

Genetec™ Integration

Introduction

IX Series video door stations can integrate with Genetec[™] software, using ONVIF[™] to stream video and SIP to place phone calls. This guide covers station integration with Genetec Sipelia and Security Center software. This guide does not cover the installation of Security Center or any plugins. It also assumes that IX Support Tool has been installed and basic programming is complete. IX Support Tool can be downloaded here: <u>https://www.aiphone.com/IX-SupportTool</u> IX QuickStart Guide can be downloaded here: <u>https://www.aiphone.com/IX-Series-QuickStartProgrammingGuide</u>

Navigating IX Support Tool

There are two main sections in IX Support Tool: the top menu and the left menu. These menus will have a main directory, followed by a subdirectory. The different formats described below are meant to help differentiate between the top and left menus.

Instructions pointing to the top menu will be in the format of *Italics*, <u>Underlined</u>. Example: *File(F)*, <u>Upload Settings to Station</u>. Instructions pointing to the left menu will be in the format **Bold**, <u>Underlined</u>. Example: **Call Settings**, <u>Incoming Call</u>.

Buttons or settings that need to be clicked will be marked with an orange pointer. If multiple items need to be clicked in the same screenshot, they will be marked with numbers to show the proper order. Important items will be marked with an orange box.

There is an **Update** button in the top right of IX Support Tool. Clicking this saves the settings locally, but they are not pushed to the stations until they are uploaded.



ONVIF Streaming (IX Support Tool Settings)

Each video station will need to be assigned credentials to enable video streaming. In IX Support Tool, navigate to **Station Information**, ID and Password. Add an **ONVIF ID**, **ONVIF Password**, **RTSP ID**, and **RTSP Password**. Once everything is filled out, click **Update**.

	Station Information			Station Information								
	Identification	n			ID and Password	D and Password						
#	Number	Name	Location	Station Type	Administrator ID	Administrator Password	User ID	User Password	ONVIF ID	ONVIF Password	RTSP ID	RTSP Password
0001	0001	Master Station1		IX-MV7-*	aiphone	*******			streaming	*****	streaming	*****
0002	0002	Video Station1		IX-DV, IX-DVF(-*)	aiphone	*******			streaming	*****	streaming	*****
0003	0003	Video Station2		IX-DV, IX-DVF(-*)	aiphone	******			streaming	*****	streaming	*****



ONVIF Streaming (Genetec Config Tool Settings)

Log in to the Genetec service using the Genetec Config Tool. Navigate to **Administration**, <u>Video</u>. Click **+Video Unit** in the bottom left of the screen.



Manually add each door station as a camera by entering its IP address, the **ONVIF ID** and **Password** of the station. Set the HTTP port to **10080** and the manufacturer to **ONVIF**. Click **Add** to complete the process. Repeat these steps for each station to be configured.

Manual add	
Manufacturer:	
Product type:	
IP address:	192 . 168 . 159 . 23 🚭 Hostname IPv6
HTTP port:	10080 🗘 📀
Authentication:	 Default logon Specific
Username:	streaming
Password:	••••••
Use HTTPS:	OFF
Location:	GENETEC-SC510
Add	Close Add and close

Sipelia Registration (Sipelia Settings)

Stations can be registered to Sipelia to place calls to a phone number or extension. Log in to Genetec Config Tool. Click **Plugins** under **Administration**. Click the caret next to Sipelia to expand the options. Click **Add Intercom** at the bottom of the screen.





A window will appear. Enter a descriptive name for the intercom and click Add.



Assign the intercom an extension and a password. This can either be entered manually, or clik **Auto-assign** to apply the next available extension. Click **Apply** to save the SIP settings. Repeat these steps for each station to be registered.



Sipelia Registration (IX Support Tool Settings)

In IX Support Tool, navigate to **Station Information**, Identification. Make sure that each station's number matches the extension assigned in Sipelia. Once everything is filled out, click **Update**.

	Station Information								
	Identification								
#	Number Name Location Station T								
0001	1001	Master Station1		IX-MV7-*					
0002	1002	Video Station1		IX-DV, IX-DVF(-*)					
0003	1003	Video Station2		IX-DV, IX-DVF(-*)					



Adding SIP Server Information

In IX Support Tool, navigate to **Network Settings**, <u>SIP</u>. Under **Primary Server**, add the **ID** and **Password** assigned to the stations in Sipelia. Enter the IP address of the PBX under **IPv4 Address**. If needed, Secondary and Tertiary SIP server information can be added by scrolling to the right. Once everything is configured, click **Update**.

Station Information					Network Settings				
Identification	n	SIP							
			Primary Server						
Number	Name	Location	Station Type	1ode	ID	Password	IPv4 Address		
1001	Master Station1		IX-MV7-*		1001	*****	192.168.30.122		
1002	Video Station1		IX-DV, IX-DVF(-*)		1002	*****	192.168.30.122		
1003	Video Station2		IX-DV, IX-DVF(-*)		1003	*****	192.168.30.122		



VoIP Phone Registration

In IX Support Tool, navigate to *Edit(E)*, <u>VOIP Phone List</u>. Enter the SIP extensions that the stations will call, which can either represent a single IP Phone, a call group's extension, or a hunt group's extension. Click **Update**.

L Certaii	ocation Registry	To delete To delete	VoIP Phone, all line item rrectly on IX-MV7-* and I	ns must be blank. IX-MV7-*T due to font type.
		Static	on List Text in red	are required settings.
#	Number	Name	Location	^
0001	2012	Reception		
0002				
0011				
0012				
nn12 <				>



Calling an IP Phone (Door / Sub Station)

The door stations will need to be configured to call the registered VoIP extension. Navigate to **Call Settings**, <u>Called Stations (Door/Sub</u><u>Stations</u>). The calling doors are listed as the rows in this spreadsheet, while the call destinations are the columns. Scroll right to find the column for the extension and use the drop-down menu to change the blank field to a **U**. Click **Update**.

Station Info	Station Information				Call Settings				
Identification				Called Stations (Door/Sub Stations)					
				Total	Group 01				
Number	Name	Location	Station Type		Number / Name / Station Type	nber / Name / Station Type			
					1001 / Master Station1 / IX-MV7-*	1002 / Video Station1 / IX-DV, IX-DVF(-*)	1003 / Video Station2 / IX-DV, IX-DVF(-*)	2012 / Reception / VoIP Phone	
1002	Video Station1		IX-DV, IX-DVF(-*)	1	U				
1003	Video Station2		IX-DV, IX-DVF(-*)	1	U				
								U	

■> Update	Each station can only call a single VoIP extension. Multiple stations can be configured to call the same extension.	

Configuring Door Release (Optional)

IX Series door stations have built in contacts that can be used for door release. These can be activated by third party IP phones by inputting the door station's Door Release Authentication Key. However, by default, IX Support Tool assigns stations a twenty digit key, so the key will need to be shortened.

Navigate to **Option Input / Relay Output Settings**, <u>Relay Output</u>. Scroll right to find a column labeled **Door Release Authorization**. For each door station to be released, select the cell and type in the desired number. Repeat this for each door station; this does not need to be modified for master stations. Click **Update**.

Identification			Relay Output			
				Relay Output 1 (Output Time is val	id when Relay Output function is	set to Door Release or is controlled by CGI.)
Number	Name	Location	Station Type	Output Time Range	Output Time	Door Release Authorization
1001	Master Station1		IX-MV7-*	3-600 [sec]	5	55403587966492975196
1002	Video Station1		IX-DV, IX-DVF(-*)	3-600 [sec]	5	9
1003	Video Station2		IX-DV, IX-DVF(-*)	3-600 [sec]	5	9



Changing the authentication key here will prevent any IX Series master stations from being able to unlock the door. To correct this, navigate to **Function Settings**, <u>Door Release</u>. The master stations will be represented by the rows on the page. Where they intersect with the columns for the door stations that had their keys changed, enter the new key. Click **Update**.

Identification		Door Release						
		Door Release Assignme	oor Release Assignment					
Number	Name	Location	Station Type	0001 / 1001 / Master Sta	ation1 / / IX-MV7-*	0002 / 1002 / Video Station1 / / IX-DV, IX-DVF(-*)		
				Contact Assignment Authentication Key		Contact Assignment	Authentication Key	
1001	Master Station1		IX-MV7-*		-	Destination Station	9	



Video Encoder Settings

IX Series Stations stream video to IP phones during communication by default. However, some phone models may require that the stream's settings be changed. Navigate to **Network Settings**, <u>Video</u>. Use the **Select Profile [H.264/AVC]** to change the video profile. The most common choice is Baseline. Once everyting is configured, click **Update**.

		Video Station					
Number	Name	Location	Station Type	SIP Channel			
				Resolution	Wide View	Frame Rate [fps]	Select Profile [H.264 / AVC]
1001	Master Station1		IX-MV7-*				
1002	Video Station1		IX-DV, IX-DVF(-*)	640x480(VGA)		15	Baseline
1003	Video Station2		IX-DV, IX-DVF(-*)	640x480(VGA)		15	Baseline 🛛 🗠
				•			



Configuring a Door Station to Answer a Call (Optional)

By default, an IX Series door station will not answer a call from a third-party IP phone like they would from a master station. There are two ways to address this, depending on the site's needs. Either the door station's call button can be configured to also answer incoming calls, or enhanced firmware can be installed on the door station to let it auto-answer calls.

Answering Calls with the Call Button

Navigate to **Call Settings**, <u>Station Information</u>. For each door station, use the drop-down menu under **Call Button Function** to change the setting from Call to Call, Answer Call, End Communication. Click **Update** to save the settings.

Identificati	on			Station Information	
Number	Name	Location	Station Type	Call Button Function	
1002	Video Station1		IX-DV, IX-DVF(-*)	Call	
1003	Video Station2		IX-DV, IX-DVF(-*)	Call	
				Call, Cancel Call, End Communication	
				Call, Answer Call, End Communication	



Enabling Auto-Answer

To use this feature, the station needs to have the enhanced firmware installed. In a web browser, navigate to <u>https://www.aiphone.com/kbtopic/firmware-ix-ixg</u>. Scroll down the page to find the appropriate firmware for the stations to be configured, which will be labeled as enhanced. Click **Download Firmware**.



The firmware would usually be updated through IXG Support Tool, which is shown on the next page. For IX Series stations with a starting firmware version below 5.0, use the Aiphone IX Firmware Upgrade Tool instead. IXG Series stations have a different firmware numbering scheme and do not use this tool.

The upgrade tool can be downloaded here: https://www.aiphone.com/IX-FirmwareUpgradeTool

Enabling Auto-Answer (continued)

The firmware update will download in a compressed folder. Use the programming PC's built in functions to extract it. In IX Support Tool, navigate to **Maintenance**, Firmware Update. For each type of door station to be updated, click **Browse** to select the extracted .bin file.

Update	Firmware
Select Firmware files:	
IX-MV7-*	Browse
IX-RS-*	Browse
IX-DV, IX-DVF(-*)	Browse
IX-DVM	Browse
IX-SSA(-*)	Browse
IX-EA, IX-EAU	Browse
IX-FA	Browse
IX-SS-2G	Browse
IX-SPMIC	Browse
IXW-MA	Browse
IX-MV	Browse
IX-DA	Browse
IX-BA	Browse

Put a checkmark next to the door stations to be updated under the **Select** column under Station List. Click Update.

Select Station(s) to update:								
То	To check the current firmware version, go to "Tool -> Station Search".							
		Station List			Text in red are required settings.			
Sele	ect	Number	Name	Location	Station Type	Status		^
		1001	Master Station1		IX-MV7-*	-		
	1	1002	Video Station1		IX-DV, IX-DVF(-*)	-		
	2	1003	Video Station2		IX-DV, IX-DVF(-*)	-		
								~
<							>	
Select Station by Type:								
All			~ Se	elect	Unse	lect		
							Update	
_							•	

Do not unplug or otherwise interrupt the firmware update process, since it may damage the stations. This process will take several minutes, and the stations will reboot several times.

Upload Settings to Stations

To push the settings to the stations, navigate to *File(F)*, <u>Upload Settings to Stations</u>. Click **Select** with Select Station by Type set to All, and then click **Settings**. The upload process will begin and may take several minutes.

Setting File Upload								
Select the station(s) to upload the Setting File(s):								
Station List Text in red are required settings.								
Select	Number	Name	Location	Station Type	Status			^
	1001	Master Station1		IX-MV7-*	-			
	1002	Video Station1		IX-DV, IX-DVF(-*)	-			
\checkmark	1003	Video Station2		IX-DV, IX-DVF(-*)	-			
¢								~
Select Station by Type: All								
Settings			Sounds		Im	age	Schedule	

Exporting the Program File

Navigate to *File(F)*, <u>IX Support Tool Export System Configuration</u>. Click **Export** and choose a destination to place the configuration folder, then click **Finish** to close the window. This entire folder is needed to import the settings into a copy of IX Support Tool on another PC.

	Export Settings	
ι	Jse Export button to back up the system configuration files .	
ſ		
l		
	Finish	