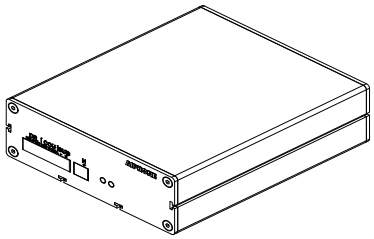
AIPHONE®

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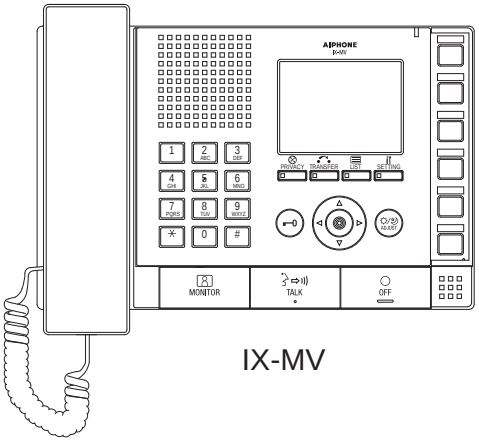
IX SERIES

IX-1AS / IX-10AS 2-Wire Network Adaptor

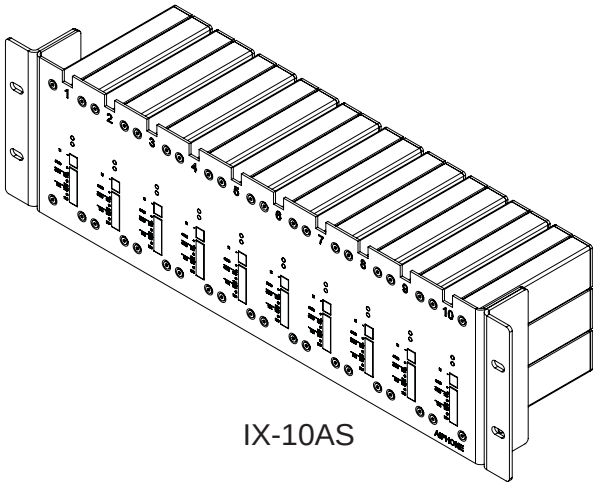
Installation & Programming Guide



IX-1AS



IX-MV



IX-10AS



ATTENTION:

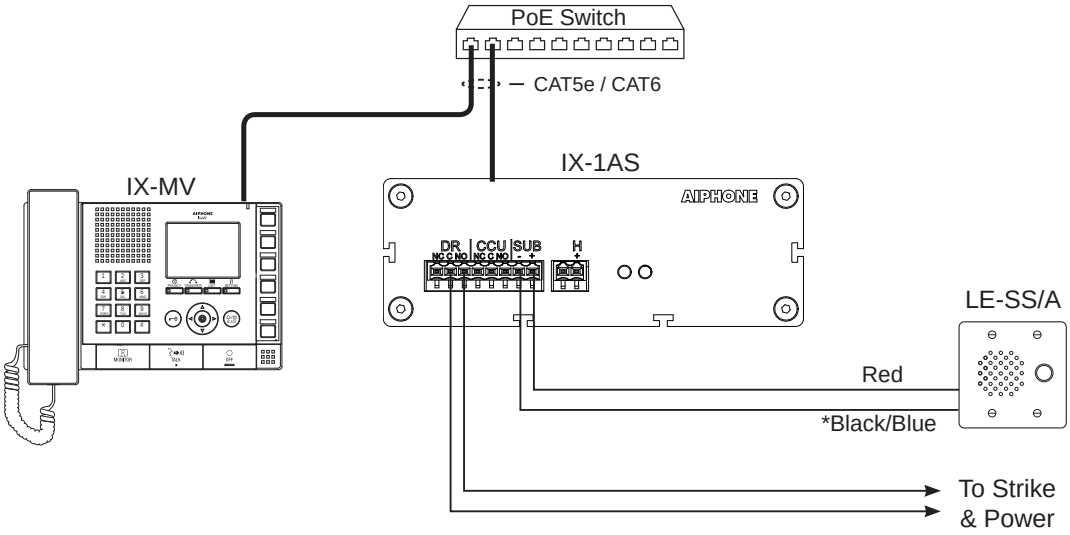
This is an installation and programming manual addressing wiring and programming for the IX-1AS / IX-10AS adaptor. For general IX Series programming, a complete set of instructions *(IX Web Setting Manual / IX Operation Manual / IX Support Tool Setting Manual)* can be found on the DVD-ROM provided with the IX-MV Master Station.

WIRING:

The IX-1AS / IX-10AS adaptor is designed for use with Aiphone's 2 wire LE and NE Series sub stations. This adaptor will allow these subs to be used with the IX-MV network master station. First, connect the door station to the adaptor as shown in the table below, then connect the adaptor to the network. The door station will announce its IP address once the network connection is made.

	LEF Sub Stations		NEM Sub Stations	
IX-1AS / 10AS	LE-*x*	LE-SS/A, LE-SSR, LS-NVP/C	NE-SS/A, NE-SSR, NE-NVP/C	NE-NVP-2DC/A
+	1	Red	Red	Red
-	*E, -	*Black/Blue	Black	Black
H	N/A	N/A	N/A	White

* Terminals / wire leads are jumped.



NOTE:
The IX-10AS contains ten adaptors in a rack mountable unit. Plug each adaptor into its own port on a switch, then program each one individually. Refer to the chart on page 8 of this manual to document station information for each adaptor.

Step 1: Logging into the IX-1AS adaptor

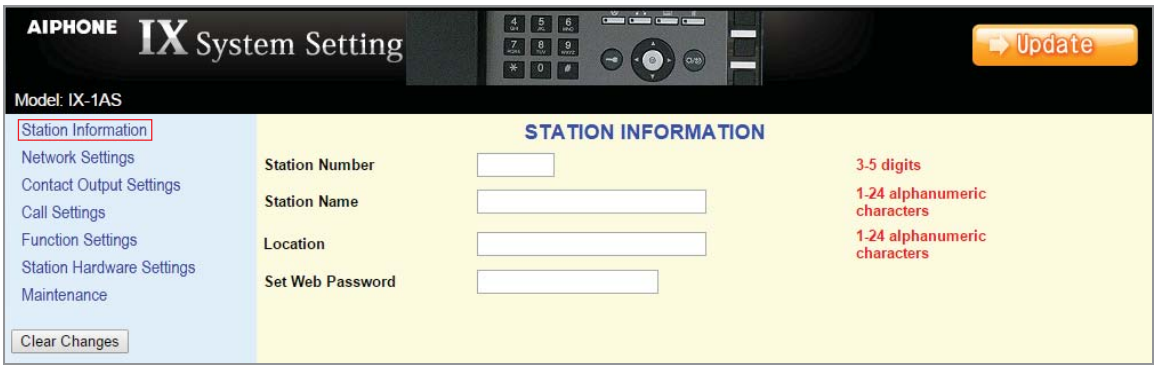
IMPORTANT
The IX Series equipment must be programmed and operational prior to programming the IX-1AS adaptor.

The IX-1AS adaptor is defaulted to DHCP. Once connected to the network, it will autosense network traffic and pick an unused IP address. The assigned IP address will be announced through the attached door station.
Enter the announced IP address into a web browser address bar to access the IX-1AS.



Step 2: Assigning Station Information

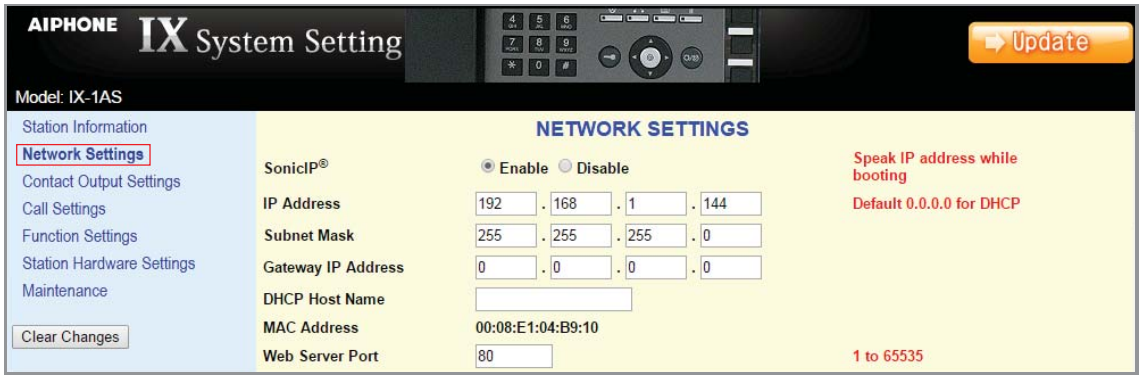
Once logged into the adaptor, the first screen shown is for assigning a Station Number, Station Name, and Location. An optional Web Password can also be assigned to the adaptor from this screen to prevent unauthorized access to this page.



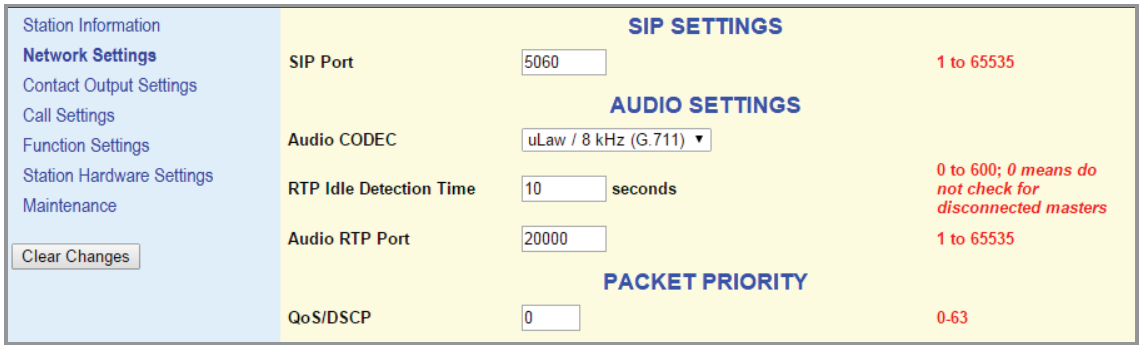
After entering a unique Station Number and Station Name, click the Update button to update and restart the adaptor.

Step 3: Network Settings

Select **Network Settings** from the menu on the left. Enter a unique IP Address*, Subnet Mask, and Gateway IP Address for the adaptor. Consult with your IT department for the appropriate addresses to be assigned.



There are additional settings on the Network Settings page that can be adjusted: SIP Settings, Audio Settings, and Packet Priority. The default settings will work in most cases. Adjust as necessary.



Click the Update button to update any Network Setting changes and restart the adaptor.

* If changes are made to the IP address, the web browser will need to be redirected to the new IP address after updating.

Step 4: Contact Output Settings *(optional)*

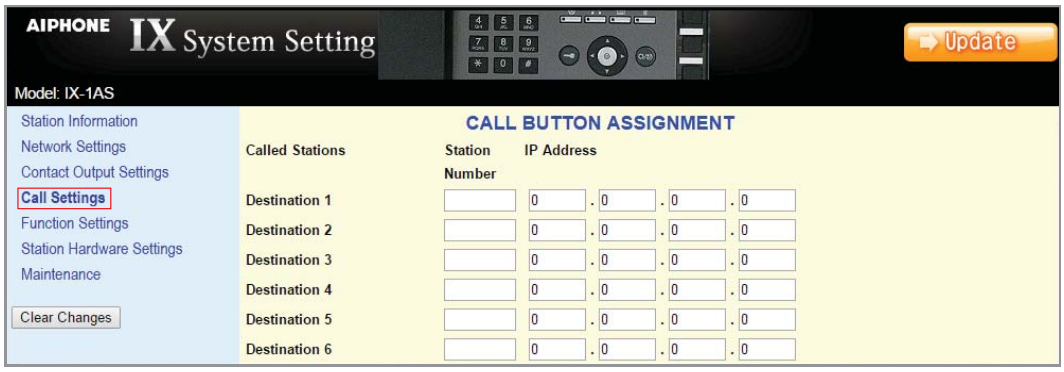
The IX-1AS has two built-in contact outputs: one for Door Release and one for Camera Call-Up. Select **Contact Output Settings** from the menu on the left. From this screen, adjust the door release output time (1-300 seconds). When using the Camera Call-Up relay, select the appropriate radio button for when the relay is to trigger: Calling and Communication or Communication Only.



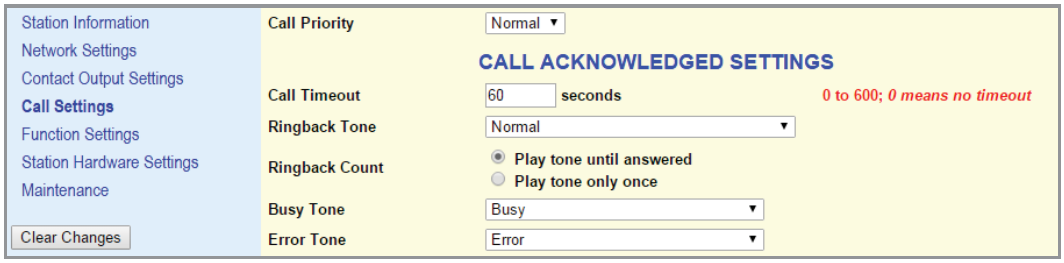
Click the Update button to update any Contact Output Setting changes and restart the adaptor.

Step 5: Call Settings

Select **Call Settings** from the menu on the left. From this screen, enter the station number and IP address of the master(s) that this door station needs to call. A maximum of 20 master stations can be entered (example: 101@192.168.1.165). These station numbers and IP Addresses must match what is assigned to the IX-MV master(s) in IX Support Tool.



The adaptor will work with the following settings left at default. Adjust as neccessary.
From the **Call Settings** screen, select the call priority (Normal, Priority, Urgent) for this door station.
Enter the Call Timeout value, the length of time that the door will call in for (0-600 seconds, 0 = infinite).
Select the Ringback Tone heard at the door from the appropriate drop down menu.
Click on the preferred Ringback Count radio button (until answered, only once).
Select the Busy Tone from the drop down menu that will be heard when calling a master that is currently in use.
Select the Error tone from the drop down menu that will be heard when an error occurs during calling.



Click the Update button to update the Call Setting changes and restart the adaptor.

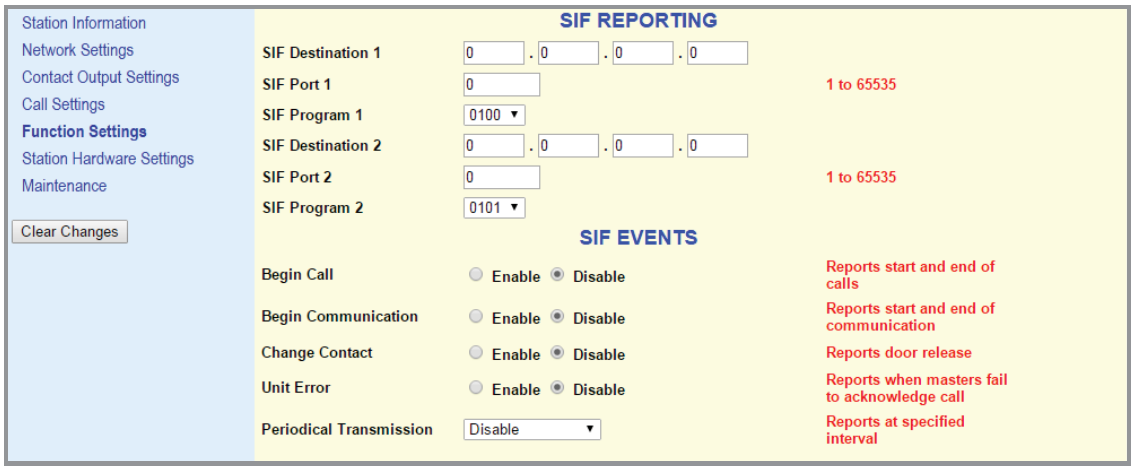
Step 6: Function Settings *(optional)*

Select **Function Settings** from the menu on the left. From the Door Release Tone drop down menu, select the tone that will be heard at the door station when the door release contact is activated. From the Paging Pretone drop down menu, select the pretone that will be heard at the door prior to any paging announcement.



Step 6: Function Settings *(continued)*

SIF Reporting and SIF Events can be enabled from the same **Function Settings** screen. This is used when integrating with access control platforms (i.e. RY-IP44). Enter the IP address (of 3rd party device), Port (of 3rd party device), and Program number for each destination under SIF Reporting. Under SIF Events, use the appropriate radio buttons to enable events to be sent to the destination addresses. When enabling Periodical Transmission, select the transmission interval from the drop down menu.



Click the Update button to update the Function Settings changes and restart the adaptor.

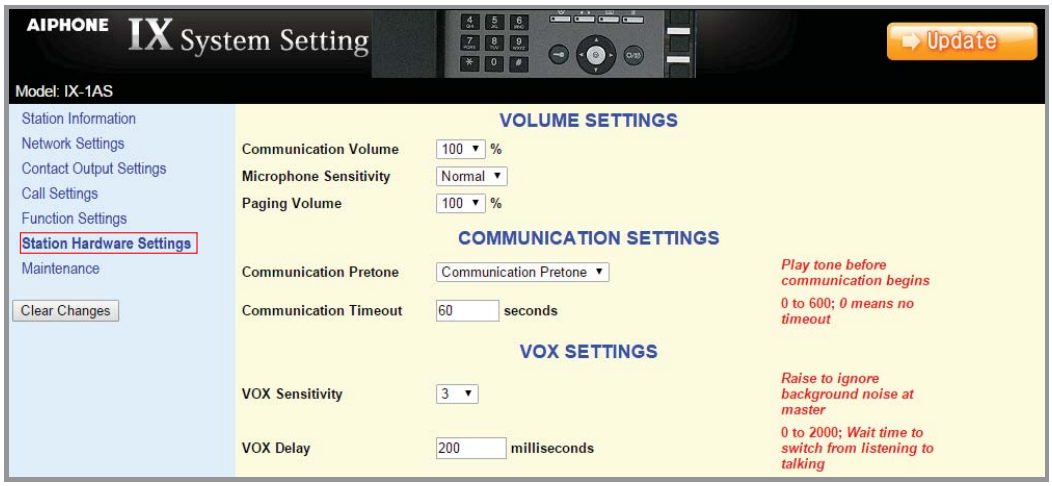
Step 7: Station Hardware Settings *(optional)*

Select **Station Hardware Settings** from the menu on the left. From this screen, the Volume Settings, Communication Settings, and VOX Settings can be adjusted. In most environments, the default settings will work, but should the environment warrant a change, make it here.

The Communication and Paging Volumes are set to the max level. Should they need to be lowered, use the appropriate drop down to select the desired volume level.
Adjust the Microphone Sensitivity to lower or increase the sub station's sensitivity when speaking to the master station.

Select which tone will be heard upon receiving a call from a master station from the Call Answer Tone drop down.
Select the Communication Timeout for this station (0-600 seconds, 0 = no timeout)

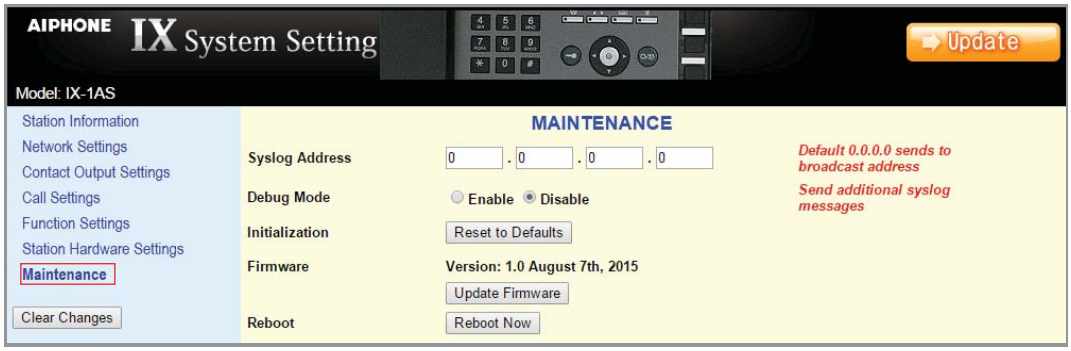
Change the VOX Sensitivity to adjust for background noise at the master station.
Change the VOX Delay to adjust how long it takes the unit to switch to talk from listen mode.



If any changes are made, click the Update button to update the Station Hardware Settings changes and restart the adaptor.

Step 8: Maintenance *(optional)*

Select **Maintenance** from the menu on the left. If a Syslog server is being used on the network, the IP address for the server can be entered here. If Syslog Address is left to the 0.0.0.0 address, the log will be broadcast. Enable debug mode for additional syslog messages to aid in troubleshooting.
The adaptor can also be restored to factory defaults, the firmware can be updated, or can be rebooted from the maintenance screen.



Click the Update button to save Syslog Address / Debug Mode settings and restart the adaptor.

Step 9: Adding the IX-1AS to the IX-MV

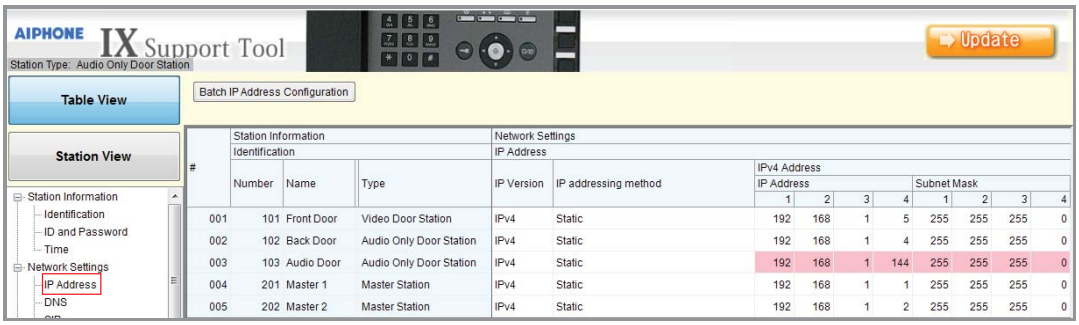
Now that the IX-1AS has been programmed, the IX-MV master(s) address book will need to be updated to reflect the newly added sub station.
Open **IX Support Tool** and select the system to be updated.
Select **Identification** from the **Station Information** tree on the left.
On the next available line, enter the number and the name of the sub assigned in Step 2.
Select Audio Only Door Station from the Type drop down.



Click the Update button to save the changes.

Step 10: Assigning IP Address

Now that the station has been added, the IP address will need to be assigned. From the menu on the left, select **IP Address** from the **Network Settings** tree. The newly added station will be in the list of stations but the IP address and Subnet Mask will be blank. Enter the IP address and subnet mask, making sure it matches what was set to the IX-1AS during its initial programming (Step 3).



Click the Update button to save the changes.

Step 11: Removing the IX-1AS from the IX-MV Address Book *(optional)*

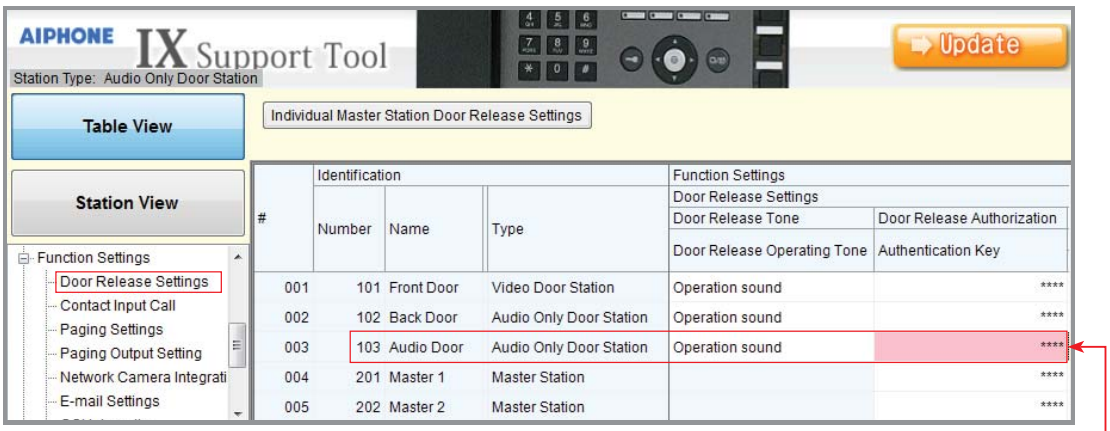
Select **Address Book** from the **System Information** tree on the left. Each master station in the system will be listed on the left and all devices in the system will be listed across the top. By default, the newly added station will be listed in each master station's address book. If a station is not to appear in a master station's address book, uncheck the appropriate box.

#	Station Information			Available Stations				
	Identification			101	102	103	201	202
	Number	Name	Type	Front Door	Back Door	Audio Door	Master 1	Master 2
001	201	Master 1	Master Station	✔	✔	✔		✔
002	202	Master 2	Master Station	✔	✔	✔	✔	

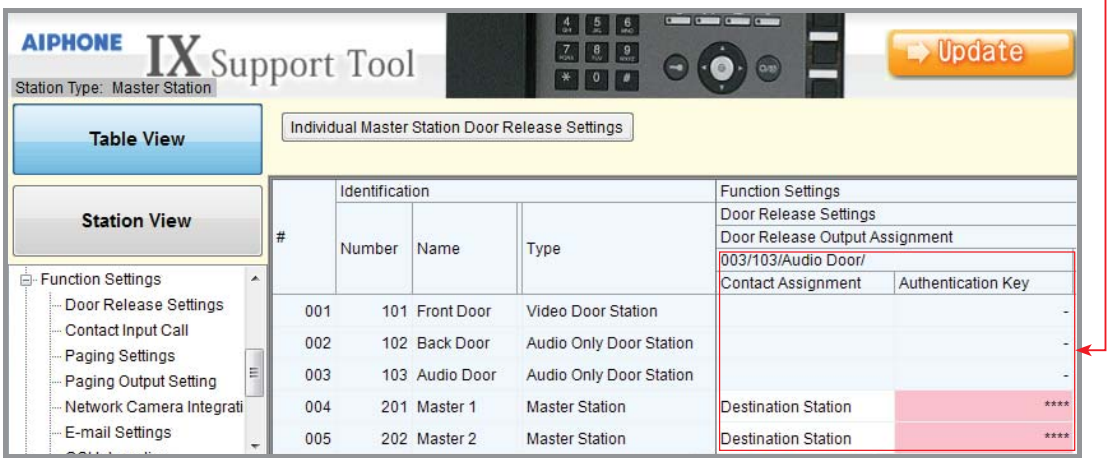
Click the Update button to save the changes.

Step 12: Door Release Settings

Select **Door Release Settings** from the **Function Settings** tree on the left. The newly added station will not have an Authentication Key assigned. Enter any 4 digit number (ie: 1234) into the Authentication Key field for the new station. The field will turn pink when modified.



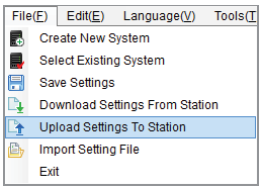
Scroll to the right and find the newly added station from the stations listed across the top. The master stations in the system will also not have an Authentication Key entered. Enter the same key that was entered for the door station here. This will allow the master station to open the door when communicating with the station. If door release is not desired for a specific master station, leave the Authentication Key field blank.

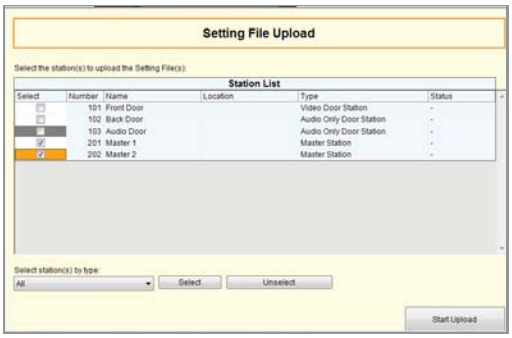


Click the Update button to save the changes.

Step 13: Uploading Settings

The IX Series master stations will now need to be updated with the saved changes. Select **Upload Settings To Station** from the **File** menu. Select the master stations from the list and click Start Upload.





The master stations will update and the Status column will show if the update was successful.

Station List

Select	Number	Name	Location	Type	Status
☐	101	Front Door		Video Door Station	-
☐	102	Back Door		Audio Only Door Station	-
☐	103	Audio Door		Audio Only Door Station	-
☑	201	Master 1		Master Station	Success
☑	202	Master 2		Master Station	Success

IX-10AS Chart

The IX-10AS is 10 IX-1AS adaptors in a rack mount enclosure. Each adaptor will need to be programmed individually. Use the chart below to enter the station information for each adaptor.

Adaptor Number	Station Number	Station Name	IP Address
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Specifications

Power: Power-over-Ethernet (IEEE 802.3af, class 0)
Current Consumption: Maximum 250mA per IX-1AS
Door Release Relay: 24V DC, 500mA
Camera Call Up Relay: 24V DC, 500mA
Communication: Hands-free Half duplex, VOX
LAN: Ethernet (10BASE-T, 100BASE-TX)
Audio Codec: G.711
Protocol: IPv4, TCP, UDP, SIP, HTTP, RTP, RTCP, IGMP, DHCP
Operating Temperature: 32°F ~ 122°F (0°C ~ 50°C)
Material: Aluminum (IX-1AS)
Steel (IX-10AS)
Color: Silver (IX-1AS)
Black (IX-10AS)
Dimensions: 1-½" H x 4-¼" W x 4-15⁄16" D (IX-1AS)
5-¼" H x 16-¾" W x 4-15⁄16" D (IX-10AS)