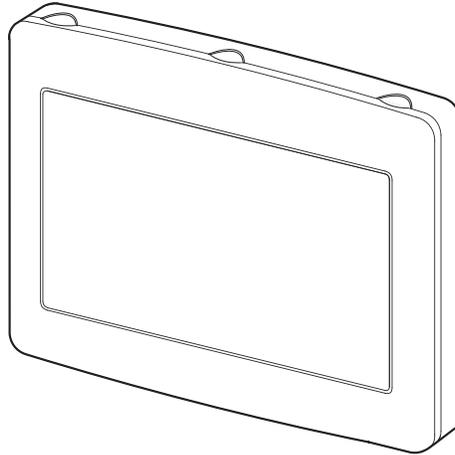


# IX SERIES

## IP Video Intercom System

### IXW-MA-SOFT Programming Guide



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#### **ATTENTION:**

This is an abbreviated programming manual addressing basic IXW-MA program settings using IX Support Tool. A complete set of instructions (*IX Web Setting Manual / IX Operation Manual / IX Support Tool Setting Manual*) can be found at [www.aiphone.com/IX](http://www.aiphone.com/IX).

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

Aiphone Corporation | [www.aiphone.com](http://www.aiphone.com) | (800) 692-0200

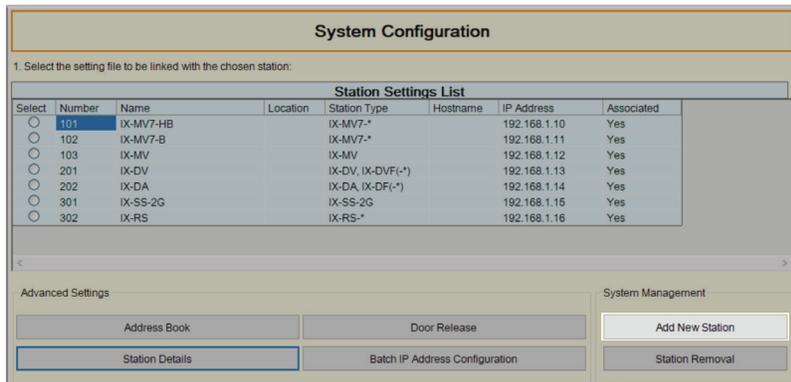
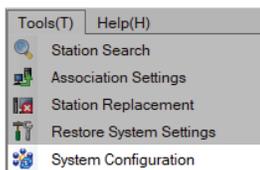
# Adding an IXW-MA to an Existing System

## Getting Started

The IXW-MA is an IP relay with 10 configurable outputs that can be remotely triggered by a station based on its **Contact Change** settings. Typically, these outputs are used for remote door release or to activate signaling devices. If the IXW-MA wasn't part of the original system configuration, it will need to be added. If the IXW-MA is already part of the system, continue to page 4.

### Step 1: Opening the System Configuration Settings

From the top menu bar, click **Tools(T)** and select **System Configuration**.

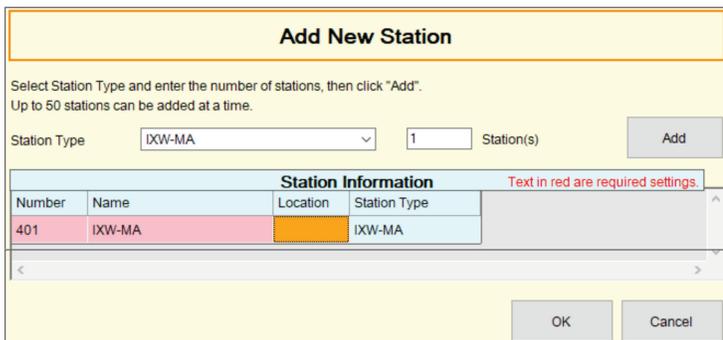


### Adding a Station

Click **Add New Station**

### Step 2: Adding a New Station

The Add New Station window will open. Use this screen to add one or more IXW-MA stations.



#### Station Type

Select the IXW-MA using the Station Type drop-down and enter the quantity of IXW-MAs to be added. Click **Add**.

#### Station Information

Edit the station Number and Name for the new IXW-MA(s).

#### Add

Click **Ok** to add the station.

The new IXW-MA(s) will appear in the Station Settings List with station number and name set in the Add New Station window.

**A default IP address of 192.168.1.10 (.11 for the second, .12 for the third, and so on) will be given to the station when added.** This IP address can be edited by clicking **Station Details** from the Advanced Setup section below.



# Adding an IXW-MA to an Existing System

## Step 3: Association

The station information created in the previous step will now need to be associated to a station found on the network.

Select	Number	Name	Location	Station Type	Hostname	IP Address	Associated
<input type="radio"/>	101	IX-MV7-HB		IX-MV7-*		192.168.1.10	Yes
<input type="radio"/>	102	IX-MV7-B		IX-MV7-*		192.168.1.11	Yes
<input type="radio"/>	103	IX-MV		IX-MV		192.168.1.12	Yes
<input type="radio"/>	201	IX-DV		IX-DV, IX-DVF(-*)		192.168.1.13	Yes
<input type="radio"/>	202	IX-DA		IX-DA, IX-DF(-*)		192.168.1.14	Yes
<input type="radio"/>	301	IX-SS-2G		IX-SS-2G		192.168.1.15	Yes
<input type="radio"/>	302	IX-RS		IX-RS-*		192.168.1.16	Yes
<input checked="" type="radio"/>	401	IXW-MA		IXW-MA		192.168.1.17	-

Select	Number	Name	Location	Station Type	MAC address	Associated
<input type="radio"/>	101	IX-MV7-HB		IX-MV7-*	00:0B:AA:2F:02:DB	Yes
<input type="radio"/>	102	IX-MV7-B		IX-MV7-*	00:0B:AA:2F:02:1A	Yes
<input type="radio"/>	103	IX-MV		IX-MV	00:0B:AA:17:1B:BA	Yes
<input type="radio"/>	201	IX-DV		IX-DV, IX-DVF(-*)	00:0B:AA:27:0B:E7	Yes
<input type="radio"/>	301	IX-SS-2G		IX-SS-2G	00:0B:AA:2C:01:DC	Yes
<input type="radio"/>	302	IX-RS		IX-RS-*	00:0B:AA:2D:00:14	Yes
<input type="radio"/>	202	IX-DA		IX-DA, IX-DF(-*)	00:0B:AA:16:34:D6	Yes
<input checked="" type="radio"/>	401	IXW-MA		IXW-MA	00:0B:AA:2E:00:01	-

**Station Setting List**  
Select the IXW-MA from the top Station Settings List.

**Station List**  
Select the IXW-MA found on the network, show on the Station List.

**Associate**  
Click Apply to associate the station setting to the station.

Scroll Down

Scroll Down

Select	Number	Name	Location	Station Type	IP Address	MAC address	Status
<input checked="" type="checkbox"/>	101	IX-MV7-HB		IX-MV7-*	192.168.1.10	00:0B:AA:2F:02:DB	Success
<input type="checkbox"/>	102	IX-MV7-B		IX-MV7-*	192.168.1.11	00:0B:AA:2F:02:1A	Success
<input type="checkbox"/>	103	IX-MV		IX-MV	192.168.1.12	00:0B:AA:17:1B:BA	Success
<input type="checkbox"/>	301	IX-SS-2G		IX-SS-2G	192.168.1.15	00:0B:AA:2C:01:DC	Success
<input type="checkbox"/>	201	IX-DV		IX-DV, IX-DVF(-*)	192.168.1.13	00:0B:AA:27:0B:E7	Success
<input type="checkbox"/>	202	IX-DA		IX-DA, IX-DF(-*)	192.168.1.14	00:0B:AA:16:34:D6	Success
<input type="checkbox"/>	302	IX-RS		IX-RS-*	192.168.1.16	00:0B:AA:2D:00:14	Success
<input type="checkbox"/>	401	IXW-MA		IXW-MA	192.168.1.17	00:0B:AA:2E:00:01	Success

**Status**  
Confirm that the IXW-MA(s) has been successfully associated in the Status column. This may take several minutes. If **Success** is shown, click Next.

The associated IXW-MA(s) will now have its Station Name and IP address, but no other settings at this time. Continue with the configuration process and upload to **ALL** stations before testing.

# IXW-MA Settings with IX Series Stations

## Getting Started

The following steps detail the configuration for using the outputs of the IXW-MA for door release.

### Step 1A: SIF Settings for IX Series Stations (IX-MV7-\*, IX-DV, IX-DVF-\*, IX-SS-\*, IX-SSA-\*, and IX-RS-\*)

Use the following steps to configure the SIF settings needed for IX Series stations. Refer to page 5 for the configuration of IX Series 1 stations (IX-MV, IX-DA, IX-BA).

Expand **Function Settings** on the left-hand side menu and select **SIF**. The SIF event trigger for door release is sent by the door station, so the following steps use door stations as examples.

**Table View**

---

**Station View**

- Station Information
- Network Settings
- System Information
- Call Settings
- Option Input / Relay Output Settings
- Paging Settings
- Function Settings**
  - Door Release
  - Network Camera Integration
  - Paging Settings
  - Bathroom Call
  - Email
  - CGI
  - SIF
  - Record
  - Communication Audio Mess.
  - Chime
  - CSR
  - SSL Certificate
  - IEEE 802.1X
  - Display Mode

Station Information					Function Settings							
Identification					SIF							
#	Number	Name	Location	Station Type	SIF Functionality	SIP URI Format	No.01					
							SIF Settings					
							Program Type	IPv4	IPv6	Destination Port	SSL	Connection
0001	0001	Master Stations1		IX-MV7-*	Disable	Disable						
0002	0002	Master Stations2		IX-MV7-*	Disable	Disable						
0003	0003	Master Stations3		IX-MV	Disable							
0004	0004	Video Stations1		IX-DV, IX-DVF(-*)	Enable	Disable	0100	192.168.1.17		65014	Enable	Socket
0005	0005	Video Stations2		IX-DA, IX-DF(-*)	Disable							
0006	0006	Audio Stations1		IX-SS-2G	Enable	Disable	0100	192.168.1.17		65014	Enable	Socket
0007	0007	Handset Sub Station1		IX-RS-*	Disable	Disable						
0008	0008	I/O Adaptor1		IXW-MA	Disable	Disable						

**SIF Functionality:** Enable for each station interacting with the IXW-MA  
**Program Type:** 0100 for each station  
**IPv4:** Enter the IP address of the IXW-MA  
**Destination Port:** 65014  
**SSL:** Enabled  
**Connection:** Socket

While still on the **Function Settings > SIF** screen, scroll right to find **Change Contact**.



Station Information					Function Settings				
Identification					SIF				
#	Number	Name	Location	Station Type	No.01				
					Transmission Trigger				
					Call	Begin Communication (Source)	Door Release Indication	End Communication	Change contact
0001	101	IX-MV7-HB		IX-MV7-*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0002	102	IX-MV7-B		IX-MV7-*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0003	103	IX-MV		IX-MV		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0004	201	IX-DV		IX-DV, IX-DVF(-*)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
0005	202	IX-DA		IX-DA, IX-DF(-*)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0006	301	IX-SS-2G		IX-SS-2G		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0007	302	IX-RS		IX-RS-*		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
0008	401	IXW-MA		IXW-MA		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Change Contact**  
Check the **Change Contact** box for each door station that will interact with the IXW-MA.

**Update**  
Click **Update** to save the SIF and Change Contact settings.

**Important**  
If there are no Legacy IX Series stations, skip to page 6 to continue the programming process.

# IXW-MA Settings with Legacy IX Series Stations

## Getting Started

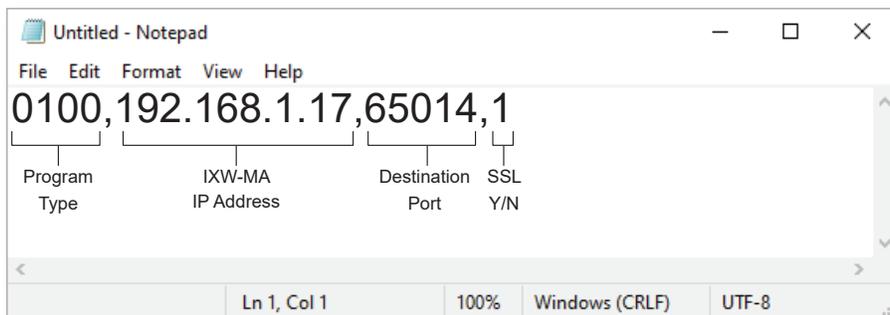
The following steps detail the configuration for **using the outputs of the IXW-MA for door release**.

### Step 1B: SIF Settings for Legacy IX Series Stations (*IX-DA, IX-BA, IX-MV*)

Use the following steps to configure the SIF settings needed for legacy IX Series stations. Refer to page 4 for the configuration of current IX Series stations.

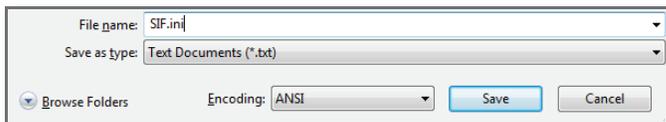
A line of code will need to be written, then uploaded, to allow legacy IX Series stations (*IX-DA, IX-BA, IX-MV*) to interact with the IXW-MA. Open a plain text editor, like Notepad. In the text editor, type the following information.

#### Example .ini File:



- Program Type:** Always use **0100**
- IXW-MA IP Address:** IP address associated in Support Tool to the IXW-MA
- Destination Port:** Always use **65014**
- SSL Y/N :** Always use **1**

**The file must be saved with an .ini extension**, which is typically not found using the **Save as Type** drop-down menu of the text editor. To do this, type in ".ini" at the end of the file name. There is not a required file name, but for clarity, the example will show the file being saved as "**SIF.ini**".



Save this file to an easily accessible location on the PC, as it will be uploaded to the stations in the next step.

#### Important

Legacy IX Series stations require firmware v2.1 or higher to be compatible with the IXW-MA. To check the latest version of firmware, go to **Tools(T)** on the top menu of Support Tool and select **Station Search**. Here, the firmware version of every station found on the network will be displayed.

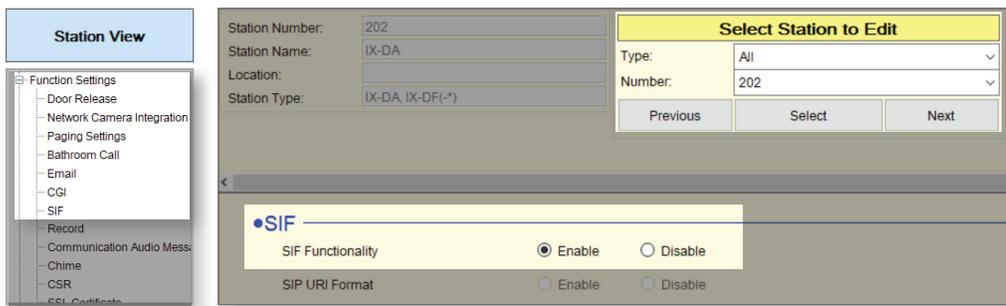
For more details about the features and information above, please contact Technical Support.

# IXW-MA Settings with Legacy IX Series Stations

## Step 2B: SIF Settings for Legacy IX Series Stations

Next, the newly created .ini file will be uploaded to each station. In the case of door release, only door stations are required to receive this file, as the SIF command for door release comes from the door station and **not** the master station.

From the left hand side menu, expand **Function Settings** and select **SIF**. Once on the SIF screen, click the **Station View** button at the top of the screen.



The screenshot shows the 'Station View' button in the top left corner of the interface. The main content area displays the 'SIF' settings for station 202, including 'SIF Functionality' (set to Enable) and 'SIP URI Format' (set to Enable). A 'Select Station to Edit' dialog is also visible, showing 'Type: All' and 'Number: 202'.

**Station View**

**Select Station**

Use the Number drop-down under **Select Station to Edit** and choose an IX Series 1 door station. Click **Select** and ensure that the correct station is shown in upper left of the screen.

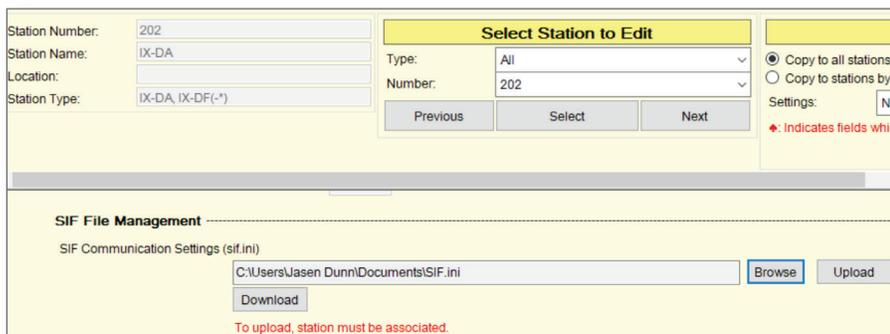
**SIF Settings**

From the menu on the left, expand **Function Settings** and select **SIF**.

Scroll Down

Scroll Down

Scroll down until **SIF File Management** is displayed.



The screenshot shows the 'SIF File Management' section with the file path 'C:\Users\Jasen Dunn\Documents\SIF.ini' and buttons for 'Browse', 'Upload', and 'Download'. A red note indicates 'To upload, station must be associated.'

**SIF File Management**

SIF Communication Settings (sif.ini)

C:\Users\Jasen Dunn\Documents\SIF.ini

Browse Upload

Download

To upload, station must be associated.

**File Selection**

Click the **Browse** button and select the **.ini file** that was created in Step 1B.

**Upload**

**Upload** the selected file to the station.

**Update**

Click **Update** to save the SIF setting changes.

**Important**

Return to **Table View** for the remaining steps.

# IXW-MA Relay Output Settings

## Step 1: Configuring Relay Output Settings

From the left hand side menu, expand **Option Input / Relay Output Settings** and select **Relay Output**. Then, use the **Display Settings** drop-down menu at the top of the page to select one of the 10 relay outputs to configure.

Station Information				Option Input / Relay Output Settings		
Identification				Relay Output		
#	Number	Name	Loc	Station Type	Relay Output 1	
					Name	Function
0001	101	IX-MV7-HB		IX-MV7-*		Door Release
0002	102	IX-MV7-B		IX-MV7-*		Door Release
0003	103	IX-MV		IX-MV		Door Release
0004	201	IX-DV		IX-DV, IX-DVF(-)		Door Release
0005	202	IX-DA		IX-DA, IX-DF(-*)		Door Release
0006	301	IX-SS-2G		IX-SS-2G		Door Release
0007	302	IX-RS		IX-RS-*		Door Release
0008	401	IXW-MA		IXW-MA		Contact Change SIF Event

**Function**  
Use the Function drop-down menu to select **Contact Change SIF Event** for the IXW-MA.

While still on the **Relay Output** screen, scroll right until **Contact Change SIF Event** under **Relay Output 1** is displayed.

Station Information				Option Input / Relay Output Settings		
Identification				Relay Output		
Number	Name	Loc	Station Type	Relay Output 1		Output Time
				Contact Change SIF Event	Option Relay Control	
				Number	Station List	
101	IX-MV7-HB		IX-MV7-*			400
102	IX-MV7-B		IX-MV7-*			400
103	IX-MV		IX-MV			400
201	IX-DV		IX-DV, IX-DVF(-)			400
202	IX-DA		IX-DA, IX-DF(-*)			400
301	IX-SS-2G		IX-SS-2G			400
302	IX-RS		IX-RS-*			400
401	IXW-MA		IXW-MA	201	<input type="button" value="Open"/>	400

**Select a Station**  
Find the IXW-MA and click **Open** and select the **Station Number** of the station to communicate with the IXW-MA.

**Update**  
Click **Update** to save the relay output settings and repeat for each station and relay output needed.

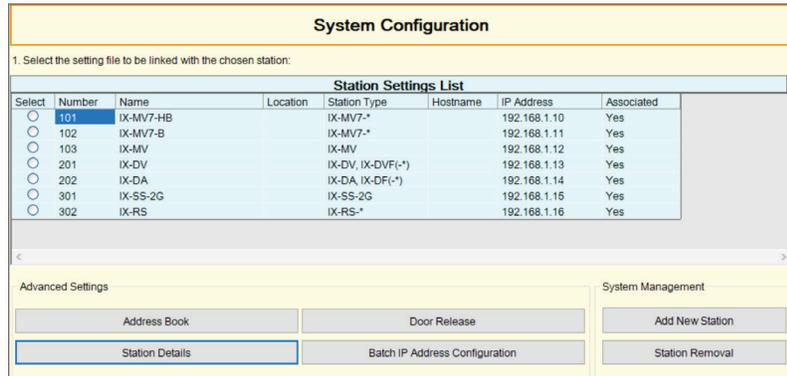
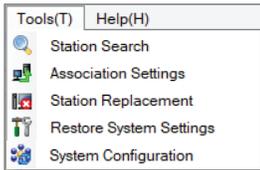
For more details about the features and information above, please contact Technical Support.



# Adding IX-SOFT to the Support Tool

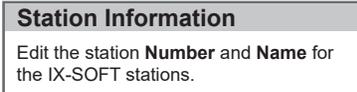
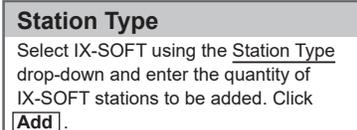
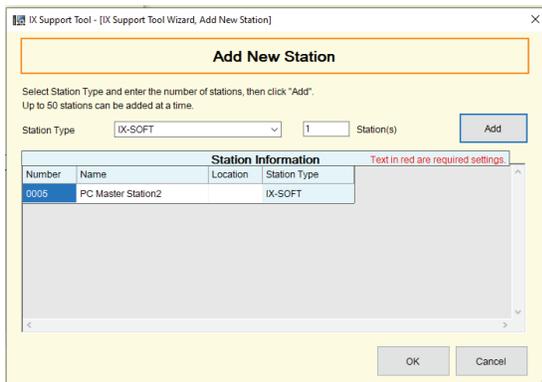
## Step 1: Opening the System Configuration Settings

From the top menu bar, click **Tools(T)** and select **System Configuration**.



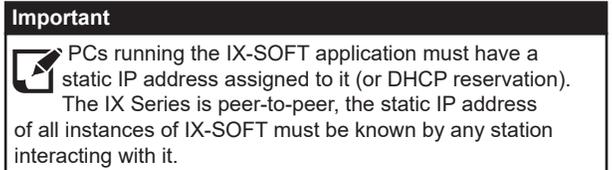
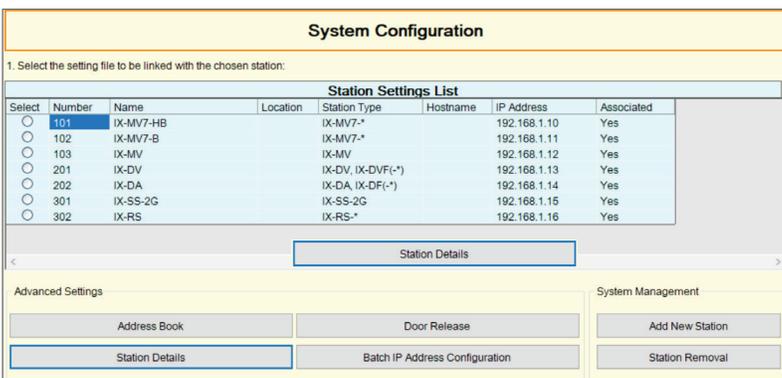
## Step 2: Adding a New Station

The Add New Station window will open. Use this screen to add one or more IX-SOFT stations.



## Step 3: Station Details

Returning to the **System Configuration** screen, click **Station Details** to further customize the **Station Number** and **Name**, as well as set the **Static IP address** of the PCs running IX-SOFT. The IP address must match the PC's IP address or the associate step will fail.



# Adding IX-SOFT to Support Tool (Continued)

## Step 4: Associating IX-SOFT

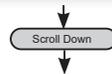
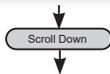
Once the Station Details have been configured the created setting must be paired with an IX-SOFT installation. Ensure IX-SOFT is running before proceeding. Under the **Station Settings List** select the setting to be associated with IX-SOFT.

1. Select the setting file to be linked with the chosen station:

Station Settings List								
Select	Number	Name	Location	Station Type	Hostname	IP Address	Subnet Mask	Associated
<input type="radio"/>	0001	PC Master Station1		IX-SOFT		10.0.0.131	255.255.255.0	Yes
<input type="radio"/>	0002	Video Station1		IX-DV, IX-DVF(-*)		10.0.0.40	255.255.255.0	Yes
<input type="radio"/>	0004	IXWMAPC10		IXW-MA		10.0.0.42	255.255.255.0	Yes

Advanced Settings: Address Book, Door Release, Station Details, Batch IP Address Configuration

System Management: Add New Station, Station Removal



Select **Station Search** under **Station List** and wait for the station search to complete. If the PC running IX-SOFT is the same PC running IX-Support Tool, the **Search for IX-SOFT on this PC** check box must be selected or the install will not be found. Select the PC running IX-SOFT to be associated with the selected setting.

Search and select station within local network: Station Search Protocol IPv4

Station List								
Select	Number	Name	Location	Station Type	IP Address	Subnet Mask	MAC address	Associated
<input checked="" type="radio"/>	0001	PC Master Station1		IX-SOFT	10.0.0.131	255.255.255.0	F8:E4:E3:CC:31:4D	-

Search for IX-SOFT on this PC

Apply Associate Automatically Station Search

Station(s) that have been associated with a setting file are listed below.

Select **Next** to go to the Setting File Upload, click **Finish** without uploading to any stations. This process will be covered in a future step.

### Setting File Upload

Select the station(s) to upload the Setting File(s): Connection Status 0/0

Select	Number	Name	Location	Station Type	IP Address	Status
<input type="checkbox"/>	101	IX-MV7-HB		IX-MV7-*		-
<input type="checkbox"/>	102	IX-MV7-B		IX-MV7-*		-
<input type="checkbox"/>	103	IX-MV		IX-MV		-
<input type="checkbox"/>	201	IX-DV		IX-DV, IX-DVF(-*)		-
<input type="checkbox"/>	202	IX-DA		IX-DA, IX-DF(-*)		-
<input type="checkbox"/>	301	IX-SS-2G		IX-SS-2G		-
<input type="checkbox"/>	302	IX-RS		IX-RS-*		-
<input type="checkbox"/>	401	IXW-MA		IXW-MA		-

Select Station by Type: All Select Unselect

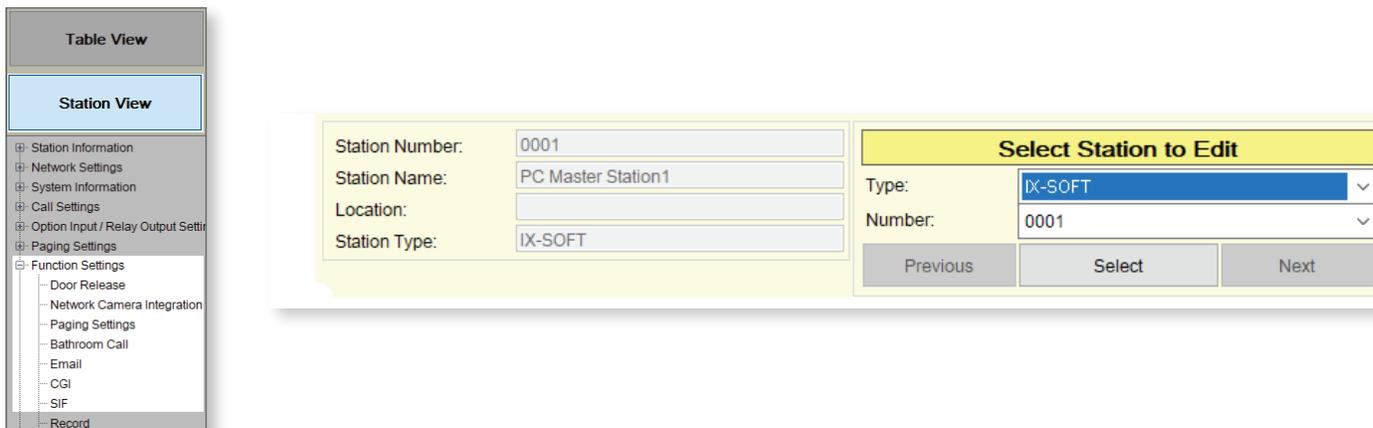
This PC's IP Address: 172.18.10.91 Manual Date / Time Setup Start Upload Next Finish

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

# Adding IX-SOFT to Support Tool (Continued)

## Step 5: SIF Settings (IX-SOFT Licensing)

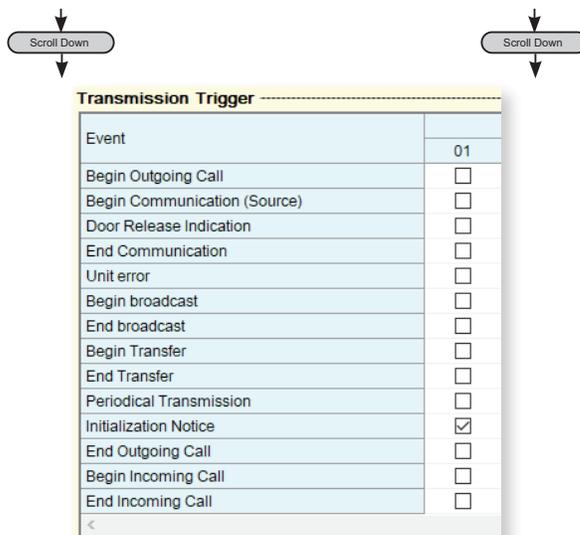
Click the **Station View** button at the top of the screen. From the left hand side menu, expand **Function Settings** and select **SIF**. Under the **Select Station to Edit** section, use the drop-down menu to select the added IX-SOFT station and click **Select**.



Under the **SIF** section, station information of the IXW-MA-SOFT will need to be added to the SIF settings of each IX-SOFT instance. Fill in #01 for each IX-SOFT station with the following settings.

#	Program Type 0000-1111	IPv4	IPv6	Destination Port 1024-65535	SSL	Connection
		1.0.0.1-223.255.255.254 or hostname(1-64 alphanumeric characters)	::FF:0-FE:FF:FFFF:FFFF:FFFF:FFFF:FFFF or hostname(1-64 alphanumeric characters)			
01	1111	10.0.0.42		65060	Enable	Socket
02						

- Program Type:** 1111
- IPv4:** Static IP Address of the IXW-MA-SOFT device
- Destination Port:** 65060
- SSL:** Enabled
- Connection:** Socket



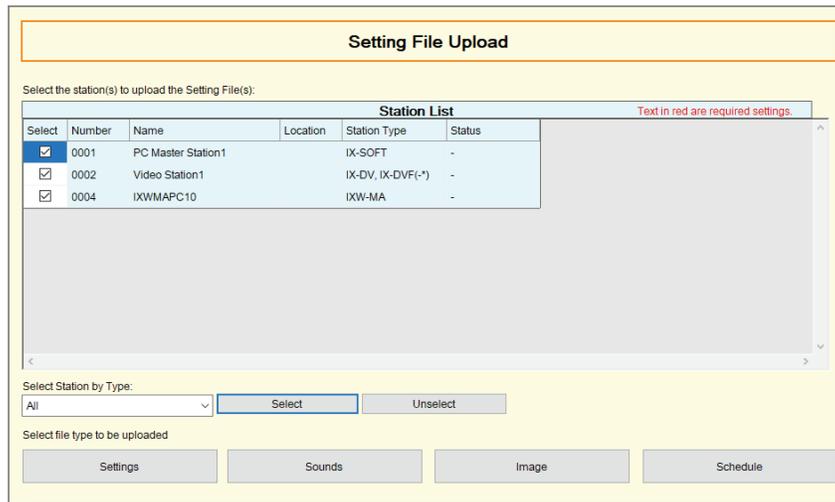
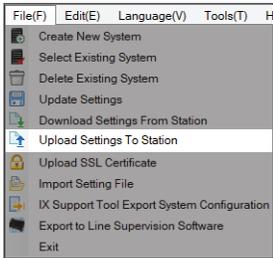
### Transmission Trigger

Scroll down to transmission trigger under the SIF settings and for #01 select the check box for "**initialization notice**"

# Uploading the Setting File

## Setting File Upload

The final step after configuring new settings, or making changes to existing settings, is to upload the setting file to all stations. If the setting files are not uploaded, any changes made in Support Tool will not be reflected on the station(s). To do this, click **File(F)** and select **Upload Settings to Station**.



### Select Stations

Click **Select** to check all stations in the system.

### Upload Settings

Click **Settings** to begin the upload process.

## Upload Status

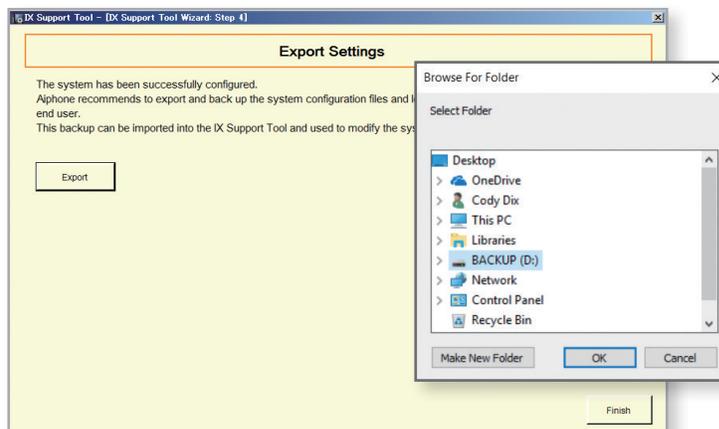
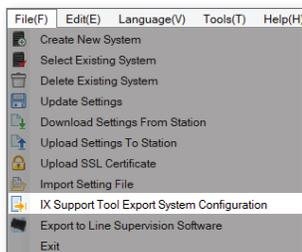
If the status shows **Failed**, ensure the programming PC is in the same subnet as the IX Stations it is uploading to, and that the stations are powered on and available (solid status light on the station).

# Exporting the Settings

## Export Settings

A copy of the system's setting file should be exported to a secure location or external drive. This step is critical for the ongoing maintenance of this system. If settings are to be changed in the future, or new stations are to be added, this file is required to do so.

To export the file, click on **File(F)** at the top of the screen and select **IX Support Tool Export System Configuration**.



### Export

Click **Export** to select a location to save the system's setting file.

### Select Folder

Select location to save the file then click **OK**.

### Finish

Lastly, once the setting file has been saved, click **Finish**.

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