HOW TO.

Connect to AXIS Camera Station.



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Introduction

The purpose of this document is to explain how to connect to an AXIS Camera Station server from a computer or from a mobile app. You can connect to the server in different ways:

- Connect to the server from a local network
- Connect to the server from the internet:
 - via AXIS Camera Station Secure Remote Access
 - via port mapping (not recommended)

The information provided in this document is based on AXIS Camera Station 5.16 and higher. You can perform most steps in older versions but the interface might look different.

Prerequisites

MyAxis account

AXIS Camera Station 5.16 or later

Please note that AXIS doesn't take any responsibility for how this configuration may affect your system. If the modification fails or if you get other unexpected results, you may have to restore the settings to default.

Prepare your system

Before you can connect to the AXIS Camera Station server from a client device, you must prepare your system. The general preparation workflow is:

- 1. Install AXIS Camera Station Windows app
- 2. Create Windows users
- 3. Add Windows users to AXIS Camera Station Windows app
- 4. Configure the server's firewall
- 5. Install AXIS Camera Station mobile app

The steps you must perform depend on your system's configuration, the client's location and the network infrastructure.

About user and user groups

To connect to an AXIS Camera Station server from a client device you must have a Windows user with the correct permissions. This user can be the default administrator account on the Windows machine that the server is installed on, or a user that you've created.

AXIS Camera Station allows you to use both local Windows and domain users and user groups. If you use a domain setup, you must join the server to the domain. Your IT department might have to help you with this

On the physical server, you can use the current account, if using a Windows admin account, to connect the local client application to the AXIS Camera Station server.

- Log on as current user: If the current Windows user is added to the permission list on the server, select Log on as current user and click Log on. This option is mostly used on Domain setup.
- Log on as other user:
 - If the current Windows user is not added to the permission list on the server, clear Log on as current user and click Log on.
 - In the next page, select Other user. Enter the correct username and password and click Log on.

O Current user	
Other user	
User name:	MyUser
Password:	•••••
🗌 Remember m	ie
Log On	Change Server

A user or user group can have one of the following roles:

• Administrator:

- Full access to all functionality and all cameras and devices.
- Operator:
 - Full access to all functionality except Configuration menu, Configuration workspace, Device management page and Audit log.
 - Full access to selected cameras and I/O ports.
 - You can restrict access to playback and recording export.
- Viewer:
 - Access to live video from selected cameras.
 - Access to selected I/O ports.

Click **Advanced** under the different tabs for more options to customize the Operator and Viewer accounts.

Role	Role des	cription			
Administrator	None	·			
Operator	No role ha	s been specified	l yet. Please do so l	before pressir	ng OK.
Viewer			•		
O HENEI			Co.		
r 1					
∕ideo					
Video			Type to sea	irch	×
Video Cameras I/C	D Views	Playback	Type to sea	irch	×
		Playback	Type to sea	irch	×
Cameras I/C			Type to sea	irch	×
Cameras I/C Name			Type to sea	rch	×
Cameras I/O Name AXIS M2025-LE	Acc	cess	Type to sea	irch	×
Cameras I/C Name AXIS M2025-LE AXIS M3004	Acc Dverview	cess	Type to sea	rch	×
Cameras I/C Name AXIS M2025-LE AXIS M3004 AXIS M3047-P - C	Acc Dverview	cess	Type to sea		Advanced

Install AXIS Camera Station Windows app (client)

- 1. Download the Windows app from <u>https://www.axis.com/products/axis-camera-station/overview.</u>
- 2. Install the same Windows app version as the server version.

NOTE For AXIS Camera Station version 5 or later: If your client is on the same network as the server, and you update the server at a later date or install the wrong client version, the server provides the client with information about which version to use at the first connection.

Create Windows users

To use local Windows users and user groups, you must add them to the Windows server that AXIS Camera Station is installed on. We recommend that all users have their own account.

1. Go to **Computer Management > System tools > Local Users and Groups > Users**.



2. On the left-hand side, right-click the Users folder and select New user.

New User	
View	>
Refresh	
Export List	
Help	

- 3. Enter **User name**, **Full name** and **Password**. This is the user account that can login remotely to the AXIS Camera Station server.
- 4. Clear User must change password at next logon.

New User		?	×
User name:	MyUserName		
Full name:	Firstname Simame		
Description:			
Password: Confirm passwo	••••••		
	hange password at next logon		
_	change password		
User cannot			
User cannot	ever expires		
Password n			
Password n			

5. Click Create.

Add Windows users to AXIS Camera Station

After creating the Windows users, you must add them to the AXIS Camera Station.

- 1. Open AXIS Camera Station client and log in to the server with the current user.
- 2. Go to **Configuration > Security > User permissions**.

۵	Configuration +	
Туре	to search	×
%	Devices	~
	Storage	~
۲	Recording and events	~
Ý	Client	~
۵	Connected services	~
	Server	~
5	Licenses	~
٥	Security	^
Use	r permissions	

- 3. In the bottom right of the window, click Add.
- 4. Select the scope for which you want to add the account from.
 - Server: fetches the local users and groups.
 - **Domain**: fetches the domain users and groups.

		Add L	Jser/Group		2
Show	Scope		2		
✓ Users	O Server:	-	100.000		
Groups	Domair	n: 4.4754	407		
Augilabla	domain u	icore la	aroups		
Available	uomanii u	1Sel S/	groups		
Avallable	uomanii u	12612/	Type to search		×
Name	uomain u	Details	Type to search		×
Name		Details	Type to search	your searc	

- 5. Select the user and click **Add**.
- Select the role and permission level you want for the user and click OK. If you use a local account, we recommend you to login with that user as a test after adding it.

Configure the firewall on the server

During the installation, AXIS Camera Station automatically configures the Windows firewall exceptions for incoming traffic used by AXIS Camera Station. If you use a third-party firewall, you might have to request for a similar set of exceptions to be added to the configuration. In most cases only the "Inbound" port range of 55752 to 55757 requires an exception.

Port Number	Protocol	Inbound/ Outbound	Used by	Comments
80 & 443	HTTP & HTTPS	Outbound	ACS Server & Client to Internet	Activate license, download firmware, connected services, etc.
80	HTTP	Outbound	ACS Server & Device	Video stream & device data
5353	UDP	Outbound	ACS Server & Device	mDNS Discovery (Bonjour) search for cameras Multicast 224.0.0.251
1900	UDP	Outbound	ACS Server & Device	SSDP Discovery upnp search for devices Multicast 239.255.255.250
3702	UDP	Outbound	ACS Server & Device	WS-Discovery webservices discovery Onvif Multicast 239.255.255.250
55752	HTTP	Inbound	ACS Server & Client	Video, audio, metadata stream (AES encryption) If TCP fails on 55754, 55752 with HTTP is used for application data (AES encryption)
55754	ТСР	Inbound	ACS Server & Client	Encrypted application data (TLS 1.2 encryption)
55755	TCP	Inbound	ACS Server & Client	Server discovery SSDP/UPNP
55756	TCP	Inbound	ACS Server & Mobile App	Encrypted application data HTTPS Video stream MP4 over HTTPS
55757	TCP	Inbound	ACS Server & Mobile App	Video stream RTSP over HTTP
*50333	TCP	Inbound	ACS Server & 3rd party application	Application data for 3rd party applications using ACS API
*50334	TCP	Inbound	ACS Server & 3rd party application	Video port used by 3rd party applications using ACS API

The following table shows the different ports being used in a typical AXIS Camera Station setup.

Install AXIS Camera Station mobile app

- 1. Go to the appropriate app store and download the app. You find links to the app stores at: <u>https://www.axis.com/products/axis-camera-station/overview</u>
- 2. Install the latest version.

Connect to server from a local network

Connecting to the server while on the same Windows machine as the server requires no extra configuration past the installation.

- 1. Open the AXIS Camera Station Windows app on the physical machine used to run the AXIS Camera Station service.
- 2. Select **This computer**" and **Log on as current user**. Clear **Log on as current user** to use a different Windows user.
- 3. Click Log on.

AXIS Camera Station
Connect to server(s)
 ○ Last used servers (● This computer ○ Remote server: ✓ Log on as current user Axis Secure Remote Access >
Log On

Connect from a remote Windows app (client)

- 1. Open the AXIS Camera Station Windows app.
- 2. Select Remote server.
- 3. Select a server in the list or type the IP address of the AXIS Camera Station server. If Simple Service Discovery Protocol (SSDP) is allowed on the local network you can expand the dropdown list to view all local servers.

Connect to server(s)	
 Last used servers This computer Remote server: Axis Secure Remote & AXISNVR-S2008 	772.25,199.57
Log On	112,23,135,37

Connect from the mobile app

- 1. Open the AXIS Camera Station mobile app.
- 2. Click Add system and enter the local IP or local server name.

Address Address SIGN IN All and port mapped ADD CVCTTM	stems :	X Add a system
Secure Remote Access systems. 195.60.60.100 SIGN IN Mobile port al and port mapped Username MyDomain\MyUser	xis Secure Remote Access	
al and port mapped Username MyDomain\MyUser	ign in to your MyAxis account to access your xis Secure Remote Access systems. SIGN IN	195.60.60.100
	ADD SYSTEM	Username

- 3. If you don't use the default values, adjust the port number accordingly.
- 4. Log in with the Windows account you've configured on the server. You only have to log in the first time you access a specific server. The mobile app saves your username and password.

Depending on your system configuration, you might have to use the format "domain\user" or "servername\user".

Connect to server via AXIS Camera Station Secure Remote Access

About Axis Secure Remote Access

Secure remote access allows a client or mobile app to connect a server without the need of a port forward. When a secure peer-to-peer connection is established between the client or mobile app and the server, there is no limitation in data transfer.

When direct communication cannot be established, the communication is relayed through the mediator servers. The complimentary relayed data transfer is 1GByte per month per MyAxis user.

For more information about Axis Secure Remote Access, go to: <u>https://www.axis.com/technologies/axis-secure-remote-access</u>

The requirements for AXIS Camera Station Secure Remote Access are:

- AXIS Camera Station 5.12 or higher
- Internet access (If using a proxy server, see section <u>Server proxy settings</u>)
- A MyAxis account. All servers, clients and mobile apps that want access to the system use this account.

Configure the server

- 1. From the same network as the server, log on to the AXIS Camera Station server with an administrator user.
- 2. Go to Configuration > Connected services > Axis Secure Remote Access.
- 3. Sign in to your MyAxis account.

Configuration	
Type to search	× MyAxis Account
🔏 Devices	 A MyAxis account allows a user to benefit from services such as Axis Secure Remote Access and aut If you do not have a MyAxis account, you can register one for free here:
🛢 Storage	http://www.axis.com/login/registration
Management	Password:
Selection	Apply
Recording and events	Axis Secure Remote Access
🖆 Client	AXIS SECURE REMOLE ACCESS When Secure Remote Access is enabled you can access this server with your Axis Camera Station cli
 Connected services 	which MyAxis account you would like to use for remote access. Then download the mobile app from Play. <u>View Terms of Use</u>
Firmware upgrade settings	Enable
Axis Secure Remote Access	Georgie Play
Software upgrade settings	
Server	~ □

Connect from the Windows app (client)

1. Open the AXIS Camera Station Windows app.

2. Click Axis Secure Remote Access.

Connect to server(s)	
 Last used servers This computer Remote server: Axis Secure Remote Access > 	• s
Log On	

3. Enter the same MyAxis account as you used when you configured the server.

	MyAxis Account	×
Enter your MyAxis accoun your devices.	t to be able to check for new firmware ve	ersions for
E-mail address: Password:	myemailaddress@axis.com]
	HelpOK	Cancel

4. Select **Remote server** and a server from the list. The server displays as "ServerName (Secure Remote Access)".

L	Connect to server(s)
L	O Last used servers O This computer
L	Remote server: Axis Secure Remote ACCESS)
Ŀ	Log On

5. Click Log on.

Connect from the mobile app

1. Open the AXIS Camera Station mobile app.

2. Click Sign in.



3. Enter the same MyAxis account as you used when you configured the server.

×	Remote access
_	n in with your MyAxis ount
myer	nailaddress@axis.com
	SIGN IN
Privac	
	<u>, banat</u>

4. Select a server.



5. Log in with the Windows account you've configured on the server. You only have to log in the first time you access a specific server. The mobile app saves your username and password.

Depending on your system configuration, you might have to use the format "domain\user" or "servername\user".

×	System login
	\bigcirc
	AXISNVR-S2008
💄 My	Domain\MyUser
∂ ····	
	LOG IN

Connect to server via port mapping



About port mapping

To connect to your server from a remote location you can do port mapping on your router. Depending on your network's infrastructure, you might have to involve your network administrator to perform this part of the configuration.

Configure the server

- 1. On the router connecting the AXIS Camera Station server to the internet, open the following ports:
 - To allow client connection: 55752 and 55754
 - To allow mobile connection: 55756 and 55757

Connect from the Windows app (client)

- 1. Open the AXIS Camera Station Windows app.
- 2. Select Remote server.
- 3. Type the public IP or fully qualified name of the network where the AXIS Camera Station server is installed.

Connect to server(s)	
 ○ Last used servers ○ This computer ● Remote server: 93.x.x.x:59001 ✓ Log on as current user Axis Secure Remote Access > 	• S
Log On	

4. If your port forwarding rules don't use the default port, add "**:port#**" in the address. Example: "myserver.axis.com:60009"

Connect from the mobile app

1. Open the AXIS Camera Station mobile app.

2. Click Add System and enter the public IP or public fully qualified name

vstems :	X Add a system
s Secure Remote Access	Enter your AXIS Camera Station server information.
n in to your MyAxis account to access your s Secure Remote Access systems. SIGN IN	Address 195.60.60.100 Mobile port
	55756
and port mapped	Username MyDomain\MyUser
ADD SYSTEM	Password

- 3. If you don't use the default values, adjust the port number accordingly.
- 4. Log in with the Windows account you've configured on the server. You only have to log in the first time you access a specific server. The mobile app saves your username and password.

Advanced settings

Server proxy settings

If your server is on a network requiring proxy setting to get out to the internet you may need to add the proxy information to the service.

- 1. Open AXIS Camera Station Service Control.
- 2. Stop the service.
- 3. Select Modify settings.
- 4. Adjust the proxy settings.
- 5. Click Save.
- 6. Start the service.

<u> </u>	_				-			
General	Da	tabase	Devel	oper API	Тоо	ls		
Server se	ettir	ngs						
Server name:		MyServe	ar					
Server HTTP port: 55752								
Server TCP p	ort:	55754		Mobile po	rt: 557	56		
Proxy se	ttin	qs						
O Direct connection								
-								
 Use man 			ngs					
-	ual pr	roxy settir	-	:om	Port:	3128	3	
Use man Address:	ual pr mypro	roxy settir oxyserver.	domain.					
Use man Address:	ual pr mypro	roxy settir oxyserver.	domain.	:om Iresses beg				
Use man Address:	ual pr mypro	roxy settir oxyserver.	domain.]
Use man Address:	ual pr mypro	roxy settir oxyserver.	domain.					
Use man Address: Do not	ual pr mypro use p	roxy settir oxyserver. roxy serve	domain.« er for ade	lresses beg				
Use man Address: Do not Use sen	ual pr mypro use p nicolo	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		
Use man Address: Do not Use sen	ual pr mypro use p nicolo	roxy settir oxyserver. roxy serve	domain.« er for add	lresses beg	inning	with		
Use man Address: Do not Use sen	ual pr mypro use p nicolo	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		
Use man Address: Do not Use sen	ual pr mypro use p nicolo	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		
Use man Address: Do not Use sen Alw	ual pr mypro use p nicolc vays b	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		
Use man Address: Do not Use sen Alw	ual pr mypro use p nicolc vays b	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		
Use man Address: Do not Use sen Alw	ual pr mypro use p nicolc vays b	roxy settir oxyserver. roxy serve	domain.« er for add	Iresses beg entries.	inning	with		

Client proxy settings

If you use an Windows app that requires a proxy to access certain websites you need to configure the AXIS Camera Station client to use the same proxy server.

1. Open the AXIS Camera Station Windows app.

2. Click Change client proxy settings.



3. Adjust the settings as required and click **OK**.



Port mapping more than one server

If you run more than one server on the same network requiring port mapping, you must change the AXIS Camera Station default port (55752). Each server must have a unique port.

For each server do the following:

- 1. Open AXIS Camera Station Service Control.
- 2. Stop the service
- 3. Select Modify settings.

۰	AXIS Camera Station Service Control X								
Modify settings Restore Default Settings									
(General	Dat	tabase	Devel	oper API	Tools			
S	erver s	ettin		1					
Se	erver name		MyServe	r					
S	erver HTTP	port:	55752						
Se	erver TCP p	oort:	55754		Mobile po	rt: 55756			

- 4. Edit the HTTP port, all other ports adjust to their expected number.
- 5. Save and start the service again.
- 6. Use the new port range for the port forward.