



INTEGRITI AIPHONE IX INTERCOM INTEGRATION MANUAL



INNER RANGE recommends that all Inner Range systems be installed & maintained by FACTORY CERTIFIED TECHNICIANS.

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Integrati Aiphone IX Intercom Integration Manual

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Intercom Capabilities

Core Intercom Capabilities

Feature	Feature Description	Ver	Y/N
<i>Receive Events/Alarms from the Intercom System</i>	Log events/alarms occurring on the Intercom system to Integriti's Review.	20	✓
<i>Trigger Integriti Actions on Intercom Events/Alarms</i>	Trigger actions to automatically occur in Integriti whenever specific events/alarms are received from the Intercom system.	20	✓
<i>Generate Alerts from Intercom Events/Alarms</i>	Automatically generate and restore Alerts tied to a specific Intercom in Integriti whenever specific events/alarms are received from the Intercom system.	20	✓
<i>Automatically Show Footage from Associated Cameras</i>	Associated CCTV Footage can be directly viewed from Intercoms, or Intercom events/alarms (with an associated Intercom) where the Intercom has an associated Camera.	20	✓
<i>Display Connection Status to Intercom System</i>	Display whether or not Integriti is currently connected to the Intercom system.	20	✓
<i>Show Intercom Status – Online/Offline/Alarm/Call State</i>	The current online, offline, alarm and call status of configured Intercoms will be visible directly through Integriti.	20	✓
<i>Log Calls Occuring in the Intercom System</i>	Calls occurring in the Intercom system will be logged to Integriti's Review.	20	✓
<i>Categorised Review Records</i>	Review generated by the integration will have a different category for different event types, allowing for easy filtering of specific CCTV events	20	✓
<i>Trigger Inputs on Intercom Event</i>	Inputs in Integriti can be automatically triggered and restored when specified types of events are received from the CCTV system.	20	✓
<i>Trigger Actions in the Intercom System</i>	Trigger actions or commands in the Intercom system directly from Integriti.	20	✓
<i>Unlock Associated Door</i>	Unlock associated Integriti Door/s directly from an associated Intercom Point	20	✓

Feature	Feature Description	Ver	Y/N
<i>Associate Intercoms With Entities</i>	Intercoms loaded from the CCTV system can be associated with Integriti Entities to allow direct control of one from the other.	20	✓
<i>Create Child Devices From Intercom Configuration</i>	Child Intercom Points will be created based on the Intercom configuration on Refreshing Child Devices.	20	✓
<i>View and Control Intercoms on Schematics</i>	Intercoms can be added to Schematics Maps in Integriti and directly viewed and controlled directly from the Schematic. Each intercom's state is immediately visible on the Schematic where available.	20	✓
<i>Sync Time (via NTP)</i>	Sync the time of the Intercom system and Integriti to match via an NTP.	20	✓
<i>Automatically Control Integriti Entities on Intercom Events</i>	Automatically control Integriti Entities on Intercom Events. For example automatically unlocking an associated Door on a Door Unlock event being received from an Intercom	20	✓

Advanced Intercom Capabilities

Feature	Feature Description	Ver	Y/N
<i>Automatically Load Intercom Configuration</i>	Refreshing Child Devices will automatically populate all cameras configured in the Intercom System into Integriti when run. If not supported, intercom configuration will need to be manually entered into Integriti.	20	✓
<i>Create Intercom Calls</i>	Create calls between Intercoms in the Intercom system either manually or automatically (from an event) using Integriti.	20	✓
<i>Terminate Intercom Calls</i>	Terminate pending or active calls in the Intercom system either manually or automatically (from an event) using Integriti.	20	✓
<i>Answer Intercom Calls</i>	Answer pending calls in the Intercom system either manually or automatically (from an event) using Integriti.	20	✓
<i>Forward Intercom Calls</i>	Forward active calls in the Intercom system from one Intercom to another either manually or automatically (from an event) using Integriti.	20	✓
<i>Place Intercom Calls On Hold</i>	Place active calls in the Intercom system on hold either manually or automatically (from an event) using Integriti.	20	✗
<i>Specify Call Urgency When Creating Calls</i>	When creating calls between Intercoms in the Intercom system, the urgency of the call can be specified from Integriti.	20	✗
<i>Make/Terminate PA Calls</i>	Create Announcements in the Intercom System to specified Intercoms from Integriti.	20	✗
<i>Adjust Intercom Call Volume</i>	Change the call and/or audio volume of Intercoms from Integriti.	20	✗
<i>Restart Intercoms Remotely</i>	Restart Intercoms either manually or automatically (from an event) using Integriti.	20	✗
<i>Activate Intercom Relay</i>	Control the On/Off state of a Relay on an Intercom.	20	✗
<i>Control Intercom Audio Streaming Functionality</i>	Start streaming music or audio on selected Intercoms in the Intercom System in Integriti.	20	✗
<i>Initiate Covert Monitoring of Intercoms</i>	Initiate covert monitoring of a specified Intercom in the Intercom system from Integriti. Intercoms can be monitored either via a specified Intercom or directly through the intercom's video viewer (Where supported).	20	✗

Feature	Feature Description	Ver	Y/N
<i>Simulate Button Press on Intercom</i>	Simulate the behaviour of pressing a button on a specified Intercom in the Intercom system from Integriti.	20	✓
<i>Soft Button Push To Talk</i>	Simulate a Push-To-Talk button on a selected integration from Integriti - Either as a command or through the call queue interface.	20	✗
<i>Stream Live Footage From Intercom</i>	Stream live video footage directly from an Intercom into Integriti's video viewer.	20	✓
<i>Select Custom Aspect Ratio</i>	Select a Custom Aspect Ratio for video footage streamed from an Intercom.	20	✓
<i>Digital PTZ</i>	Digitally zoom the Intercom Video stream's image.	20	✓
<i>Stream Audio From Intercom</i>	Receive audio from the microphone on a supported Intercom through an Integriti client workstation	20	✓
<i>Send Audio to Intercom</i>	Send audio from an Integriti client workstation out of the speakers on a supported Intercom.	20	✗
<i>64-Bit Server Support</i>	The integration supports being run on the 64-bit integration server.	20	✓
<i>Intercom Call Queue Support</i>	The current call queue for Intercoms on the Intercom System can be viewed through Integriti's call queue interface.	20	✗

Integrati Aiphone IX Intercom Integration Compatibility

Licensing Requirements

The Integrati Aiphone IX Intercom Integration requires an Integrati/Infiniti v21 license or higher to be present on the product key running the integration.

Integrati Intercom integrations require 1 Intercom license per Intercom to be used in the system. Unlicensed intercoms will still show up in Integrati, however will not be able to be used.

Minimum Installed Integrati Version

The Integrati Aiphone IX Intercom integration is only compatible with an installation of Integrati Pro or Infiniti that is v20.0 or higher.

Tested Against

The Integrati Aiphone IX Intercom plugin was built and tested against the following versions of software:

- Aiphone IX-MV7 – Firmware v5.50
- Aiphone IX-DV – Firmware v5.60
- Aiphone IX-SS-2G – Firmware v5.60

Installation

In order to use the Integrity Aiphone IX Integration, it is necessary to enable the CGI interface on each intercom station and to configure the master station to send events via SIF to the Integrity Integration Server.

1. Download and install the Aiphone IX Support Tool software. Contact your Aiphone representative for more information on installation and use of this software.
2. Ensure all intercoms to configure are shown in the Support Tool. If some intercoms are not shown, it may be necessary to load the Support Tool configuration from when the intercoms were initially configured.

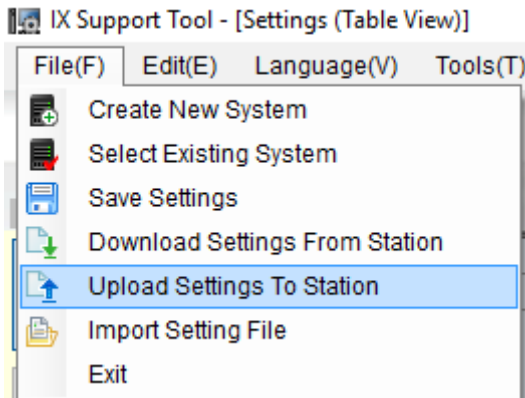
#	Station Information				
	Identification				
	Number	Name	Name (furigana)	Location	Type
001	001	Master Station1		Reception	Master Station
002	002	Video Station1		Entrance	Video Door Station

3. From the top left of the screen select **Table View**.
4. Select **Function Settings** → **CGI** from the tree on the left.
5. In the table that appears ensure that the 'CGI Functionality' column is set to 'Enable' for the Central Master Station (that will be referred to in the Integrity setup) and any other Intercom Stations that will need to have commands invoked on them (Create Call, End Call, Restart Intercom, etc.).

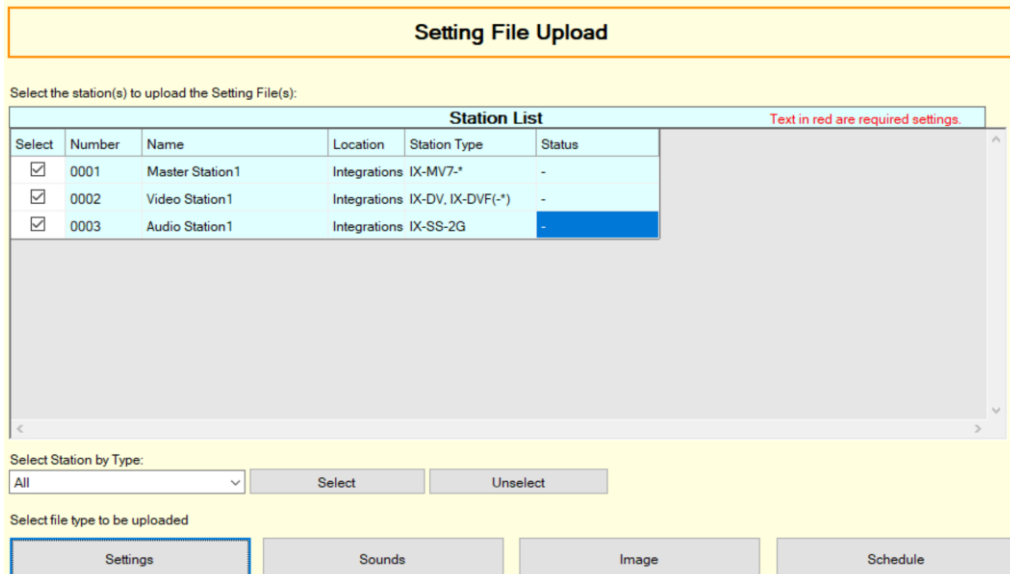
#	Station Information				Function Settings
	Identification				CGI Integration
	Number	Name	Location	Type	CGI Functionality
001	001	Master Station1	Reception	Master Station	Enable
002	002	Video Station1	Entrance	Video Door Station	Enable
					Disable

6. Select the **Update** button to save the new configuration.
7. If event monitoring is to be used:
 - a. In the Aiphone IX Support Tool software, select **Function Settings** → **SIF** from the tree on the left.
 - b. Fill in the following settings for each intercom station that enable event monitoring should be enabled on:
 - **SIF Functionality:** Enable
 - **No. 01 Program Type:** 0100
 - **No. 01 IPv4:** IP address of the Integration Server
 - **No. 01 Destination Port:** 10000 (may be changed; see Configuration)
 - **No. 01 SSL:** Disable
 - **No. 01 Connection:** Socket
 - **No. 01 Transmission Trigger:** Select events that should be sent here.
 - c. Select the **Update** button to save the new configuration.

8. Select **File** → **Upload Settings To Station**



9. In the Station List table that appears, select all of the Intercoms that have been changed and press **Settings** to upload the changed settings to each station.



Configuration

This section specifies the Aiphone IX Intercom Integration specific configuration details. Please refer to the 'Integrati Integrations – Intercom' manual for a detailed description on how fully to configure and use Intercom integrations in Integrati/Infiniti.

Ports Used

The following ports are used for communication between the Integrati Aiphone IX integration and the Aiphone IX system/point. These ports should be configured in the Integrati Integration Server and any Integrati Client Machine's firewalls to allow the integration to be used.

- The listening port specified in Connection Configuration

Connection Configuration

Connection Configuration	
▼ Connection Configuration	admin@127.0.0.1:10000
▼ Connection	
Login Name	admin
Password	*****
Central Master Station IP Address	127.0.0.1
Port	10000
Use HTTPS	<input checked="" type="checkbox"/>
Certificate Validation Mode	Default ▼

Connection

Central Master Station IP Address – The IP Address of the Master Station to connect to.

Login Name – The Username of the Aiphone IX User to connect to the Server with. This User should have sufficient permissions configured in Aiphone IX to allow all of the features of the plugin to be used.

Password - The Password of the Aiphone IX User to connect to the Server with.

Port – The Port to listen for events from the Aiphone intercoms on. This is 10000 by default.

Use HTTPS – Whether to use HTTPS when connecting to the stations.

Certificate Validation Mode – When using HTTPS, how to validate the remote certificate.

- **Default** – Accept only a valid certificate. In place of the IP address, a hostname matching the certificate must be specified.
- **Accept All** – Accept any valid or invalid certificate.
- **Specified Thumbprint** – Accept a valid certificate or a certificate with the specified SHA-1 thumbprint.

Certificate Thumbprint – When the Certificate Validation Mode is 'Specified Thumbprint', the SHA-1 thumbprint of the certificate.

Example: 5CD2BFCF0B5DD06ABEB9F66400FAD96A11802E65

Logging

Log Verbosity - Only logs of the specified level or higher will be logged. If Warning is selected, only Warning, Error and Fatal logs will be written to the log.

Station Connection Configuration

IP Address – The IP Address of the station. Will be filled by Refresh Child Devices.

Connection – See Connection Configuration above.

Login Name – The Username of the Aiphone IX User to connect to the station with.

Password - The Password of the Aiphone IX User to connect to the station with.

Commands

Intercom Master Station Commands

The following commands can be performed on an Intercom Master Station:

Call Intercom	<p>Creates a call from the selected Intercom Point to the Station Number given in 'Destination Station Number' of the priority given in 'Call Priority'.</p> <p>To call the Intercom's default Master Station (the same behaviour as pressing the call button on the selected Intercom) leave 'Destination Intercom Id' blank.</p>
Call Workstation	<p>Invokes a call from the selected Intercom Point to the Station Number mapped to the given 'Workstation Host Name' (If a mapping is correctly configured). For this command to work the 'Workstation To Station Number Map' property of the Intercom System must be correctly configured.</p>
Answer Call	<p>Answers the currently connected call on the selected intercom.</p>
Enable/Disable Door Release Ability	<p>Allows the ability of the selected Intercom Master Station to remotely unlock doors on connected Intercom Door Stations to be enabled or disabled. If Enabled is set to false, the selected Intercom Master Station will be unable to use the door unlock button to remotely unlock the door of a connected Intercom Door Station. To re-enable this ability, set Enabled to true.</p>
Set Contact Input/Output State	<p>Changes the state of the contact input/output on the selected Intercom Point identified by 'Contact Number' to the state set in 'Contact Status'.</p> <p>For example, setting 'Kind' to 'Output', 'Contact Number' to 1 and 'Contact Status' to 'Make' will set the state of output one on the selected Intercom Station to 'Make'.</p>
Restart Intercom	<p>Restarts the selected intercom.</p>
Change Sound	<p>Sets the sound used for 'Sound Type' to the specified 'Sound Source Number' for the selected Intercom Point.</p> <p>'Sound Source Number' must be between 1 and 100 and indicates the source number of the sound to use. A sound must be configured at the specified source number for this command to work.</p> <p>For a 'Sound Type' of 'Ring' or 'Contact Ring' the 'Station Number' must be set to identify which calls the ringtone will be changed for.</p>

Advanced Command Sends a custom Aiphone CGI command to the selected Intercom Point. See the Aiphone CGI interface documentation for more details on sending CGI commands.

Intercom Point Commands

The following commands can be performed on an Intercom Point:

Call Intercom	<p>Creates a call from the selected Intercom Point to the Station Number given in 'Destination Station Number' of the priority given in 'Call Priority'.</p> <p>To call the Intercom's default Master Station (the same behaviour as pressing the call button on the selected Intercom) leave 'Destination Intercom Id' blank.</p>
Call Workstation	<p>Invokes a call from the selected Intercom Point to the Station Number mapped to the given 'Workstation Host Name' (If a mapping is correctly configured). For this command to work the 'Workstation To Station Number Map' property of the Intercom System must be correctly configured.</p>
Answer Call	<p>Answers the currently connected call on the selected intercom.</p>
End Call	<p>Ends the currently connected call on the selected Intercom. NOTE: This command will only work on intercoms with a firmware version higher than v2.0</p>
Set Contact Input/Output State	<p>Changes the state of the contact input/output on the selected Intercom Point identified by 'Contact Number' to the state set in 'Contact Status'.</p> <p>For example, setting 'Kind' to 'Output', 'Contact Number' to 1 and 'Contact Status' to 'Make' will set the state of output one on the selected Intercom Station to 'Make'.</p>
Restart Intercom	<p>Restarts the selected intercom.</p>
Change Sound	<p>Sets the sound used for 'Sound Type' to the specified 'Sound Source Number' for the selected Intercom Point.</p> <p>'Sound Source Number' must be between 1 and 100 and indicates the source number of the sound to use. A sound must be configured at the specified source number for this command to work.</p> <p>For a 'Sound Type' of 'Ring' or 'Contact Ring' the 'Station Number' must be set to identify which calls the ringtone will be changed for.</p>

Advanced Command Sends a custom Aiphone CGI command to the selected Intercom Point. See the Aiphone CGI interface documentation for more details on sending CGI commands.
