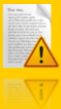




## INTEGRITI BAS IP INTERCOM INTEGRATION MANUAL



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

**For a list of Accredited Dealers in your area refer to the Inner Range Website.**

**<http://www.innerrange.com>**

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# *Integrati BAS IP 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.	19	✓
<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.	19	✓
<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.	19	✓
<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.	19	✓
<i>Display Connection Status to Intercom System</i>	Display whether Integriti is currently connected to the Intercom system.	19	✓
<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.	19	✓
<i>Log Calls Occuring in the Intercom System</i>	Calls occurring in the Intercom system will be logged to Integriti's Review.	19	✓
<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	19	✓
<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.	19	✓
<i>Trigger Actions in the Intercom System</i>	Trigger actions or commands in the Intercom system directly from Integriti.	19	✓
<i>Unlock Associated Door</i>	Unlock associated Integriti Door/s directly from an associated Intercom Point	19	✓

<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.	19	✓
<i>Create Child Devices From Intercom Configuration</i>	Child Intercom Points will be created based on the Intercom configuration on Refreshing Child Devices.	19	✓
<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.	19	✓
<i>Sync Time (via NTP)</i>	Sync the time of the Intercom system and Integriti to match via an NTP.	19	✓
<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	19	✓

## 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 Integrity when run. If not supported, intercom configuration will need to be manually entered into Integrity.	19	x
<i>Create Intercom Calls</i>	Create calls between Intercoms in the Intercom system either manually or automatically (from an event) using Integrity.	19	✓
<i>Terminate Intercom Calls</i>	Terminate pending or active calls in the Intercom system either manually or automatically (from an event) using Integrity.	19	✓
<i>Answer Intercom Calls</i>	Answer pending calls in the Intercom system either manually or automatically (from an event) using Integrity.	19	x
<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 Integrity.	19	x
<i>Place Intercom Calls On Hold</i>	Place active calls in the Intercom system on hold either manually or automatically (from and event) using Integrity.	19	x
<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 Integrity.	19	x
<i>Make/Terminate PA Calls</i>	Create Announcements in the Intercom System to specified Intercoms from Integrity.	19	x
<i>Adjust Intercom Call Volume</i>	Change the call and/or audio volume of Intercoms from Integrity.	19	✓
<i>Restart Intercoms Remotely</i>	Restart Intercoms either manually or automatically (from an event) using Integrity.	19	✓
<i>Activate Intercom Relay</i>	Control the On/Off state of a Relay on an Intercom.	19	✓
<i>Control Intercom Audio Streaming Functionality</i>	Start streaming music or audio on selected Intercoms in the Intercom System in Integrity.	19	x
<i>Initiate Covert Monitoring of Intercoms</i>	Initiate covert monitoring of a specified Intercom in the Intercom system from Integrity. Intercoms can be monitored either via a specified Intercom or directly through the intercom's video viewer (Where supported).	19	✓

<i>Simulate Button Press on Intercom</i>	Simulate the behaviour of pressing a button on a specified Intercom in the Intercom system from Integriti.	19	✘
<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.	19	✘
<i>Stream Live Footage From Intercom</i>	Stream live video footage directly from an Intercom into Integriti's video viewer.	19	✔
<i>Select Custom Aspect Ratio</i>	Select a Custom Aspect Ratio for video footage streamed from an Intercom.	19	✔
<i>Digital PTZ</i>	Digitally zoom the Intercom Video stream's image.	19	✔
<i>Stream Audio From Intercom</i>	Receive audio from the microphone on a supported Intercom through an Integriti client workstation	19	✘
<i>Send Audio to Intercom</i>	Send audio from an Integriti client workstation out of the speakers on a supported Intercom.	19	✘
<i>64-Bit Server Support</i>	The integration supports being run on the 64-bit integration server.	19	✔
<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.	19	✘

## Integriti BAS IP Intercom Integration Compatibility

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### Important Notes

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All intercom endpoints with the same URL connecting to Integriti on the same PC should be running on the same integration server to receive events.

### Required Integriti Version License

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The Integriti BAS IP Intercom Integration requires an Integriti/Infiniti v21 license or higher to be present on the product key running the integration.

### Minimum Installed Integriti Version

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The Integriti BAS IP Intercom integration is only compatible with an installation of Integriti Pro or Infiniti that is v20.0 or higher.

### Licensing Requirements

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The intercom integration license (996932) is required to use the BAS IP intercom plugin.

### Tested Against











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The Integriti BAS IP Intercom plugin was built and tested against the following modules:

- Android Multiapartment Panel AA-12FB, firmware v3.10.0
- Individual Panel AV-01BD, firmware v2.5.0

## BAS IP Configuration

### Event Monitoring

-  Dashboard
-  Network
-  Panel
-  Apartments
-  Access management
-  Forward
-  Advanced
-  Logs
-  Security
-  System


Custom NTP

URL  
.....

Timezone  
UTC+10:00

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Manual date and time setting

Date/time	Timezone
 2021-07-01 17:05	UTC+10:00

#### Management system

Use BAS-IP Link server

URL  
10.25.1.62

Password  
●●●●●●

Send realtime logs to server

Heartbeat to server

Enable the 'Use BAS-IP Link server' and 'Send realtime logs to server' options, in the intercom's web interface under Network -> Management system, for the intercom to send logs to Integriti. Add the IP address of the PC Integriti integration server is running on in the 'URL' field. If event monitoring authentication is required then add a password, then reboot the intercom device.



## Video Streaming

The screenshot displays the basIP web interface for configuring a panel. The top navigation bar shows the basIP logo, a back arrow, a menu icon, and a yellow warning icon labeled 'OFFLINE'. The left sidebar contains a list of menu items: Dashboard, Network, Panel (highlighted), Apartments, Access management, Forward, Advanced, Logs, Security, and System. The main content area is divided into two sections. The upper section shows the panel's status as 'Enabled' with a checkmark. Below this, the SIP number is 'sip:11xx@192.168.140.128'. To the right, 'Call max time' is set to 35 and 'Talk max time' is set to 120. There is an unchecked checkbox for 'Autocall after N digits' and a 'Digits count' dropdown menu currently set to 1. The lower section is titled 'Device settings' and includes 'Video quality' set to 640x480, 'RTP data profile' set to 102, a 'Volume level' slider with a red marker at 5, 'RTSP Username' set to 'user', and 'RTSP Password' masked with seven dots. At the bottom of this section, the 'Proximity sensor' checkbox is checked.

Add an 'RTSP Username' and 'RTSP Password' on supported intercom's web interface under Panel -> Device settings to be able to view the live video stream in Integrity. Then reboot the intercom device. If these RTSP options are not available then the standard intercom login credentials can be used to access the live video stream.

## Integrati Configuration

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

Although BAS IP intercom endpoints can connect to a central management system, Integrati connects directly to the intercom endpoints not the intercom management system. The below section outlines connection configuration to individual intercom endpoints.

### Ports Used

The following ports are used for communication between the Integrati BAS IP integration and the BAS IP endpoint. These ports should be configured in the Integrati Integration Server and any Integrati Client Machine's firewalls to allow the integration to be used.

- TCP - 80
- Any other ports configured in 'Connection Configuration'

### Connection Configuration

▼ Connection Configuration	@127.0.0.1
▼ Connection	
Address	127.0.0.1
Login Name	
Password	
Connecting to	Other Intercom Type ▼
Api Version Path	api/v0
▼ Event Listener Base URL	http://127.0.0.1:80/api/v0
Address	127.0.0.1
Port	80
Base Path	api/v0
Require Event Monitoring Authentication	<input checked="" type="checkbox"/>
Event Monitoring Password	
Optional RTSP Username	
Optional RTSP Password	
▼ Logging	
Log Verbosity	Warning ▼

### Connection

**Address** - The IP Address of the intercom endpoint to connect to.

**Login Name** - The Username of the BAS IP User to connect to the intercom endpoint with.

**Password** - The Password of the BAS IP User to connect to the intercom endpoint with.

**Connecting to** - Specify the BAS IP intercom endpoint type to connect to. If the required type is not in the list write it in then specify the 'Api Version Path' for the new device if different to the default one provided.

**Api Version Path** - Specify the BAS IP Api version path if different to the default one provided. This Api path is used to connect to the intercom endpoint with when 'Other Intercom Type' has been selected.

#### Event Listener Base URL

- **Address** - The address that Integrati will listen on for events from the intercom endpoint. This address should be specified in Network -> Management system -> URL as outlined in the 'BAS IP Configuration' section above.

- **Port** - The Port that Integriti will listen on for events from the intercom endpoint. The default is port 80 and does not need to change unless otherwise advised by BAS IP support.
- **Base Path** - The base path that Integriti will listen on for events from the intercom endpoint. The current default path is 'api/v0' and does not need to be changed unless otherwise advised by BAS IP support.

**Require Event Monitoring Authentication** - If set Integriti will use the Bearer authentication scheme to authenticate the BAS IP intercom user before receiving events.

**Event Monitoring Password** - If event monitoring authentication is required specify the password of the user to listen to the BAS IP intercom device events with. This password should be configured in the intercom's web interface 'Password' field under 'Network -> Management System', as outlined in the 'BAS IP Configuration' section above, to receive events.

**Optional RTSP Username** - The RTSP Username to authenticate the video stream with. This username can be configured in the intercom's web Interface 'RTSP Username' field under 'Panel -> Device settings', as outlined in the 'BAS IP Configuration' section above.

**Optional RTSP Password** - The RTSP Password to authenticate the video stream with. This password can be configured in the intercom's web Interface 'RTSP Password' field under 'Panel -> Device settings', as outlined in the 'BAS IP Configuration' section above.

If an intercom endpoint does not have these RTSP options available leave the RTSP Username and Password empty for Integriti to use the standard intercom 'Login Name' and 'Password' to authenticate the RTSP stream with.

## Logging

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**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.

## Video Streaming In Integriti

Video Streaming	
Video Streaming Supported	<input checked="" type="checkbox"/>
Aspect Ratio	Use Parent Aspect Ratio ▾
Override Site Default Pre-Event Playback Buffer	<input type="checkbox"/>

**Video Streaming Supported** - Enable this option to view video from supported intercom endpoints.

**Aspect Ratio** - Select the Aspect Ratio to use for associated Video Streams. If Custom is selected, specify the Aspect Ratio in 'Custom Aspect Ratio' as width/height.

**Override Site Default Pre-Event Playback Buffer** - Not applicable for this integration.

## Commands

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### Intercom Endpoint Commands

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The following commands can be performed on an Intercom endpoint:

<b>Call Intercom</b>	<ul style="list-style-type: none"> <li>• Currently only supported on Multi-apartment panels.</li> <li>• This command initiates a call from the selected intercom endpoint to the intercom specified by the destination number.</li> <li>• Specify the 'Destination Intercom Number' to dial from this intercom.</li> </ul>
<b>End Call on Intercom</b>	<ul style="list-style-type: none"> <li>• Currently only supported on Multi-apartment panels.</li> <li>• Ends a call on the selected intercom.</li> </ul>
<b>Open Intercom Door</b>	Opens the specified 'Lock Number' on the selected intercom endpoint.
<b>Set Speaker Volume</b>	Select the value to set the volume to on the selected intercom endpoint.
<b>Reboot The Panel</b>	Reboots the selected intercom endpoint.

## Troubleshooting

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**Integrity is not receiving events from the intercom endpoint**

- Is persisted connection running?
- Is the 'Event Listener Base URL' specified correctly? The IP Address of the listening PC should be specified in intercom's web interface 'URL' field under Network -> Management system.
- Is the event monitoring password correct? This password should match the password in the intercom's web interface 'Password' field under Network -> Management system.
- Are all intercom endpoints connected to the same pc with the same base URL running on the same integration server? If not select the correct server in the intercom settings editor under Device Details -> Associated Integration Server.
- If none of the above resolve the issue reboot the intercom point.

**Cannot view video in Integrity from a supported intercom's camera**

- Is the 'Video Streaming Supported' option enabled in the intercom settings editor?
- Are the RTSP credentials, specified in the intercom's settings editor, correct?
- The credentials should be specified for supported devices in the intercom's web Interface 'RTSP Password' and 'RTSP Username' fields under 'Panel -> Device settings' to view video.
- If the intercom does not have the RTSP credentials options in its web interface leave these fields empty. Integrity will use the standard intercom credentials.