

IXG SERIES APPLICATION NOTE

External Signaling

Introduction

Many IXG Series stations offer relay outputs that can be used for external signaling when certain trigger conditions are met. This is commonly used to activate external devices such as sounders, access control systems, and security systems. This guide covers how to configure the output when using the outputs directly and when using an IXW-MA(A) IP relay.

Compatible Station Types

IXG-2C7 offer two relay outputs for external signaling. Each requires a separate GT-RY relay.

The relays on IXG-DM7-HID(A) entrance panels cannot be used for external signaling.

IX-DV, IXG-MK, IX-MV7, and IX-SSA stations offer two outputs, which allows the station to provide outputs for both door release and external signaling.

IX-RS, IX-EA, IX-DVM, and IX-SS-2G stations only have a single output available, which means the stations cannot be used for door release and external signaling at the same time.

The settings in this guide are not available for legacy IX-DA or IX-BA door stations. They are also not available if using the legacy RY-IP44 IP relay adaptor.

Station Configuration Steps

Navigate to **Option Input/Relay Output Settings**, <u>Relay Output</u>. By default, the <u>Display Settings</u> will be set to **Relay Output 1**. Use the drop-down under <u>Display Settings</u> to change to **Relay Output 2**, if needed.



For each station to be configured, use the drop-down menu to change the <u>Function</u> to **Status Output.** Choose the desired trigger conditions for each station.

01	113	Guard Station1	Status Output		\checkmark	\checkmark	\checkmark				
01	114	Master Station1	Status Output		\checkmark	\checkmark	\checkmark				

Choosing Trigger Conditions

There are several conditions that can be used to activate a relay output on a station. Multiple conditions can be active on a station at once. Not all conditions are available for all stations, and IXG Support Tool will only display valid options for each station.

Outgoing Call: The station is calling out to another station.

Incoming Call: The station is receiving a call.

Communication: The call has been answered and the station is in an active call with another station.

Outgoing Page: The station has initiated a page.

Incoming Page: The station is receiving a page from another station.

Monitor: The station is being monitored by another station.

Normal/Priority/Urgent: These are call priority levels that apply to certain calling and paging trigger conditions.

Applying Settings

If an IP Relay will not be used, click **Save**. Navigate to **Connection**, <u>Upload Settings</u>, and upload settings to all stations.



IXW-MA/IXW-MAA Configuration Steps

IXW-MA(A) IP relay adaptors mirror programmed outputs on other stations. To use them for external signaling, first program a door or master station's output like on the previous page.

First, the other stations will need to be configured to signal the IP relay. Navigate to Function Settings, SIF.

			Function Setting	js									
SIF				IF									
Building Nu	Unit Number	Station Name	SIF Functionalit	t SIP URI Format	No.01								
					SIF Settings								
					Program Type	IPv4	IPv6	Destination P	SSL	Connectio			
01	112	Handset Sub Station2	Disable	Disable	0100	Enter.the.IXW-MA.IP.address		65014	Enable	Socket			
01	112	Video Door Station1	Disable	Disable	0100	Enter.the.IXW-MA.IP.address		65014	Enable	Socket			
01	114	Master Station1	Disable	Disable	0100	Enter.the.IXW-MA.IP.address		65014	Enable	Socket			
01	114	Handset Sub Station2	Disable	Disable	0100	Enter.the.IXW-MA.IP.address		65014	Enable	Socket			
01	115	Video Door Station1	Disable	Disable	0100	Enter the IXW MAIR address		65014	Enable	Sacket			

Scroll right and check off Change contact for each door or master station that will signal the IXW-MA(A). Click Save

If the IXW-MA(A) has not already been added to the system, navigate to **Site Settings**, <u>I/O Adapter Registration</u>. For each IXW-MA(A) to be used, check off the **Enable** column. Click **Save**.

version of the IXG Support Tool at <u>https://www.aiphone.com/ixg.</u>

	Site Settings					
	I/O Adaptor Registration					
I/O Adaptor Number	Enable	Station Name				
1		I/O Adaptor1				

Connection: Socket

Navigate to **Network Settings**, <u>IP Address</u>. Enter an IP address, subnet mask, and other optional network information for the IXW-MA(A). Click **Save**.

		<u>~</u>	Network Settings										
	Building Nu Unit Number Station Name		IP Address										
Building Nu						IPv4	Addre	ess					
			Hostname	IP Version	Static / DHCP	IP Address				Sub	Subnet Mask		
						1	2	3	4	1	2	3	4
01	113	Guard Station1		IPv4	Static 💙	192	168	1	12	255	255	255	0
01	112	Handset Sub Station1		IPv4	Static	192	168	1	10	255	255	255	0
01	114	Handset Sub Station1		IPv4	Static	192	168	1	13	255	255	255	0
		I/O Adaptor1		IPv4	Static	192	168	1	16	255	255	255	0
01	114	Master Station2		IPv4	Static	192	168	1	14	255	255	255	0

IXW-MA/IXW-MAA Programming (continued)

Navigate to **Option Input/Relay Output Settings**, <u>Relay Output</u>. For each of the relays on the IXW-MA(A) adaptor to be configured, set the **Function** to Contact Change SIF Event. To switch to other relays, use the drop-down under <u>Display Settings</u>.

Dow	Design New		[Display settings]
NUW	Previous		Relay Output 2 🛛 🗸
Enter Station Numbe	r	Apply	

	Option Input / Relay Output Settings						
	Relay Output						
Station Name	Relay Output 1						
	Name	Function					
Handset Sub Station1		Door Release					
Video Door Station1		Door Release					
Guard Station1		Door Release					
Handset Sub Station1		Door Release					
Master Station2		Door Release					
Video Door Station1		Door Release					
I/O Adaptor1		Contact Change SIF Even 🌱					

Scroll right to the **Contact Change SIF Event** column. Click **Select Station** for the IXW-MA(A). Choose a station to assign to this relay and click **OK**. Click **Save** and repeat these steps for each relay output on the IXW-MA(A) to be programmed.

Building Nu	Unit Number	Station Name	Relay Out	put 1				50
			Contact C	hange SIF Event				
			Station Nu	Select Station	Select	station		S
01	112	Handset Sub Station 1		Select Station	Select	Building Nu	Unit Number	Sta
01	112	Video Door Station1		Select Station	0	01	112	11
01	113	Guard Station1		Select Station	0	01	113	11
01	114	Handset Sub Station1		Select Station	0	01	114	11
01	114	Master Station2		Select Station	0	01	114	11
01	115	Video Door Station1		Select Station	0			00
		I/O Adaptor1		Select Station	<			
		I/O Adaptor1		Select Station	<			

Select Building Nu Unit Number Station Nt Station Name Station Ty 01 112 1120 Handset Sub Station1 IX-RS-* 01 112 1121 Video Door Station1 IX-PV.IX-F 01 113 1130 Guard Station1 IXG-MK	pe
O 01 112 1120 Handset Sub Station1 IX-RS-* O 01 112 1121 Video Door Station1 IX-DV.IX-I O 01 113 1130 Guard Station1 IXG-MK	_
O 01 112 1121 Video Door Station1 IX-DV.IX-F O 01 113 1130 Guard Station1 IXG-MK	
O 01 113 1130 Guard Station1 IXG-MK	OVF(-*)
O 01 114 1140 Handset Sub Station1 IX-RS-*	
O 01 114 1141 Master Station2 IX-MV7-*	
O 01 115 1150 Video Door Station1 IX-DV,IX-E	DVF(-*)
O 00013995 I/O Adaptor1 IXW-MA	
	v
	>

If one of the master or door stations is using Relay Output 2 for its status output, see the optional step on the next page. Otherwise, once all settings are configured, navigate to **Connection(S)**, <u>Upload Settings</u> to push the settings to all stations.

Renaming the IXW-MA/IXW-MAA (Optional)

	Site Settings						
	I/O Adaptor Registration						
I/O Adaptor Number	Enable	Station Name					
1		I/O Adaptor1/4.5.6					

If any of the mirrored relays on the other stations are using Relay Output 2, the IXW-MA(A)'s name will need to reflect that. This is because by default, the IXW-MA assumes that it is mirroring the other station's Relay Output 1, and the name allows it to see Relay Output 2 on the station.

Navigate back to **Site Settings**, <u>I/O Adaptor Registration</u>. The first part of the name is arbitrary. Add a "/" to the IXW-MA(A)'s chosen name. Then, use numbers separated by periods to indicate which of its programmed relays will respond to another station's secondary relay.

Example: A site has three door stations that trigger an IXW-MA(A) when they place a call, which is being used to trigger a separate chime for each. On each door station, Relay Output 1 is being used for door release and Relay Output 2 is being used for external signaling. Relays 4, 5, and 6 on the IXW-MA(A) are connecting to the door chime system, and it needs to mirror Relay Output 2 on the door stations. So, **/4.5.6** is added to the name.

Once the IXW-MA(A) stations have their new names, click **Save**. Upload settings to all stations again.