

#### **DevConnect Program**

# **Application Notes for Aiphone IX Series 2 Audio Door Stations (IX-RS-BT) with Avaya IP Office Server Edition -Issue 1.0**

### Abstract

These Application Notes describe the configuration steps required to integrate Aiphone IX Series 2 Audio Door Station (IX-RS-BT) Version 7.00 with Avaya IP Office Server Edition 11.1 and Avaya IP Office 500V2 Expansion System 11.1. The Aiphone IX-RS-BT Audio Door Station, which is part of the Aiphone IX Series 2 Audio Door Stations, was used for the compliance test. Aiphone IX-RS-BT Audio Door Station is a surface mount, weather resistant audio door station. It has one dry contact that can be used to release doors when activated by a phone. Aiphone IX-RS-BT Audio Door Station registers with Avaya IP Office as a SIP endpoint.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as the observations noted in **Section 2.2**, to ensure that their own use cases are adequately covered by this scope and results.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the Avaya DevConnect Program.

# 1. Introduction

These Application Notes describe the configuration steps required to integrate Aiphone IX Series 2 Audio Door Station (IX-RS-BT) Version 7.00 with Avaya IP Office Server Edition 11.1 and Avaya IP Office 500V2 Expansion System 11.1. The Aiphone IX-RS-BT Audio Door Station, which is part of the Aiphone IX Series 2 Audio Door Stations, was used for the compliance test. Aiphone IX-RS-BT Audio Door Station is a surface mount, weather resistant audio door station. It has one dry contact that can be used to release doors when activated by a phone. Aiphone IX-RS-BT Audio Door Station (IX-RS-BT) registers with Avaya IP Office as a SIP endpoint.

# 2. General Test Approach and Test Results

The interoperability compliance test included feature and serviceability testing. The feature testing focused on establishing audio calls between Aiphone IX-RS-BT Audio Door Station, Avaya SIP and H.323 telephones, and the PSTN, and exercising basic telephony features, such as hold/resume, mute/unmute, transfer, conference, call forwarding, and call coverage from an Avaya IP endpoint. Additional telephony features, such as call forward and call coverage, were also verified.

The serviceability testing focused on verifying that the Aiphone IX-RS-BT Audio Door Station comes back into service after re-connecting the Ethernet cable.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

Avaya recommends our customers implement Avaya solutions using appropriate security and encryption capabilities enabled by our products. The testing referenced in this DevConnect Application Note included the enablement of supported encryption capabilities in the Avaya products. Readers should consult the appropriate Avaya product documentation for further information regarding security and encryption capabilities supported by those Avaya products.

Support for these security and encryption capabilities in any non-Avaya solution component is the responsibility of each individual vendor. Readers should consult the appropriate vendor-supplied product documentation for more information regarding those products.

For the testing associated with this Application Note, the interface between Avaya systems and Aiphone IX-RS-BT Audio Door Station did not include use of any specific encryption features as requested by Aiphone.

### 2.1. Interoperability Compliance Testing

Interoperability compliance testing covered the following features and functionality:

- SIP registration of IX-RS-BT with IP Office.
- Audio calls between IX-RS-BT and Avaya SIP and H.323 deskphones with Direct IP Media (Shuffling) enabled and disabled.
- Audio calls between IX-RS-BT and the PSTN.
- G.711 codec support.
- UDP transport protocol.
- IX-RS-BT placing, answering, and terminating calls.
- DTMF tones recognition via input of Door Release Authorization Authentication Key.
- Basic telephony features, including hold/resume, mute/unmute, transfer, and 3-way conference, initiated from an Avaya IP endpoint.
- Proper system recovery after re-establishing IP connectivity to IX-RS-BT.

### 2.2. Test Results

• All test cases executed passed successfully.

### 2.3. Support

For technical support of Aiphone IX Series 2 Audio Door Stations, contact Aiphone Technical Support via phone or website.

- Phone: +1 (800) 692-0200
- Web: <u>https://www.aiphone.com/support/technical-support</u>

# 3. Reference Configuration

**Figure** 1 illustrates a sample configuration with an Avaya SIP-based network. Aiphone IX-RS-BT Audio Door Station registered to either IP Office Server Edition or IP Office 500 V2 Expansion System (not simultaneously).

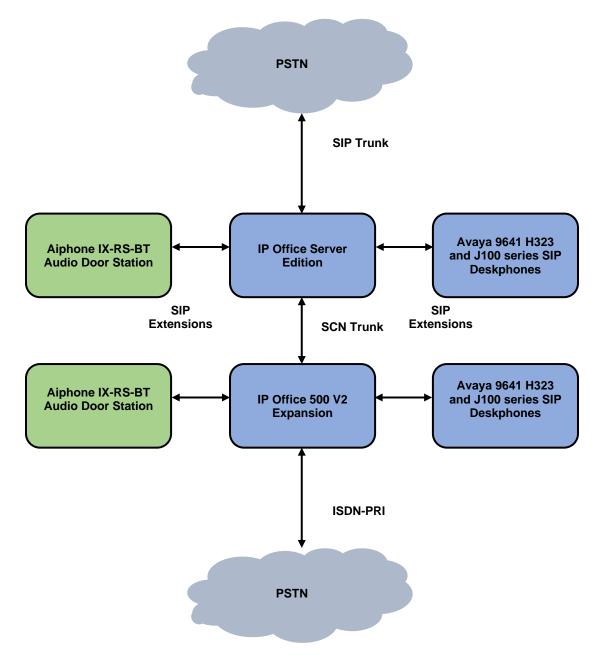


Figure 1: Avaya SIP Telephony Network with Aiphone IX-RS-BT Audio Door Station

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# 4. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment/Software	Release/Version
Avaya IP Office Server Edition	11.1.2.4.0 build 18 (FP2 SP4)
Avaya IP Office 500V2 Expansion System	11.1.2.4.0 build 18 (FP2 SP4)
Avaya 96x1 Series IP Deskphones	6.8.5.2.3 (H.323)
Avaya J100 Series IP Phones	4.0.10.3.2 (SIP)
Aiphone IX-RS-BT Audio Door Station	7.00

**Note:** Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 and when deployed with IP Office Server Edition in all configurations.

# 5. Configure Avaya IP Office Server Edition

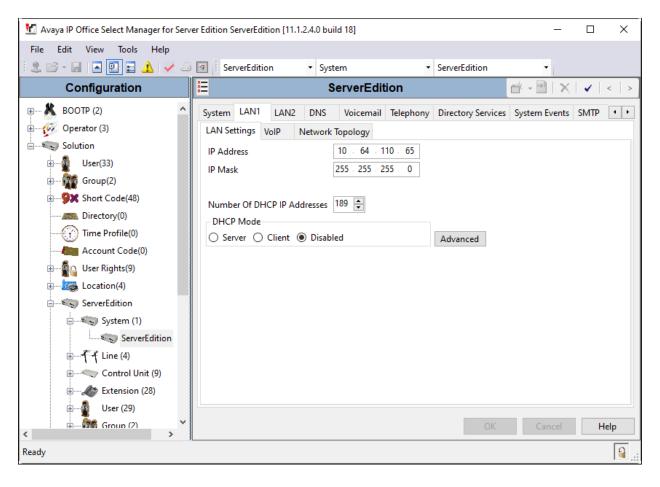
This section provides the procedures for configuring Avaya IP Office Server Edition. The procedures include the following areas:

- Obtain LAN IP Address
- Administer SIP Registrar
- Administer SIP Extension for IX-RS-BT
- Administer SIP User for IX-RS-BT

**Note:** This section covers the configuration of Avaya IP Office Server Edition, but the configuration is the same for Avaya IP Office 500 V2 Expansion System.

### 5.1. Obtain LAN IP Address

From a PC running the IP Office Manager application, on the configuration tree in the left pane, select **System** to display the **System** screen for the IP Office Server Edition in the right pane. Select the **LAN1** tab, followed by the **LAN Settings** sub-tab in the right pane. Make a note of the **IP Address**, which will be used later to configure IX-RS-BT.



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### 5.2. Administer SIP Registrar

Select the **VoIP** sub-tab. Ensure that **SIP Registrar Enable** is checked and enter a valid **SIP Domain Name**. In the compliance testing, the **SIP Domain Name** field was set to *avaya.com*. UDP transport protocol was enabled for the **Layer 4 Protocol**, which was used by IX-RS-BT.

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User (29)	<				>	
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### 5.3. Administer SIP Extension for IX-RS-BT

From the configuration tree in the left pane, right-click on **Extension** and select **New**  $\rightarrow$  **SIP** from the pop-up list to add a new SIP extension. Enter the desired extension for the **Base Extension** field as shown below. In this example, IX-RS-BT was assigned extension 72004. This is the extension that IX-RS-BT will use to register with IP Office Server Edition.

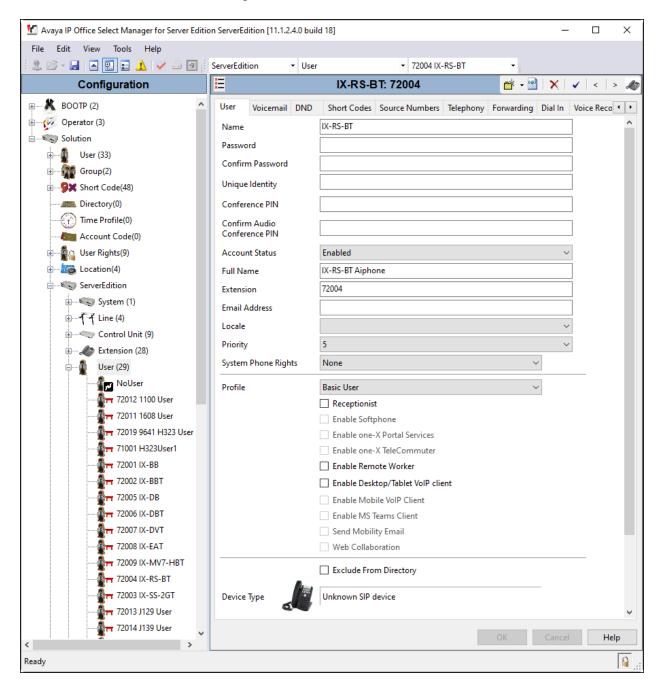
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	Fallback As Remote Worker	Auto					
11216 70008							
11205 70009	Module	0					
11206 70010	Port	0					
11226 71001							
11217 72001	Disable Speakerphone						
11218 72002							
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Select the **VoIP** tab and retain the default values. During the compliance test, IX RS-BT was tested with *G.711 ULaw* codec. Enable **Allow Direct Media Path** so that audio/RTP flows directly between two SIP endpoints without using media resources in Avaya IP Office Server Edition. **Media Security** was *disabled* for IX-RS-BT.

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11201 70002			
11202 70003		<<<	
11203 70004		Į,	
		>>>	
	Reserve License	None	~
11206 70010	Fax Transport Support	None	~
11226 71001	DTMF Support	RFC2833/RFC4733	~
11217 72001	3rd Party Auto Answer	None ~	
<b>*</b> 11218 72002 <b>*</b> 11219 72003	Media Security	Disabled $\checkmark$	
11220 72004			
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### 5.4. Administer SIP User for IX-RS-BT

From the configuration tree in the left pane, right-click on **User** and select **New** from the pop-up list. Enter desired values for the **Name** and **Full Name** fields. For the **Extension** field, enter the SIP extension from **Section 5.3** (e.g., 72004).



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User Rights(9)	User Voicemail DN	D Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recordi	4 +
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⊕€ 😓 System (1)	Voicemail Email						Voicemail Ring	
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Select the Voicemail tab and disable voicemail for IX-RS-BT

Select the **Telephony** tab followed by the **Call Settings** sub-tab. Note the settings below for the user.

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	Ringback Sequence	Default Ring	$\sim$	Busy On Held
🖃 🗤 🔮 User (29)	No Answer Time (sec)	System Default (15)	-	Off-hook Station
NoUser	Wrap-Up Time (sec)	2	-	
	Transfer Return Time (sec)	Off	-	
72011 1608 User	Call Cost Mark-Up	100		
72019 9641 H323 Usi	Advertise Callee State To Internal Calle	rs System Default (Off)	~	
71001 H323User1				
7200 IX-BB				
72005 IX-DB				
72006 IX-DBT				
72007 IX-DVT				
72009 IX-MV7-HBT	<			>
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Select the **Supervisor Settings** sub-tab and enter a desired **Login Code**. The **Login Code** is the password that will be used by IX-RS-BT to register with IP Office Server Edition.

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## 6. Configure Aiphone IX-RS-BT Audio Door Station

This section provides the procedure for configuring IX-RS-BT to provide SIP connectivity to IP Office. Configuration of IX-RS-BT is performed via Aiphone IX System web interface.

- Log into Aiphone IX System Web Interface
- Administer Station Information
- Administer SIP Parameters
- Administer Audio Settings
- Administer Call Settings

### 6.1. Log into Aiphone IX System Web Interface

Access the Aiphone IX System Web Interface by using the URL <u>https://<ip-</u> <u>address>/webset.cgi?login</u> in an Internet browser, where <ip-address> is the IX-RS-BT IP

address. Select language (not shown) and log in using the appropriate credentials.

AIPHONE IX System					
	Enter ID and password ID: Password: Login				
	Convright 2012 AIPHONE Co. Ltd. All rights reserved				

### 6.2. Administer Station Information

Navigate to **Station Information**  $\rightarrow$  **Identification** and set the **Number** to the IX-RS-BT SIP extension (e.g., 72004). Input an appropriate **Name**.

AIPHONE IX Syst	tem Setting Station Type: IX-RS-*T		- ⊯ Update
Station Information	▲	Station Informatio	n
Identification ID and Password Language			
<u>Time</u> Expanded System			
Network Settings	•Identification—		
IP Address DNS	Number •	72004	3-5 digits
SIP	Name	IX-RS-BT	1-24 alphanumeric characters(*1)
Audio	Location		1-24 alphanumeric characters(*1)
Packet Priority NTP		(*1)Certain characters may no	ot be displayed correctly on IX-MV, IX-MV7-* and IX-MV7-*T due to font type.

#### 6.3. Administer SIP Parameters

Navigate to **Network Settings**  $\rightarrow$  **SIP** from the left pane and configure the following parameters:

- **SIP Signaling Port:** Set to 5060.
  - **User Agent:** Enter desired value (e.g., *IX-RS-BT*).
  - **ID:** Set to SIP extension (e.g., 72004) from **Section 5.3**.
    - Enter SIP password from Section 5.4.
  - **IPv4 Address:** Set to signaling IP address of IP Office (e.g.,
- Port:

**Password:** 

•

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10.64.110.65). Set to 5060.

Click **Update** to save changes.

AIPHONE IX Syste	em Setting Station Type: IX-RS-*T		→ Update
Station Information	•SIP	Network Settings	
ID and Password Language Time Expanded System	SIP Connections	5060	1-65535
Network Settings	User Agent	IX-RS-BT	1-36 alphanumeric character
DNS SIP Audio Packet Priority	SIP Server SIP Compatibility Mode	Standard Mode	~
NTP Call Settings	Primary Server ID Password	72004	1-24 alphanumeric character 1-24 alphanumeric character
<u>Station Settings</u> <u>Called Stations (for Door)</u> <u>Call Origination</u>	IPv4 Address IPv6 Address	10.64.110.65	1.0.0.1-223.255.255.254 or h ::FF:0-FEFF:FFF:FFF:FFF
Incoming Call	Port+	5060	1-65535

### 6.4. Administer Audio Settings

Navigate to Network Settings  $\rightarrow$  Audio in the left pane and set Audio Codec to select *G.711* (*u-law*).

AIPHONE IX Syste Category: Handset Sub Station	em Setting Station Type: DX-RS-4T		→ Update
Station Information		Network Settings	
Identification ID and Password Language Time Expanded System	• Audio The "SIP Channel" RTP End Port should be greater than 21 The "ONVIF Transmit Channel" RTP End Port should be g Changing Audio Codec from G.711(µ-law) / G.711(A-law)	reater than 10 digits from the RTP Start Port.	711(A-law) will cause the station to restart after Update is clicked.
Network Settings IP Address DNS SIP Audio Packet Priority NTP	Audio Codec Audio RTP Transmission Interval [msec] RTP Idle Detection Time [sec]+ SIP Channel		1(A-law) OG.722 ng is ignored when transmitting to multiple stations (paging, etc.) ec
Call Settings Station Settings Called Stations (for Door) Call Origination Incomine Call	RTP Start Port + RTP End Port +	20000 1-65534 21000 1-65535	
Option Input / Relay Output Settings Option Input Relay Output	ONVIF Transmit Channel RTP Start Port • RTP End Port •	22000 1-65534 23000 1-65535	
Function Settings Paging Settings Email CGI SIF	<b>Audio Buffer</b> Packets Buffered at Audio Start Maximum Packets Buffered	1 V 3 V Maximum Packet Buffer mu	t be larger than Audio Start Buffer.

### 6.5. Administer Call Settings

Navigate to **Call Settings** in the left pane and set the **Call Button Function** to *Call, Answer Call, End Communication* in the **Station Information** section.

In the **Called Stations (for Door)** section, add an entry that specifies the number that should be dialed when the call button is pressed. Set the **Station Number** to the called number (e.g., 72015), set the **IPv4 Address** to the signaling IP address of IP Office (e.g., 10.64.110.65), and set **Station Type** to *VoIP Phone*. Only one VoIP phone may be specified.

AIPHONE IX Syste	em Setting				⇒ Update	
Category: Handset Sub Station	Station Type: IX-RS-*T					
Station Information			Call Settings			
Station Information						
Identification ID and Password						
Language					<ul> <li>Required Setting</li> </ul>	igs
Time						
Expanded System						
Network Settings	•Station Information					_
IP Address	Call Button Function	Call, Answer Call, End Comm		~		
DNS		Communication" disabled when using		•		
SIP	Cancer Can, End	Communication disabled when using	option input can:			
Audio Packet Priority						
NTP						
<u></u>	•Called Stations (for	Door) ———				_
Call Settings	· · ·					
Station Settings	Option Input #:	Group 01	~			
Called Stations (for Door)						
Call Origination	Station Manual and	where a subject of the basis of the basis	N			
Incoming Call		ust be 3-5 digits. (3-32 digits for VoIP P ).1-223.255.255.254 or hostname(1-64 a				
Option Input / Relay	IPv6 must be ::FF	0-FEFF:FFFF:FFFF:FFFF:FFFF:FFFF	FFFF:FFFF or hostname(1-64 alphanumer	ric characters).		
Output Settings		Server IP address for VoIP Phone, set o be "VoIP Phone" when calling via SIP s				
Option Input	U = Unicast, M =	Multicast				
Relay Output		K-DBT, IX-BA, IX-BB or IX-BBT must	be registered under Called Stations (Door	Sub Stations) to use Door Release while	in communication with IX-DA, i	iX-
Function Settings	or IX-BBT. IX-RS-* and IX-F	S-*T cannot place a call to IX-DA, IX-I	DB, IX-DBT, IX-BA, IX-BB or IX-BBT e	ven IX-DA, IX-DB, IX-DBT, IX-BA, IX	BB or IX-BBT is under Called S	stat
Paging Settings						
Email	#	Station Number	IPv4 Address	IPv6 Address	Station Type	
CGI	1	72015	10.64.110.65		VoIP Phone 🗸	
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Communication Audio Messages	3		<u> </u>		~	
Chime	4				<b></b>	

# 7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of IP Office and Aiphone IX-RS-BT Audio Door Station.

1. Verify that IX-RS-BT has successfully registered with with IP Office. Launch **IP Office** System Status and navigate to Extensions → *<SIP Extension>*, where *<SIP Extension>* is the IX-RS-BT extension. Verify that the Current State is *Idle* as shown below.

Avaya IP Office System	n Status - ServerEdition (10.64.110.65) - IP Office Linux PC 11.1.2.4.0 build 18 – – – > IP Office System Status
Help Snapshot LogOff	Exit About
I System I 🎒 Alarms (2)	Extension Status
Extensions (7)	Extension Number: 72004
72001	IP address: 10.64, 10.78
72002 72003	Standard Location: None
72003	Registrar: Primary
72015	Telephone Type: Unknown SIP Device
72018	User-Agent SIP header: IX-RS-BT
72019	Media Stream: RTP
Trunks (4) Active Calls	Layer 4 Protocol: UDP
Resources	Current User Extension Number: 72004
Voicemail	Current User Name: IX-RS-BT
IP Networking	Forwarding: Off
Locations	Twinning: Off
	Do Not Disturb: Off
	Message Waiting: Off
	Phone Manager Type: None
	SIP Device Features: REFER, UPDATE
	License Reserved: No
	Last Date and Time License Allocated: 4/27/2023 1:07:09 PM
	DTMF Required: No
	Packet Loss Fraction: Connection Type:
	Jitter: Codec:
	Round Trip Delay: Remote Media Address:
	Call Ref Current State Time in State Calling Number Direction Other Party on Call or Called Number
	Idle 00:01:52
	Trace         Trace All         Pause         Ping         Call Details         Print         Save As
	2:30:52 PM Online

2. Establish inbound and outbound calls to IX-RS-BT with Avaya SIP and/or Avaya H.323 endpoints and verify two-way audio.

## 8. Conclusion

These Application Notes describe the administration steps required to integrate Aiphone IX Series 2 Audio Door Stations (IX-RS-BT) with Avaya IP Office Server Edition. The Aiphone IX-RS-BT Audio Door Station successfully registered with IP Office as a SIP endpoint and audio calls were verified. All test cases executed passed with no observations noted.

# 9. References

This section references the Avaya and Aiphone documentation relevant to these Application Notes.

Avaya product documentation is available at <u>https://support.avaya.com</u>.

[1] Administering Avaya IP Office using Manager, Release 11.1, available at <u>http://support.avaya.com</u> as an HTML document.

Aiphone product documentation is available at https://www.aiphone.com.

[2] *Aiphone IX Door Stations Web Setting Manual*, Software version 6.00 or later, available from Aiphone.

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