

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: <https://www.aiphone.com/IX-SupportTool>

IX QuickStart Guide can be downloaded here: <https://www.aiphone.com/IX-Series-QuickStartProgrammingGuide>

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 *File(F)*, Upload Settings to Station.

Instructions pointing to the left menu will be in the format **Call Settings**, Incoming Call.

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)

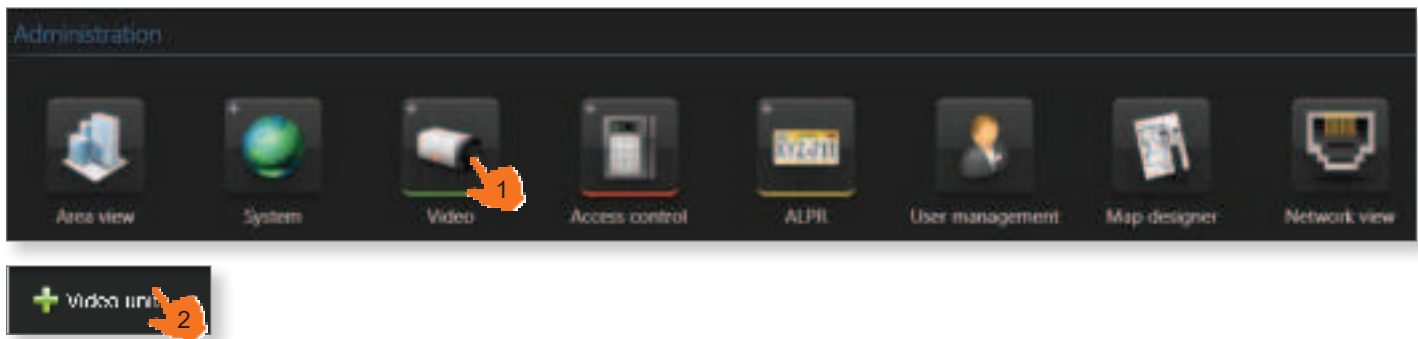
Each video station will need to be assigned credentials to enable video streaming. In IX Support Tool, navigate to **Station Information**, **ID and Password**. Add an **ONVIF ID**, **ONVIF Password**, **RTSP ID**, and **RTSP Password**. Once everything is filled out, click **Update**.

Station Information				Station Information							
Identification				ID 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 (X4-64) (*)	aiphone	*****			streaming	*****	streaming	*****
0003	0003	Video Station2	IX DV (X4-DVE) (*)	aiphone	*****			streaming	*****	streaming	*****

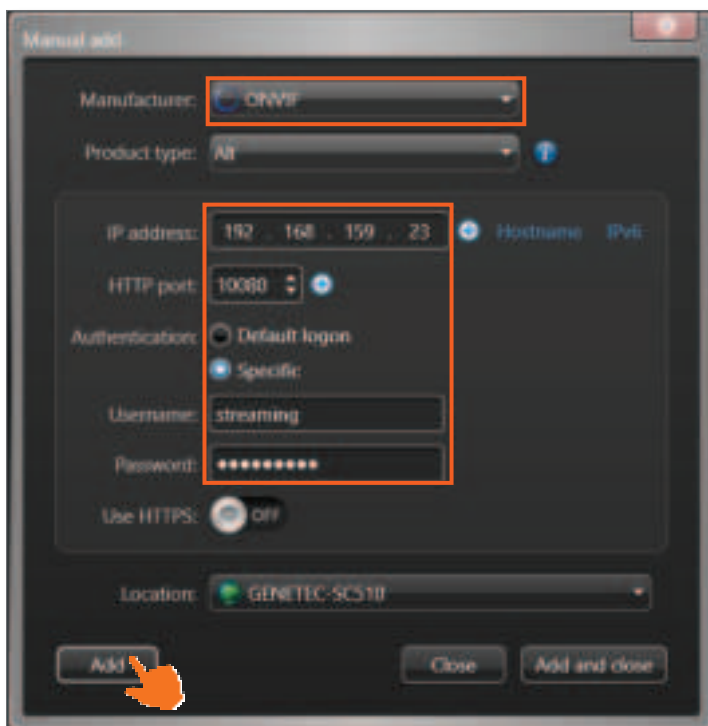


ONVIF Streaming (Genetec Config Tool Settings)

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

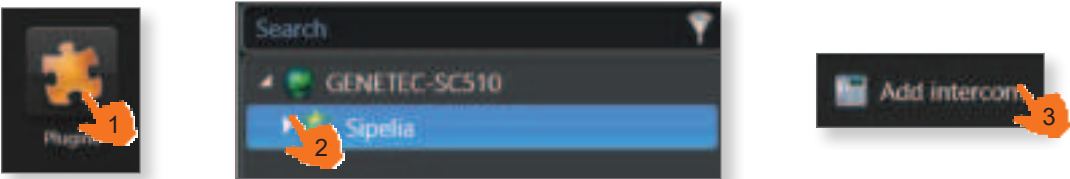


Manually add each door station as a camera by entering its IP address, the **ONVIF ID** and **Password** of the station. Set the HTTP port to **10080** and the manufacturer to **ONVIF**. Click **Add** to complete the process. Repeat these steps for each station to be configured.

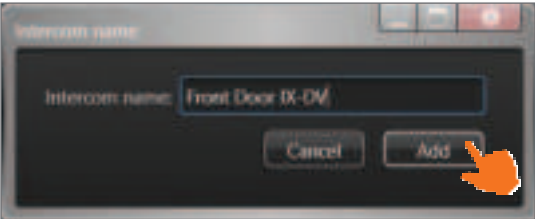


Sipelia Registration (Sipelia Settings)

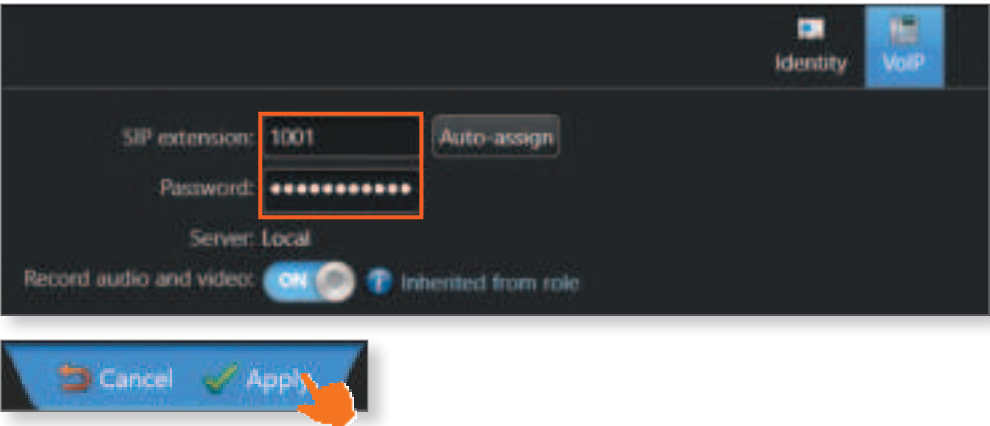
Stations can be registered to Sipelia to place calls to a phone number or extension. Log in to Genetec Config Tool. Click **Plugins** under **Administration**. Click the caret next to Sipelia to expand the options. Click **Add Intercom** at the bottom of the screen.



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 click **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				
ID	Identification			
	Number	Name	Location	Station Type
0001	1001	Master Station 1		IX-M7 (*)
0002	1002	Video Station 1		IX-DW, IX-DW (*)
0003	1003	Video Station 2		IX-DW, IX-DW (*)



Adding SIP Server Information

In IX Support Tool, navigate to **Network Settings**, SIP. 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				SIP		
Number	Name	Location	Station Type	Code	Primary Server	
					ID	Password
					IPv4 Address	
1001	Master Station1		0X-0001 (*)		10001	00000000
1002	Video Station1		0X-0001, 0X-0001 (*)		10002	00000000
1003	Video Station2		0X-0001, 0X-0001 (*)		10003	00000000



VoIP Phone Registration

In IX Support Tool, navigate to *Edit(E)*, VOIP Phone List. 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**.

VoIP Phone Registration

Location Registry

To add a call group, all the members must be added.

To add a hunt group, all the members must be added in the hunt group and in the hunt group's call group.

Station List

To add a call group, all the members must be added.

#	Number	Name	Location
0001	2012	Reception	
0002			

0011

0012

0013

C

Update

Cancel

i If calling a call or hunt group, the individual extensions of that group's members do not need to be added.

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**, **Called Stations (Door/Sub Stations)**. 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 Information				Call Settings			
Identification				Called Extension (Desired Call Extension)			
Number	Name	Location	Station Type	Station Type	Station Type	Station Type	Station Type
1001	Master Station 1	1001-1001-1001	1	1001-1001-1001	1001-1001-1001	1001-1001-1001	1001-1001-1001
1002	Video Station 1	1002-1002-1002	1	1002-1002-1002	1002-1002-1002	1002-1002-1002	1002-1002-1002



i 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**, **Relay Output**. 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 valid when Relay Output function is set to Door Release or is controlled by OBI)			
Number	Name	Location	Station Type	Output Time Range	Output Time	Door Release Authorization	
1001	Master Station 1	1001-1001-1001	1001-1001-1001	3-600 (sec)	5	55400001/00000000/0100	
1002	Video Station 1	1002-1002-1002	1002-1002-1002	3-600 (sec)	5		
1003	Video Station 2	1003-1003-1003	1003-1003-1003	3-600 (sec)	5		



i Some IX stations will have more than one relay output. Even on these stations, Relay Output 1 is most commonly used for door release. To switch outputs, use the Display Settings drop-down menu at the top of this page.

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**, **Door Release**. 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**.

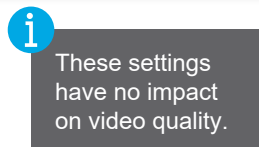
Identification				Door Release			
				Door Release Assignment			
Number	Name	Location	Station Type	Door Release Assignment	Door Release Assignment	Door Release Assignment	Door Release Assignment
1001	Master Station 1	1001-1001-1001	1001-1001-1001	1001-1001-1001	1001-1001-1001	1001-1001-1001	1001-1001-1001



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**, **Video**. Use the **Select Profile [H.264/AVC]** to change the video profile. The most common choice is Baseline. Once everything is configured, click **Update**.

Number	Name	Location	Station Type	Video Settings			
				SIP Channel	Resolution	Video Frame Rate (fps)	Select Profile [H.264/AVC]
1001	Master Station1		IX-MV7*				
1002	Video Station1		IX-DV, IX-DVF (*)	840x480(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**, **Station Information**. 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.

Identification				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 <https://www.aiphone.com/kbtopic/firmware-ix-ixg>. 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 file:

IX-MV7*		Browse
IX-DV*		Browse
IX-DV, IX-DVF (-1)		Browse
IX-DVM		Browse
IX-DVM(-1)		Browse
IX-DV, IX-DVF		Browse
IX-DV		Browse
IX-DVF(-1)		Browse
IX-DVMK		Browse
IX-DVM		Browse
IX-MV		Browse
IX-DV		Browse
IX-DV		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:

Station List

Select	Number	Name	Location	Station Type	Status
<input type="checkbox"/>	1001	Master Station1		IX-MV7*	-
<input checked="" type="checkbox"/>	1002	Video Station1		IX-DV, IX-DVF(-1)	-
<input checked="" type="checkbox"/>	1003	Video Station2		IX-DV, IX-DVF(-1)	-

Select Station by Type:
All Select Unselect

Update

i 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)*, Upload Settings to Stations. Click **Select** with Select Station by Type set to All, and then click **Settings**. The upload process will begin and may take several minutes.

Select	Number	Name	Location	Station Type	Status
<input checked="" type="checkbox"/>	1001	Master Station1		(X-M/7L*)	-
<input checked="" type="checkbox"/>	1002	Video Station1		(X-DV, IX-DVF(-)*)	-
<input checked="" type="checkbox"/>	1003	Video Station2		(X-DV, IX-DVF(-)*)	-

Select Station by Type: All

Select

Unselect

Select file type to be uploaded:

Settings

Sounds

Image

Schedule

Exporting the Program File

Navigate to *File(F)*, IX Support Tool Export System Configuration. 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

Use Export button to back up the system configuration files

Export

Finish

For more details about the features and information above, please contact Technical Support.