

Monitoring AXIS Cameras over Dynamic DNS Connectivity

Introduction

This document explains the configuration for monitoring Axis cameras from Security Management System; when the Axis cameras are available on internet through dynamic DNS.

This document is applicable to Axis camera models which support 'stream profiles' The Axis cameras are configured for access over internet through dynamic DNS. It is possible to connect to the Axis cameras from web browser on any computer with internet connectivity.

The configuration includes 2 parts –

- (a) One time set up of the Axis camera
- (b) Parameter configuration in Security Management System server software



Axis camera configuration

- 1. Please access the Axis camera from standard web browser
- 2. Switch to the 'Setup' menu, which provides access to camera configuration.
- 3. Access 'Video & Audio -> Stream Profiles' page. This page displays the list of configured stream profiles.

	95635- Е	Mk II Network Camera	Live View Setup Help		
• Basic Setup	Stream	Profile List	0		
video & Audio	Stream Profile List				
Stream Profiles Onver media promes Camera Settings Overlay Image Privacy Mask Audio Settings Audio Clips	Name	Description	Video enc.		
Live View Config					
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Detectors	Add	Copy Modify Remove			
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- 4. Click on the 'Add...' button to add new stream profile.
- 5. This will pop up the 'Stream Profile Settings' window



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A http://bsnrouter3. dyndns.org /operator/streamprofile.shtml?id=57&action=modify&profilenbr=0
Stream Profile Settings
Profile name: HighResMJPEG Video encoding: MJPEG V
Description:
Image Audio H.264 MJPEG
Time of the second se
✓ Resolution: 1280x720 ✓ pixels
Compression: 30 [0100]
Video Stream
Maximum frame rate:
Unlimited
Limited to 0 [125] fps
Overlay Settings
✓ Text and/or image overlay
✓ Include date ✓ Include time
Text overlay size: medium V
Text color: white V Text background color: black V
Place text/date/time at top ♥ of image
Include image overlay (using default image and coordinates).
Preview
View image while configuring. Show
OK Cancel

6. Type 'Profile name' as 'HighResMJPEG'.

It is possible to specify any valid string as 'Profile name', however for ease of identification we will be using this specific name. Please note that this same name string will be used in Security Management System server software configuration, which is described in the later section of this document. Hence if any other name is specified here, same needs to be used during the Security Management System server software configuration.

 Select 'Video encoding' as 'MJPEG' Under 'Image' tab, enable 'Resolution' and select '1280x720' option All other settings can be kept unchanged



8. Click on 'OK' button to save the changes and to close the 'Stream Profile Settings' window

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• Basic Setup	Stream Profile List					
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	Name Description	Video enc.				
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Languages						
System Options						
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- 9. Click on the 'Add...' button to add new stream profile.
- 10. This will pop up the 'Stream Profile Settings' window



😂 Video Stream/Profile Settings - AXIS P5635-E Mk II Network Cam 😑 🗖	x
A http://bsnrouter3.dyndns.org/operator/streamprofile.shtml?id=48&action=add	
	~
Stream Profile Settings	
Stream Profile	
Profile name: LowResMJPEG Video encoding: MJPEG V	
Description:	
Image Audio H.264 MJPEG	
Image Appearance	
Resolution: 320x180 V pixels	
✓ Compression: 30 [0100]	
Video Stream	
Maximum frame rate:	
Unlimited	
C Limited to 25 [125] fps	
Overlay Settings	
✓ Text and/or image overlay	
✓ Include date ✓ Include time	
Include text:	
Text overlay size: medium 🗸	
Text color: white V Text background color: black V	
Place text/date/time at top V of image	
Include image overlay (using default image and coordinates).	
Preview	
View image while configuring. Show	
OK Cancel	~

11. Type 'Profile name' as 'LowResMJPEG'.

It is possible to specify any valid string as 'Profile name', however for ease of identification we will be using this specific name. Please note that this same name string will be used in Security Management System server software configuration, which is described in the later section of this document. Hence if any other name is specified here, same needs to be used during the Security Management System server software configuration.

12. Select 'Video encoding' as 'MJPEG'

Under 'Image' tab, enable 'Resolution' and select '320x180' option All other settings can be kept unchanged



13. Click on 'OK' button to save the changes and to close the 'Stream Profile Settings' window

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Video & Audio	Stream Profile List				
Video Stream	Name	Description	Video enc.		
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Camera Settings	LUWNESHIDPEG		1668		
Overlay Image					
Privacy Mask					
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Live View Config					
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Detectors	Add 0	Copy Modify Remove			
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Security Management System server software configuration

- 1. Execute 'Security Management System server software'.
- 2. Navigate to 'Video devices -> Channels' page.
- 3. Click on the 'Add video channel..' button.
- 4. This will pop up the 'Add video channel' dialog box

		Add vide	eo channel			×
	Channel Name: Channel ID: Channel Description:	Cam409 VC_ Car Cam409	n409			
(Video Source Type:	Axis IP De	vice <mark>(</mark> Stream Pr	ofile Support)		v
	IP address or name: User name: Password: HTTP port: RTSP port: Camera number: Audio support:	snrouter3 root 80 554 1	.dyndns.org			
Display stream 1			Display strea	am 2		
Stream type:	MJPEG V	_	Select stre	am: Use differer	nt stream	~
Profile:	LowResMJPEG	-	Stream ty Pro	rpe: MJPEG file: HighResMJI	PEG	
-Recording strear Select stream: Stream type: Profile:	n Use display stream 1 H.264 v Bandwidth	▼	-Motion detec Select strea Stream ty Pro	tion and video ar am: Use display pe: H.264 file: Bandwidth	nalytics stream stream 1	~
		4	0		20	

5. Select 'Video Source Type' as 'Axis IP Device (Stream Profile Support)' Type 'IP address or name'. This is IP address or dynamic DNS name of the target Axis camera Type 'User name' and 'Password', which will be used for authorization while connecting to the

camera

Specify 'HTTP port' Keep 'RTSP port' unchanged.

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Keep 'Camera number' as 1.

Under 'Display stream 1', select 'Stream type' as 'MJPEG' and 'Profile' as 'LowResMJPEG'. This string should match with the low resolution stream profile configured in the camera, as described in 'Axis camera configuration' section of this document.

Under 'Display stream 2', select 'Select stream' as 'Use different stream', select 'Stream type' as 'MJPEG' and 'Profile' as 'HighResMJPEG'. This string should match with the low resolution stream profile configured in the camera, as described in 'Axis camera configuration' section of this document.

Under 'Recording stream', select 'Select stream' as 'Use display stream 1'

Under 'Motion detection and video analytics stream', select 'Select stream' as 'Use display stream 1'

6. Click on 'Add' button to finish adding the camera and to close the 'Add video channel' dialog box