

Aiphone Integration Configuration Guide

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About Alertus

Alertus Technologies is a pioneer and market leader of emergency mass notification systems for large-area, high occupancy facilities. Since 2002, Alertus has engineered innovative solutions for unified mass notification, in-building notification, outdoor notification, and personal notification. Thousands of institutions and enterprise organizations worldwide trust and rely on Alertus to protect millions of people. To learn more, visit www.alertus.com.



Guide Overview

The **Aiphone Configuration Guide** provides instructions for using and configuring the Aiphone with the Alertus Server.

This guide is intended for Alertus customers. For more information or questions regarding the Aiphone integration with the Alertus Server, contact Alertus Technical Support at support.alertus.com.

Related Document(s)

Certain products and/or features mentioned in this guide may require the use of other Alertus hardware and/or software solutions. Relevant documentation (as applicable) is listed below.

- Alert Beacon Peripherals Hardwired Duress Button Configuration
- Alertus Knowledge Base IP-AVA Installation Guide



Version History

Version #	Published Date	Description of Changes & Comments
1.0	07/07/2022	 Major Content Update: Published initial version of the document.



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1. Before You Get Started

Alertus integrates with Aiphone IX and IXG series endpoints (emergency towers, video doorbells, single/multi-tenant intercoms etc.). There are two types of integration scenarios with the Alertus Server:

- 1. Alertus is activated by Aiphone Emergency tower/video doorbell call buttons and/or emergency buttons.
- 2. Alertus announciates a Text-to-Speech (TTS) and/or pre-recorded alert message through Aiphone endpoints so they can be used as an emergency paging solution.

Configuration steps for each scenario in an Aiphone IX product line environment are explained in greater detail in the sections below.

2. Alertus Activation by Aiphone Emergency Button

This integration can be used with IX based Emergency Towers and Wall Boxes with an emergency button. It requires an Alert Beacon or an IP Relay configured to the Alertus Server.

2.1 Connections

IX Series Emergency Wall Boxes and Emergency Towers are managed by at least one master station (IX-MV7 series). This integration requires a dry contact connection between IX-MV7 Master station and Alertus Alert Beacon.



Figure 1: Master Station

Connections will be made on the backend of the Master Station using the Low Voltage Connection Terminal.





Figure 2: Low Voltage Connection Terminal

An AWG 18 cable is recommended for the dry contact closure connections between the Alertus Alert Beacon and Aiphone Master Station.

An AWG18 pair has to be connected to NO1 and COM1 connections on the low voltage terminal block.

Connection and disconnection of low-voltage lines:

- 1. Insert the line into the quick connection terminal.
- 2. If the line does not go in easily, push the low-voltage line into the terminal while pressing down the detachment button.
- 3. When removing a low-voltage line, pull on the line while pressing down the detachment button.







Figure 4: Master Stations Schematic





Figure 5: Terminals



2.2 IX Master Station Configuration

The Aiphone IX Master Station needs to be configured using the IX Support Tool.



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- Station Information		Station Info	rmation			Option In	put / Relay Output Settings							Т	ext in red ar	e require	d settin	gs. ^
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System Information	#					Relay Ou	itput 1		Status O	utput 1								
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Option Input						Name	Function		Normal	Priority	Urgent	Normal	Priority	Urgent	Normal F	riority	Urgent	Nc
Relay Output	0001	4000	Front Desk		IX-MV7-*		Door Release											
Paging Settings	0002	4001	Emergency Tower		IX-DV, IX-DVF(-*)		Door Release											
Function Settings	0003	4002	Wall Box		IX-DA		Door Release											
Transfer Settings Station Settings	0004	4003	Classroom 1		IX-DV, IX-DVF(-*)		Door Release											
Maintenance	0005	4004	Classroom 2		IX-EA, IX-EAU		Door Release											
	0006	4005	Classroom 3		IX-SS-2G		Door Release											
	0007	4006	Classroom 4		IX-RS-*		Deex Balance											
	0008	4007	Backup Desk		IX-MV7-*		Status Output	~										
	0009	4008	Classroom 5		IX-DV. IX-DVF(-*)		Door Release			_								
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Figure 6: IX Master Station Support Tool Configuration

- 1. After logging in, on the main page, select Relay Output from the left-hand menu.
- 2. From the top Display Settings, select Relay Output 1.

Note: Any master station receiving emergency calls from the emergency towers can be used as a gateway for Alert Beacon dry contact closure connection. In the example on Figure 5, Backup Desk Master Station is used for dry contact closure connections.

- 3. Configure Function for the Relay Output 1 to Status Output.
- 4. Select Status Output 1 Incoming Call settings checkboxes for Priority and Urgent.
- 5. After configuration is done, it can be saved with the Update button in the upper right-hand corner.

Note: Saved settings have to be uploaded to the station from the File Menu.



Figure 7: Saved Settings

ľ	🔢 IX Support Tool - [Relay Output] - [System Name:Alertus IX Training]											
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		Del	lete Existin									
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		Exit										
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Please refer to the <u>Alert Beacon Peripherals - Hardwired Duress Button Configuration</u> from Alertus Knowledge base for Alertus configuration.

3. Alertus Paging Aiphone Units with Audible Text-to-Speech/Pre-recorded Message

This integration can be used with any IX/IXG system. Alertus alerts can be paged natively on Aiphone endpoints during emergencies.

This integration requires an Alertus IP-AVA interface to connect with an Aiphone Master Station.

3.1 Connections

AWG18 pair cable is recommended for all connections between the Alertus IP-AVA interface and the Aiphone Master Station.



The Alertus IP-AVA unit will be connected to the Aiphone Master Station with two connections:

a. Dry contact closure from IP AVA towards Aiphone Master Station Contact Input. This connection requires an option cable on the Master Station.

The dry contact closure will be connected to the Contact Input 1 (red and brown) using the Aiphone Option Cable.



Figure 8: Aiphone Option Cable

b. Line Level Audio from the IP-AVA to Aiphone Master Station Low Voltage Connection Terminal.

Line Level Audio will be connected to IX Master Station Low Voltage Connection Terminal on connections B- and B+.

3.2 Aiphone Configuration

- 1. From the Aiphone IX Support Tool, go to Option Input on the left-hand menu.
- 2. Make sure to select Option Input 1 from the Display Settings.
- 3. Configure the Master Station Function Field to External Input Page.



Figure 9: Option Input

File(F) Edit(E) Language(V)	Tools(1) Help(H))						Press F1 (o	or Fn + F1) key after	selecting	an item to vie	w detailed explanation.
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Category: Master Station Station Ty	pe: IX-	MV7-*											
Table View	Ro	W Number	Previous Next Display	y	Display Setting Option Input 1	s] ~							
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Station Information		Station Info	rmation			Option Input / Relay Output Settings Text in n						Text in red a	are required settings.
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System Information	#					Option Input 1							
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Trelay Output	0001	4000	Front Desk		IX-MV7-*		External Input Page	Make	0 (Immediate)				
Paging Settings Eunction Settings	0002	4001	Emergency Tower		IX-DV, IX-DVF(-*)		Call	Make	0 (Immediate)	_			
Transfer Settings	0003	4002	Wall Box		IX-DA		Call	Make	200-2000 [msec]	200			
⊕ Station Settings	0004	4003	Classroom 1		IX-DV, IX-DVF(-*)		Call	Make	0 (Immediate)				
⊕ Maintenance	0005	4004	Classroom 2		IX-EA, IX-EAU		Call	Make	0 (Immediate)				
	0006	4005	Classroom 3		IX-SS-2G		Call	Make	0 (Immediate)				
	0007	4006	Classroom 4	_	IV.BS.*	Call Make 0 (Immediate)							
	8000	4007	Backup Desk		IX-MV7-*		External Input Page	✓ Make	0 (Immediate)				
	0009	4008	Classroom 5		IX-DV, IX-DVF(-*)		Call	Make	0 (Immediate)				

- 4. Go to the Paging Settings > All Page from the left-hand menu.
- 5. Select all the end units that will annunciate the alert by selecting the checkboxes.



Figure 10: All Page

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Station Information	Station Information						Paging Settings		Text in red are required settings.
etwork Settings		Identificatio	n				All Page		
ystem Information	#					Total	Unicast		
all Settings ption Input / Relay Output Settin	Number Name Location		tion Station Type		0001	0002	00		
Option Input							4000 / Front Desk / / IX-MV7-*	4001 / Emergency Tower / / IX-DV, IX-DVF(-*)	4002 / Wall Box / / IX-DA
- Relay Output	0001	4000	Front Desk		IX-MV7-*	8		<u> </u>	
aging Settings	8000	4007	Backup Desk		IX-MV7-*	8			
unction Settings Transfer Settings									
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- 6. Go to the Paging Settings > Option Input Page from the left-hand menu.
- 7. Select Option Input 1 from the Display Settings dropdown.
- 8. Select All Page as the destination and set priority as Urgent.



Figure 11: Option Input Page

🚛 IX Support Tool - [Option Input Pa	ge] - [Sy	stem Name:A	lertus IX Training]								-	0 ×
AIPHONE IX Sup	por	t Tool								Press F1 (or Fn + F1) key	after selecting an item to view detail	ed explanation.
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- Station Information		Station Info	rmation			Paging Settings					Text in red are requ	ired settings.
Network Settings	I 1	Identificatio	n			Option Input Page						
System Information Call Settings	#					Option Input 1						
Option Input / Relay Output Setting	I 1	Number	Name	Location	Station Type	Destination	Group		Priority	Message File Name	Play Count [time(s)]	
- Option Input	0001	4000	Erest Deels		IV M0/7 1	All Press	Group Humbor	Onen	Unnet			
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- Option Input Page - Option Settings												
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9. Reduce the Paging Wait Timer to 1 second.



Figure 12: Paging Wait Timer

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File(E) Edit(E) Language(V)	Toole(T) Help(H	Alertus iX Trainingj								
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Table View	Ro	W Number	Previous Next Displa	у							
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		Station Info	rmation			Paging Settings				Text in red are required settings.	
B Network Settings		Identificatio	n			Paging Origination				1	
System Information Call Settings Option Input / Relay Output Settir Paging Settings	#	Number	Name	Location	Station Type	Paging Timeout [sec]	Paging Wait Timer [sec]	Urgent Page Response	Lock Paging		
- Paging Origination	0001	4000	Front Desk		IX-MV7-*	30	10	Disable	Disable		
- All Page	8000	4007	Backup Desk		IX-MV7-*	30	10	Disable	Disable		
Transfer Settings Station Settings Maintenance											
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10. Click the Update button and upload the configuration to the stations from the File Menu.

Please refer to <u>Alertus Knowledge Base - IP-AVA Installation Guide</u> for the connection diagrams and configuration of the Alertus Server.