.

Recognising this emerging trend, MOBOTIX has developed a set of **built-in tools and features** allowing IT security administrators to configure each device as part of a multi-layered approach to cyber security.

These tools when used alongside other security elements such as firewalls and network segmentation can reduce the attack surface presented by MOBOTIX devices as part of a secure access policy for administrators and users.

This guide provides practical advice on how to configure MOBOTIX devices to offer the most protection against cyber-attack along with best practice guidance on building a secure video surveillance infrastructure.

Please note: This document is intended to give the responsible admin a complete overview of all possible measurements to harden the MOBOTIX system. Regarding the individual application and to avoid reconfigurations, it may not be useful to carry out every single procedure explained in this guide.

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Camera Configuration



1. Keep the firmware of the cameras up-to-date

MOBOTIX firmware can be downloaded for free from our web site: www.mobotix.com > [Support](#) > [Download Center](#)
Not sure how to proceed? Please refer to this compact guide: www.mobotix.com > [Support](#) > [Download Center](#) > [Documentation](#) > [Brochures & Guides](#) > [Compact Guides](#) > [Mx_CG_FirmwareUpdate.pdf](#)

2. Reset the configuration to factory defaults

[Admin Menu](#) > [Configuration](#) > [Reset configuration to factory defaults](#)

The screenshot shows the MOBOTIX web interface for a device labeled 'M1S mx10-42-1-27 Administration Overview'. The left sidebar contains a menu with the following items: System Information, Security, Hardware Configuration, Page Administration, Network Setup, MxMessageSystem, Storage, Logos and Image Profiles, Transfer Profiles, Audio and VoIP Telephony, Camera Administration, Configuration (highlighted in blue), and Maintenance. The 'Configuration' menu is expanded, showing a list of options: Store current configuration permanently (to flash), Reset configuration to factory defaults (indicated by a red arrow), Restore last stored configuration from flash, Load configuration from local computer, Save current configuration to local computer, Show current configuration (raw version), and Edit configuration file (Text Edit). A yellow warning box at the bottom states: 'Security Warning: Browsers retain password information until they are closed completely. To prevent unauthorized use of protected pages, make sure that you close all browser windows at the end of your session. Failing to do so will leave the password in the browser cache and other users may manipulate your camera(s)!'

3. Change the default admin password

Admin Menu > Security > Users and Passwords

User	Group	Password	Confirm Password	Remark/Action
admin	admins	<input type="checkbox"/> Remove
	undefined			

Scheduled access control by

Supervisor Activated

Super PIN (8 to 16 digits)

The admin user still uses the factory default password. You must change the password of the administrative account for security reasons!

Caution: Some areas of the camera are still publicly accessible.

Activate the checkbox below and click **Set** to prevent access to the camera without proper user authentication.

Disable public access

Open [Group Access Control Lists](#) to manage the group definitions and to set the group access rights.

It is always necessary to change the default password "meinsm" the first time you call up the camera.

Once you have finished configuring users, passwords and groups, you should always store the settings in the camera's permanent memory. Otherwise, the modified configuration will only be used until the next camera reboot. Use the Close button at the end of the dialog as it will automatically ask you to store the camera configuration to the camera's permanent memory.

Make sure that you store your password information in a secure place. Special care should be taken to retain the password of at least one user of the admins group. Without the password, administrative access to the camera is not possible any more and there is no possibility to circumvent the password. It is likewise impossible to retrieve the password from a permanently saved configuration.

How to create a strong password:

- Use 8 or more characters (up to 99)
- At least one upper-case character
- At least one lower-case character
- At least one digit
- At least one special character: ! " # \$ % & ' () * + , - . / : ; < = > ? @ [\] ^ _ ` { | } ~
- Avoid common words and dates

Password reset policy:

If the administrator password is no longer available, the camera must be reset via MOBOTIX for a fee!

4. Create different user groups with different user rights

Admin Menu > Security > Users and Passwords

Generally speaking, not all the users need the same rights. You can create up to 25 different users group from the page Admin Menu > Group Access Control List

5. Create different users and assign them to the right groups

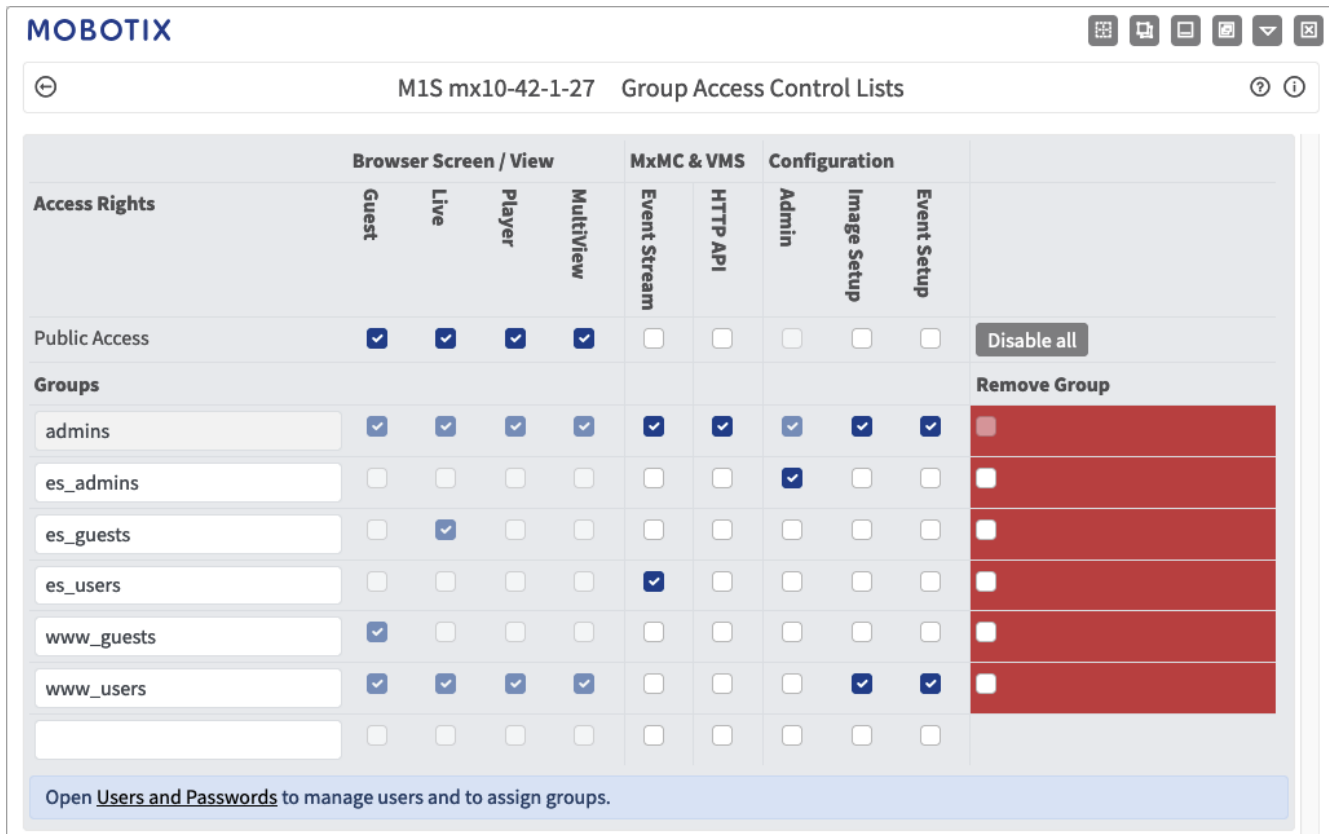
Admin Menu > Security > Users and Passwords

It's always advisable to create a user for each person who is authorized to access the camera. Up to 100 users can be created. Actions performed by authorized users are tracked in the Web Server Log file; this helps to determine "who did what" in case of disputes.

Refer to the description above to create strong passwords.

6. Disable Public Access

Admin Menu > Security > Group Access Control Lists



Access Rights	Browser Screen / View				MxMC & VMS		Configuration			
	Guest	Live	Player	Multiview	Event Stream	HTTP API	Admin	Image Setup	Event Setup	
Public Access	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Disable all
Groups										Remove Group
admins	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
es_admins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
es_guests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
es_users	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
www_guests	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
www_users	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Open [Users and Passwords](#) to manage users and to assign groups.

Public Access allows, if enabled, to access specific resources of the camera without authentication. It's strongly recommended to disable Public Access to avoid that unauthorized users can display the camera's live stream, recordings or even control the camera (e.g. change the configuration or execute actions). Further settings options under "More".

7. Enable IP Access Control List

Admin Menu > Security > IP-Level Access Control

MOBOTIX M1S mx10-42-1-27 IP-Level Access Control

WARNING: A faulty access configuration may render the camera inaccessible!

Access Control Configuration

Access Control	Disabled	Enable or disable Access Control.
Strict Mode	Disabled	Enable or disable Strict Mode.

Access Rules for Allow

Mode	IP Address/Subnet/Domain	Examples
Allow		192.168.1.163, 192.168.1.0/255.255.255.0, ftp.mobotix.com

Access Rules for Deny

Mode	IP Address/Subnet/Domain	Examples
Deny		192.168.1.163, 192.168.1.0/255.255.255.0, ftp.mobotix.com

If no match is found:

Allow	Access from all IP addresses/subnets/domains not listed above.
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The Access Control dialog allows managing the IP addresses, subnets and domain names, which are allowed to access the camera or which are prevented from accessing the camera. This possibility to control access to the camera uses the IP protocol level, is independent of password-based user authentication on HTTP protocol level and supersedes password-based authentication. If a computer does not have IP-level access to the camera, there is no possibility to reach the camera from that computer. If a computer has IP-level access to the camera, password-based user authentication follows as next step, as specified in the Users and Passwords dialog.

8. Enable the Intrusion Detection with notification and block of offending IP address

Admin Menu > Network Setup > Web Server (for experts) > Intrusion Detection Settings

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M1S mx10-42-1-27 Web Server
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Web Server	<input checked="" type="checkbox"/>
HTTPS Settings	<input checked="" type="checkbox"/>
X.509 certificate currently used by the camera	<input checked="" type="checkbox"/>
Replace the X.509 certificate and private key currently used by the camera	<input checked="" type="checkbox"/>
Generate self-signed X.509 certificate and X.509 certificate request	<input checked="" type="checkbox"/>
Obtain X.509 certificate via ACME client	<input checked="" type="checkbox"/>
Intrusion Detection Settings	<input checked="" type="checkbox"/>
Enable intrusion detection <input checked="" type="checkbox"/>	Send notification on repeated unsuccessful login attempts.
Notification threshold <input type="text" value="7"/>	Number of unsuccessful login attempts that will trigger a notification. Minimum value is 5.
Timeout <input type="text" value="60"/> Minutes	Idle timeout in minutes. Leave empty to use the default (60 minutes). Subsequent accesses of a client within this timeout are logged as one access with the date of the first and the last access and a counter is incremented. (See "More" view of Web Server Logfile .)
Deadtime <input type="text" value="60"/> Minutes	Deadtime between notifications. Leave empty to use the default (60 minutes). Set to zero to trigger a notification at every login attempt once the threshold has been reached.
Block IP Address <input checked="" type="checkbox"/>	Block IP address of offending HTTP client using IP-Level Access Control when threshold has been reached. Blocking is temporary until next reboot. This function takes only effect if IP-Level Access Control is enabled.
E-Mail Notification <input type="text" value="AlarmMail"/>	E-Mail Profile: Send image by e-mail. (E-Mail Profiles)
IP Notify <input type="text" value="Off"/>	IP Notify Profile: Notification by network message using the TCP/IP protocol. (IP Notify Profiles)
SNMP Traps <input type="text" value="Off"/>	Notification via SNMP Traps .
MQTT Publish <input type="text" value="Off"/>	Publish information via MQTT . Topic: MOBOTIX//notify/ids_alarm

This feature provides an automatic defense against attacks. If an intruder should try to access the camera using "brute force" methods to guess user names and passwords, the camera can send an alert and automatically lock out the offending IP address after a certain number of failed attempts.

9. Check that Web Crawling is forbidden

Admin Menu > Page Administration > Language and Start Page > Page Options

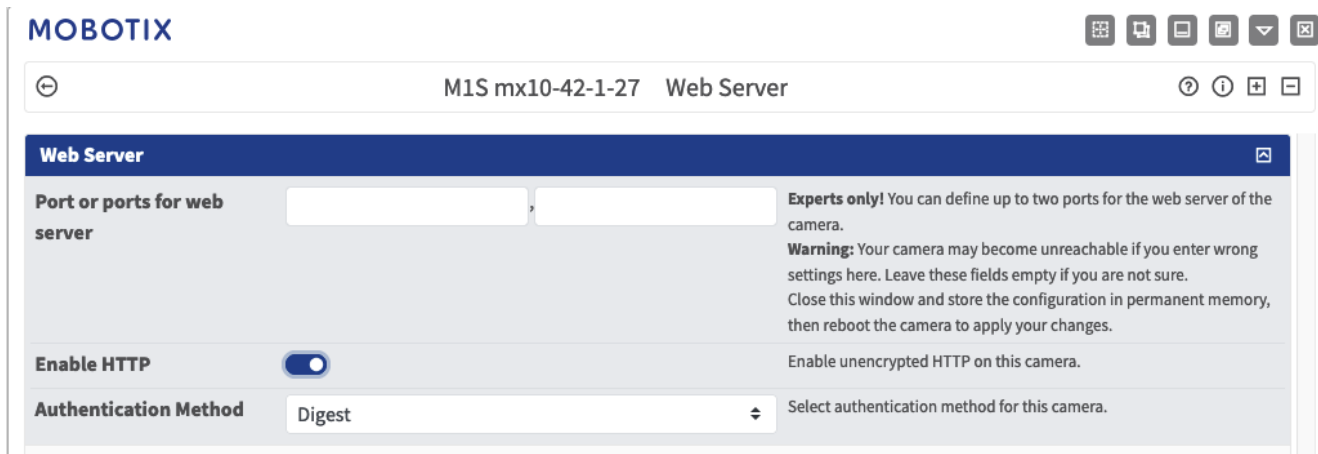
The screenshot shows the MOBOTIX web interface for configuration. At the top, it says 'MOBOTIX' and 'M1S mx10-42-1-27 Language and Start Page'. Below this is a navigation menu with options: 'Select Start Page', 'Page Design', 'Dialog Options', and 'Page Options' (which is selected and highlighted in blue). The 'Page Options' section contains several settings:

- Language:** Set to 'en'. Description: Select the language for the dialogs and the user interface.
- Image Pull-Down Menus:** Set to 'Show'. Description: Show or Hide the pull-down menus for image settings on the Live page.
- Refresh Rate for Guest Access:** Maximum is '2 fps', Default is '1 fps'. Description: Maximum and default image refresh rate on the Guest page.
- Refresh Rate for User Access:** Maximum is 'max fps', Default is '16 fps'. Description: Maximum and default image refresh rate on the Live page.
- Operating Mode:** Set to 'Server Push'. Description: Default operating mode of Live page.
- Preview Button:** Set to 'Hide'. Description: Allows to select the frame rate for low-bandwidth connections per client/browser separately from the full-size frame rate settings. Requires cookies to be enabled in your browser.
- Web Crawler Restrictions:** Set to 'Crawling forbidden'. Description: Allows web crawlers and search engines to scan the contents of the camera's webserver. This option is highlighted with a red arrow.
- Shortcuts:** (checkbox icon)

Using this parameter, you can prevent Web search engines, other automatic robots and web crawlers from scanning the contents of the camera's Web server. Usually, you would not want a search engine to index all the images and pages found on a camera. Make sure that you only allow crawling if you are aware of the additional security risks and the extra network traffic generated by the crawlers.

10. Enable Digest Authentication

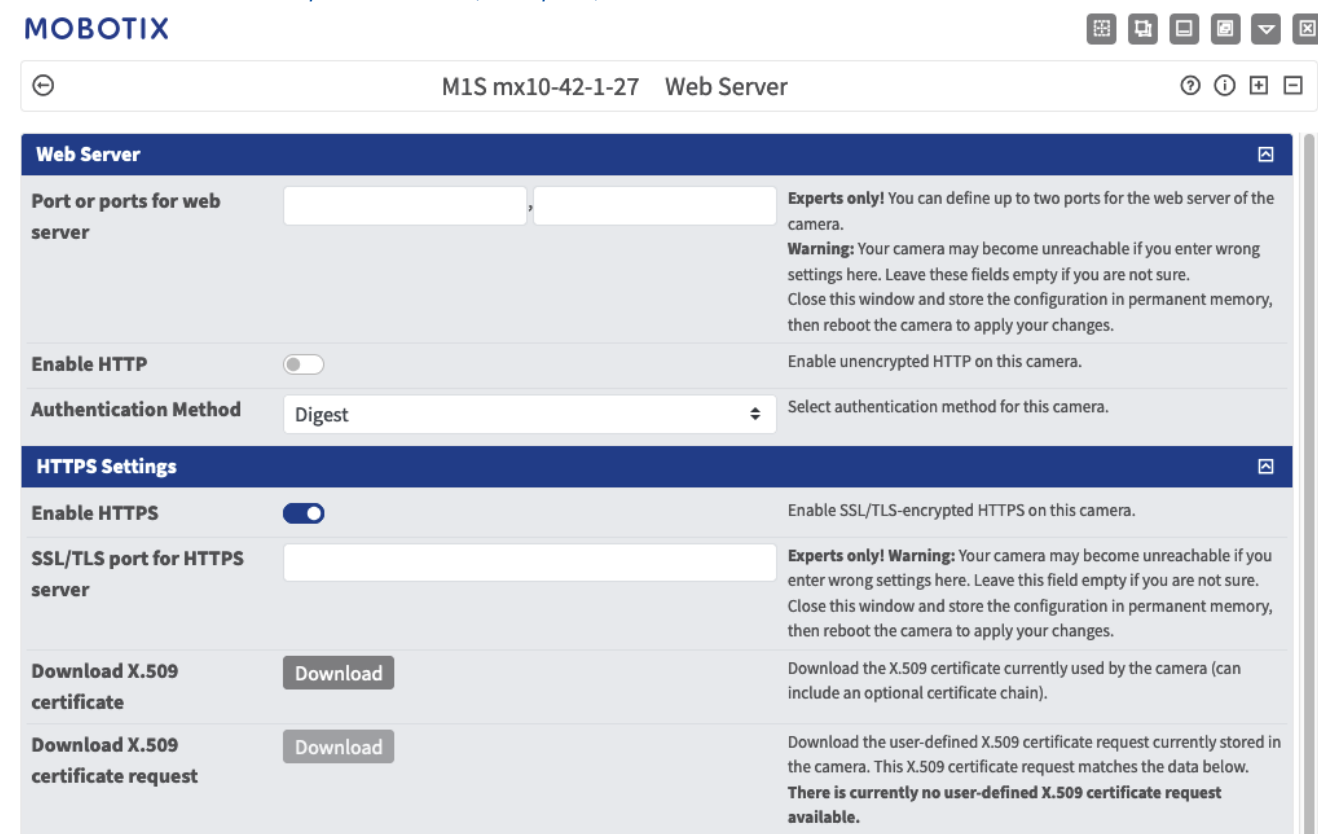
Admin Menu > Network Setup > Web Server (for experts) > Web Server



Digest access authentication is one of the agreed-upon methods a web server (i.e. MOBOTIX camera) can use to negotiate credentials, such as username or password, with a client (i.e. web browser). With Digest Authentication the password is never sent in the clear, and the username can be hashed.

11. Change the default ports of the Web Server (for remote access)

Admin Menu > Network Setup > Web Server (for experts)



Standard ports (80 TCP for HTTP and 443 TCP for HTTPS) are more prone to attacks. Replacing the default ports with custom ones can further increase the security of the camera. Immediately after disabling HTTP, the camera must be accessed in the browser via HTTPS.

12. Set an encryption key for recordings

Admin Menu > Storage > Storage on External File Server / Flash Device

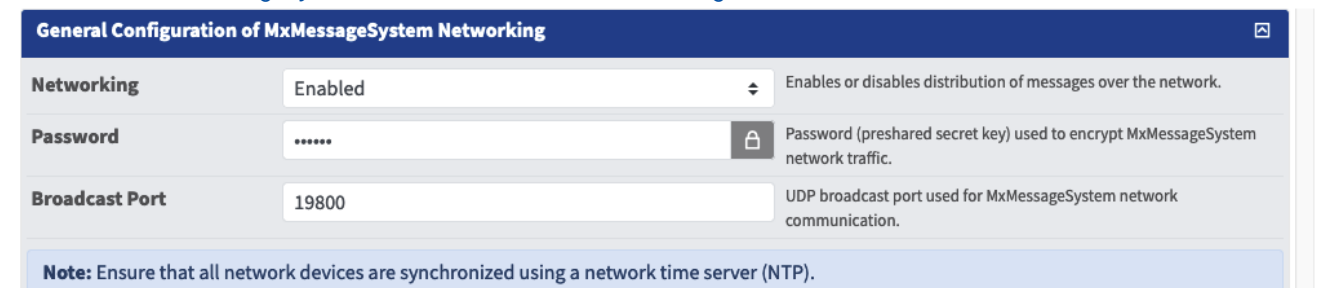
The screenshot shows the configuration interface for 'Storage on External File Server / Flash Device'. The page title is 'M1S mx10-42-1-27 Storage on External File Server / Flash Device'. The interface is organized into several sections:

- Format Storage Medium:** Includes a 'Format Medium' dropdown set to 'USB Stick / Flash SSD' and a 'Format...' button. A note states: 'Select the medium to be formatted and click the button to start formatting. Note: The active Storage Target must be deactivated and the Camera restarted to format it.'
- Storage Target:** Includes a 'Primary Target' dropdown set to 'SD Flash Card' and an 'MxFFS Archive Target' dropdown set to 'NFS File Server'. A note explains: 'Recording Destination. Archive to backup the primary target. The file server parameters are defined below as usual. See the MxFFS Archive Options section below. Click here to see the archive statistics.'
- File Server Options:** Includes fields for 'File Server IP' (10.0.0.254), 'Directory/Share' (/Users/John/data), and 'User ID and Group ID' (65534, 0). A 'Start Test' button is present. A note states: 'IP address of server. Note: The server needs to be reachable via the network. Directory/Share on the server to be mounted by the camera. Hint: When using CIFS, you can enter the share directly (e.g. \$data or data). When using NFS, you need to enter the path to the share (e.g. /path/to/data). Note: The server has to grant mounting rights to the camera. Optional User ID and Group ID for NFS server, default: 65534 and 0. Test the file server connection with the settings shown.'
- Storage Options:** Includes an 'MxFFS Encryption Key' field with a lock icon and an 'Event Logging' dropdown set to 'Enabled'. A note states: 'Recordings on MxFFS volumes will be encrypted using this keyword. An MxFFS Storage can be connected over an unencrypted network connection, as all data is already encrypted within the camera. Keyword changes are supported without losing access to old recordings. The encryption keyword is usually only specified when formatting the flash medium. A factory reset might restore the factory keyword and can therefore prohibit access to recordings encrypted with a different keyword. Activate event logging.'

An encryption key can be set to encrypt the recordings stored onto the internal storage (microSD card / USB flash drive) as well as for the recording archived to the external File Server (SMB / NFS). Click on “More” below to see all the setting options.

13. Change default password for MxMessage (only necessary if utilized)

Admin Menu > MxMessageSystem > Network Distribution of Messages



The screenshot shows the configuration interface for 'General Configuration of MxMessageSystem Networking'. The page title is 'General Configuration of MxMessageSystem Networking'. The interface includes the following settings:

- Networking:** A dropdown menu set to 'Enabled'. Description: 'Enables or disables distribution of messages over the network.'
- Password:** A text field with masked characters (dots) and a lock icon. Description: 'Password (preshared secret key) used to encrypt MxMessageSystem network traffic.'
- Broadcast Port:** A text field set to '19800'. Description: 'UDP broadcast port used for MxMessageSystem network communication.'

Note: Ensure that all network devices are synchronized using a network time server (NTP).

MxMessageSystem allows the transfer of messages between cameras over the network. A password (symmetrical key) of at least 6 characters, should be defined to encrypt the transferred messages.

14. Enable Error Notification

Admin Menu > System Information > Error Notification

The Error Notification dialog provides several options for getting notifications (e-mail, IP notifications, VoIP calls, etc...) in case of reboot or errors that are detected within the different systems of the camera. This tool can help system administrators make sure that all the MOBOTIX cameras are functioning properly.

15. Enable Storage Failure Detection

Admin Menu > Storage > Storage Failure Detection

The screenshot shows the MOBOTIX web interface for the 'Storage Failure Detection' settings. The browser title is 'M1S mx10-42-1-27 Storage Failure Detection'. The settings are organized into three sections:

- Check:** A dropdown menu is set to 'Enabled'. The description reads: 'Enable or disable storage failure detection.'
- Tests:** Four checkboxes are all checked:
 - Ping test (file server only)
 - Check transfer
 - Lost events
 - SD card I/O errors testThe description states: 'Select the tests you would like to perform. **Ping test** is only useful for remote file servers and will periodically check whether or not the server responds to network packets. **Check transfer** will ensure that it is possible to write data to the recording target. Checking for **Lost events** will detect events that could not be properly copied to the recording target. Hint: you can [view](#) the log file.'
- Sensitivity:** A dropdown menu is set to 'High'. The description states: 'Select the sensitivity of the tests. Use *High* for strict tests and to trigger error notification early. Otherwise use *Low* for less stringent test conditions and a delayed notification.'

Use the Storage Failure Detection dialog to configure tests that constantly monitor the external storage target (file server or Flash device) that the camera is using as an external ring buffer. The camera will actively monitor its storage target and reports problems with video recording using the notification methods specified in this dialog.

16. Generate and load custom X.509 certificates

Admin Menu > Network Setup > Web Server (for experts)

Replace the X.509 certificate and private key currently used by the camera

Delete the X.509 certificate	<input type="radio"/>	Delete the user-supplied X.509 certificate and X.509 private key in the camera. The camera will use its factory-supplied X.509 certificate again.
Upload the X.509 certificate and private key	<input checked="" type="radio"/>	Upload the user-supplied X.509 certificate and private key. The currently used X.509 certificate and private key will be overwritten. Download them first if you would like to preserve them.
Upload X.509 certificate	<input type="radio"/>	Upload the user-supplied X.509 certificate that matches the X.509 certificate request currently stored in the camera. The currently used X.509 certificate will be overwritten. Download it first if you would like to preserve it.
Generate	<input type="radio"/>	This will regenerate and overwrite any X.509 certificate, X.509 private key and X.509 certificate request currently stored in the camera. Download them first if you would like to preserve them. Note: Generation will need several seconds to complete.
Upload X.509 certificate from file:	<input type="text" value="Select file"/> <input type="button" value="Browse"/>	Upload the user-supplied X.509 certificate. Enter the X.509 certificate file in PEM format. If X.509 certificate and X.509 private key are contained in the same file, enter the file containing X.509 certificate and X.509 private key.
Upload X.509 private key from file:	<input type="text" value="Select file"/> <input type="button" value="Browse"/> Passphrase: <input type="text"/> <input type="button" value="Lock"/>	Upload the user-supplied X.509 private key. Enter X.509 private key file in PEM format. If X.509 certificate and X.509 private key are contained in the same file, enter the file containing X.509 certificate and X.509 private key. Enter the passphrase if the X.509 private key is encrypted with a passphrase.

Loading a custom certificate signed by a trusted CA (Certificate Authority) will ensure confidentiality and authenticity to all the connections established via HTTPS (SSL/TLS).

17. Configure OpenVPN client for remote connections

Admin Menu > Network Setup > OpenVPN Client Settings

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M1S mx10-42-1-27 OpenVPN Configuration

General OpenVPN Setup

OpenVPN Enable or disable the VPN features of this camera.

To optimize the security in case of remote connections it's possible to leverage the embedded OpenVPN client to establish a VPN (Virtual Private Network) tunnel between the camera and the remote host.

Creating an OpenVPN connection requires a corresponding server, which provides secure access to the camera. To do so, you could run your own OpenVPN server or use the service from an OpenVPN provider.

For more information about OpenVPN, visit the [OpenVPN Community](#) website.

18. Avoid to expose the camera to the Internet unless strictly necessary

Remote access to the camera should granted consciously to reduce the risk of attacks. If a remote access is necessary, please make sure to observe the aforementioned rules to limit the possibility to connect to the intended users only.

19. Make use of VLANs to separate the CCTV network (enterprise security level)

In enterprise environments it's good practice to keep the CCTV network (IP cameras, NVR and VMS workstations) separated from the rest of the hosts to prevent unauthorized accesses and avoid traffic congestion.

Cyber Protection Guide

20. Enable IEEE 802.1X (enterprise security level)

[Admin Menu](#) > [Network Setup](#) > [Ethernet Interface \(for experts\)](#) > [IEEE 802.1X](#)

This international standard is used for port-based network access control (NAC). This procedure requires that all network devices (i.e., also the MOBOTIX camera) need to authenticate themselves at the switch to obtain a network connection. Network devices without proper authentication will be rejected.

Ask your network administrator whether IEEE 802.1X is supported or required. Make sure that the switch to which the camera is connected (authenticator) has been configured accordingly. In general, the switch (authenticator) also needs an authentication server, such as a RADIUS server. The authentication procedure is controlled by the authentication server. Make sure that the camera and the authentication server always use the same procedure.

21. Check the Web Server log file on a regular basis

[Admin Menu](#) > [Security](#) > [Web Server Logfile](#)



Host Name	IP	Status	User	Date & Time ↑↓
10.5.8.6	10.5.8.6	Successful	-	today 15:40:59
			admin	15:40:58
			-	15:39:56
			admin	15:33:52
			-	15:30:25
			admin	15:29:10
10.2.3.4	10.2.3.4	Successful	-	2024-10-11 14:31:11
			admin	14:31:08
			-	14:30:24
			admin	14:20:56
10.0.0.2	10.0.0.2	Successful	-	12:32:14
			admin	12:31:11
			-	12:30:56
			admin	09:09:30
			-	09:09:21
10.2.3.4	10.2.3.4	Successful	admin	08:42:22
			-	08:42:14
10.32.150.131	10.32.150.131	Successful	admin	08:41:29
			-	08:39:27
			admin	08:39:22
			-	2024-10-10 17:39:49
			admin	17:39:38

The Web Server Logfile presents all access attempts and the date/time information with the corresponding status messages of the web server as well as the host name of the accessing computer. Unauthorized access attempts could be the the alarm bell for System Administrators that may want to revise the strength of their network.

22. Store backup configuration files in a safe place

Admin Menu > Configuration > Store and Save current configuration to local computer

MOBOTIX [Grid] [Print] [Refresh] [Close]

M1S mx10-42-1-27 Administration Overview [Help] [Info] [Add] [Remove]

- System Information
- Security
- Hardware Configuration
- Page Administration
- Network Setup
- MxMessageSystem
- Storage
- Logos and Image Profiles
- Transfer Profiles
- Audio and VoIP Telephony
- Camera Administration
- Configuration**
- Maintenance

- **Store** current configuration permanently (to flash) ← **1**
- **Reset** configuration to factory defaults
- **Restore** last stored configuration from flash
- **Load** configuration from local computer
- **Save** current configuration to local computer ← **2**
- **Show** current configuration (**raw version**)
- **Edit** configuration file (**Text Edit**)

Although camera credentials (user passwords) are hashed within the camera configuration file, any configuration backup file should be kept in a safe place; moreover it's advisable to encrypt the file with a passphrase for further security.

Congratulations – your MOBOTIX camera is cyber secure now!



VMS Configuration (Video Management System)



1. Create User Accounts on the computer in use
2. Create User Accounts on MxMC
3. Limit rights to VMS users
4. Avoid using admin account to access cameras via MxMC
5. Enable the "Auto log-off"

Congratulations – your Video Management System is cyber secure now!

NAS Configuration (Network Attached Storage)



1. Place the device used to store the footage in a safe place
2. Set a strong password for the administrative account
3. Set a standard user account (limited rights) for MOBOTIX devices
4. Encrypt the volumes
5. Use a RAID level that ensures data redundancy

Congratulations – your Network Attached Storage System is cyber secure now!