



## Avaya Solution & Interoperability Test Lab

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# Application Notes for Aiphone IX Series Video Door Stations (IX-DA) R5.4 and Avaya Aura® Communication Manager and Avaya Aura® Session Manager R8.1 – Issue 1.0

## Abstract

These Application Notes describe the procedures for configuring Aiphone IX Series Video Door Stations (IX-DA) which was compliance tested with Avaya Aura® Communication Manager and Avaya Aura® Session Manager.

The overall objective of the interoperability compliance testing was to verify Aiphone IX Series Video Door Stations (IX-DA) functionalities in an environment comprised of Avaya Aura® and various Avaya endpoints. Aiphone IX Series Video Door Stations are SIP based door phones.

Readers should pay attention to **Section 2**, in particular the scope of testing as outlined in **Section 2.1** as well as any 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 DevConnect Program at the Avaya Solution and Interoperability Test Lab.

# 1. Introduction

These Application Notes describe the configuration steps required for Aiphone IX Series Video Door Stations to interoperate with Avaya Aura® Communication Manager and Avaya Aura® Session Manager. During the compliance testing, Aiphone IX-DA was used.

The Aiphone IX Series Video Door Stations (IX-DA) are part of Aiphone IX Series Door Stations. The Video Door Stations, IX-DA, act as SIP phones when connected to Avaya Aura®. The Video Door Stations come in both surface mount and flush mount varieties. All door stations have dry contacts that can be used to release doors when activated by another intercom or phone. The dry contacts can also be used to trigger external signaling devices, such as strobes.

During the compliance test, Aiphone IX-DA registered as a 3<sup>rd</sup> party SIP phone using UDP to Avaya Aura® Session Manager.

# 2. General Test Approach and Test Results

The focus of this interoperability compliance testing was to verify that the Aiphone IX-DA can register as a SIP endpoint on Session Manager, and is able to originate and receive audio and video calls to and from the Avaya Aura® system.

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 these DevConnect Application Notes 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 these Application Notes, the interface between Avaya systems and Aiphone did not utilize secure capabilities.

## 2.1. Interoperability Compliance Testing

The general test approach was to place calls to and from, Aiphone IX-DA, and exercise basic telephone operations. The main objectives were to verify the following:

- Registration
- Calls to Avaya SIP Audio endpoints
- Calls to Avaya H.323 Audio endpoints
- Calls to Avaya Digital & Analog endpoints
- Calls to PSTN via SIP Trunks
- Call termination (origination/destination)
- Serviceability

## 2.2. Test Results

The test objectives were verified, and the features tested worked as expected.

## 2.3. Support

For technical support on Aiphone IX-DA, please contact Aiphone via the following:

### Japan

- Web: <https://www.aiphone.co.jp/>
- Phone: 052-228-9961

### USA, Canada

- Web: <https://www.aiphone.com/home>
- Email: tech@aiphone.com
- Phone: 800-692-0200

### France

- Web: <https://www.aiphone.fr/>
- Phone: 01 69 11 46 00

### Australia, New Zealand

- Web: <https://www.aiphone.com.au/>
- Phone: (02)80364507

### Singapore

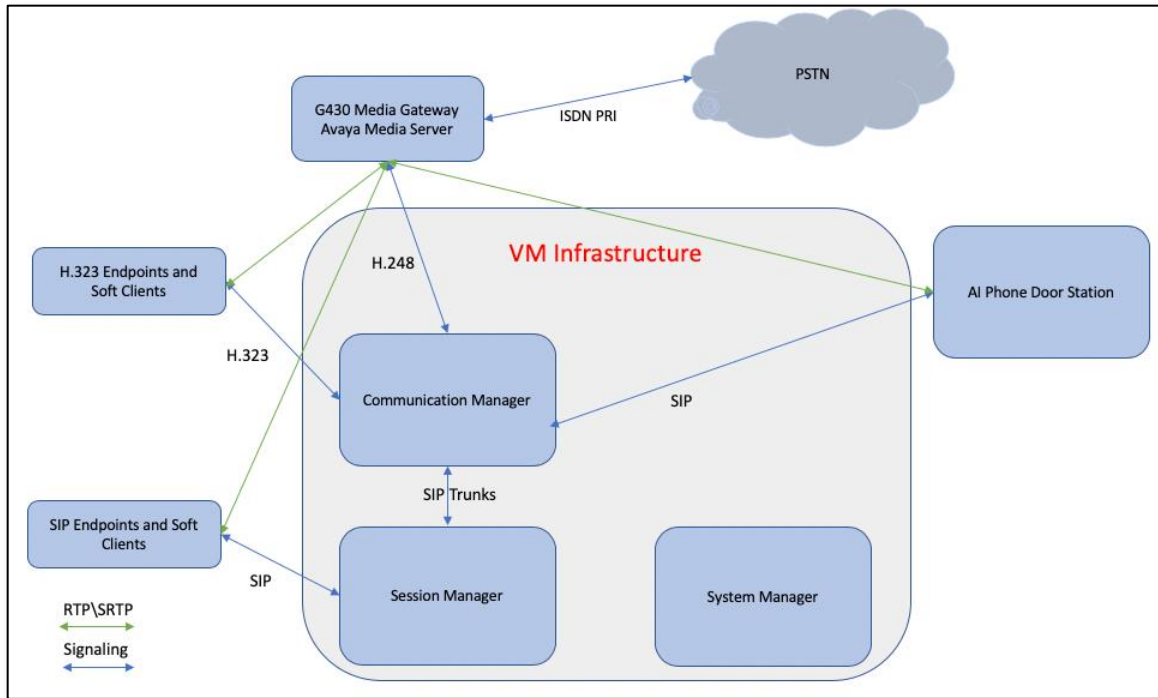
- Web: <http://www.aiphone.com.sg/>
- Email: admin@aiphone.com.sg
- Phone: 6534-1135

### United Kingdom

- Web: <https://www.aiphone.co.uk/>
- Phone: 020-7507-6250

### 3. Reference Configuration

**Figure 1** illustrates a sample configuration consisting of Avaya Aura® components and Aiphone IX-DA.



**Figure 1: Test Configuration of Aiphone IX-DA with Avaya Aura®**

## 4. Equipment and Software Validated

The following equipment and software were used for the test configuration.

Equipment	Software/Firmware
Avaya Aura® Communication Manager	8.1.1.0.0.890.25763 (FP1)
Avaya Aura® Session Manager	8.1.1.0.811021
Avaya Aura® System Manager	8.1.1.0.0310782 (FP1)
Avaya 9600 Series H.323 IP Deskphones	6.8304
Avaya J129 SIP Phone	4.0.4.0.10
Avaya IX Workspace	3.7.0.102.3
Avaya H175 Collaboration Station	1.0.2.3
Avaya Vantage K175 Phone	3.5.0
Avaya 9504 Digital Phone	0.55
Avaya 6210 Analogue Telephone	-
Aiphone IX Series Video Door Station IX-DA	5.40

## 5. Configure Avaya Aura® Communication Manager

This section provides the procedures for configuring Communication Manager. The procedures include the following areas:

- Verify System Capacity (License)
- Define Dial Plan

These steps were performed using an SSH Terminal session.

### 5.1. Verify System Capacity (License)

The license file installed on the system controls these attributes. If a required feature is not enabled or there is insufficient capacity, contact an authorized Avaya sales representative. Use the **display system-parameters customer-options** command to determine these values. On **Page 1**, verify that the **Maximum Off-PBX Telephones** allowed in the system is sufficient. One OPS station is required per SIP device.

```
display system-parameters customer-options                               Page 1 of 12
                                OPTIONAL FEATURES

G3 Version: V18                                                         Software Package: Enterprise
Location: 2                                                             System ID (SID): 1
Platform: 28                                                            Module ID (MID): 1

                                USED
Platform Maximum Ports: 48000 73
Maximum Stations: 36000 48
Maximum XMOBILE Stations: 36000 0
Maximum Off-PBX Telephones - EC500: 41000 0
Maximum Off-PBX Telephones - OPS: 41000 27
Maximum Off-PBX Telephones - PBFMC: 41000 0
Maximum Off-PBX Telephones - PVFMC: 41000 0
Maximum Off-PBX Telephones - SCCAN: 0 0
Maximum Survivable Processors: 313 0

(NOTE: You must logoff & login to effect the permission changes.)
```

On **Page 2** of the **system-parameters customer-options form**, verify that the number of **Maximum Administered SIP Trunks** supported by the system is sufficient.

display system-parameters customer-options		Page	2 of 12
OPTIONAL FEATURES			
IP PORT CAPACITIES		USED	
Maximum Administered H.323 Trunks:		12000	0
Maximum Concurrently Registered IP Stations:		2400	3
Maximum Administered Remote Office Trunks:		12000	0
Max Concurrently Registered Remote Office Stations:		2400	0
Maximum Concurrently Registered IP eCons:		128	0
Max Concur Reg Unauthenticated H.323 Stations:		100	0
Maximum Video Capable Stations:		36000	0
Maximum Video Capable IP Softphones:		2400	16
<b>Maximum Administered SIP Trunks:</b>		<b>12000</b>	<b>10</b>
Max Administered Ad-hoc Video Conferencing Ports:		12000	0
Max Number of DS1 Boards with Echo Cancellation:		688	0

## 5.2. Define the Dial Plan

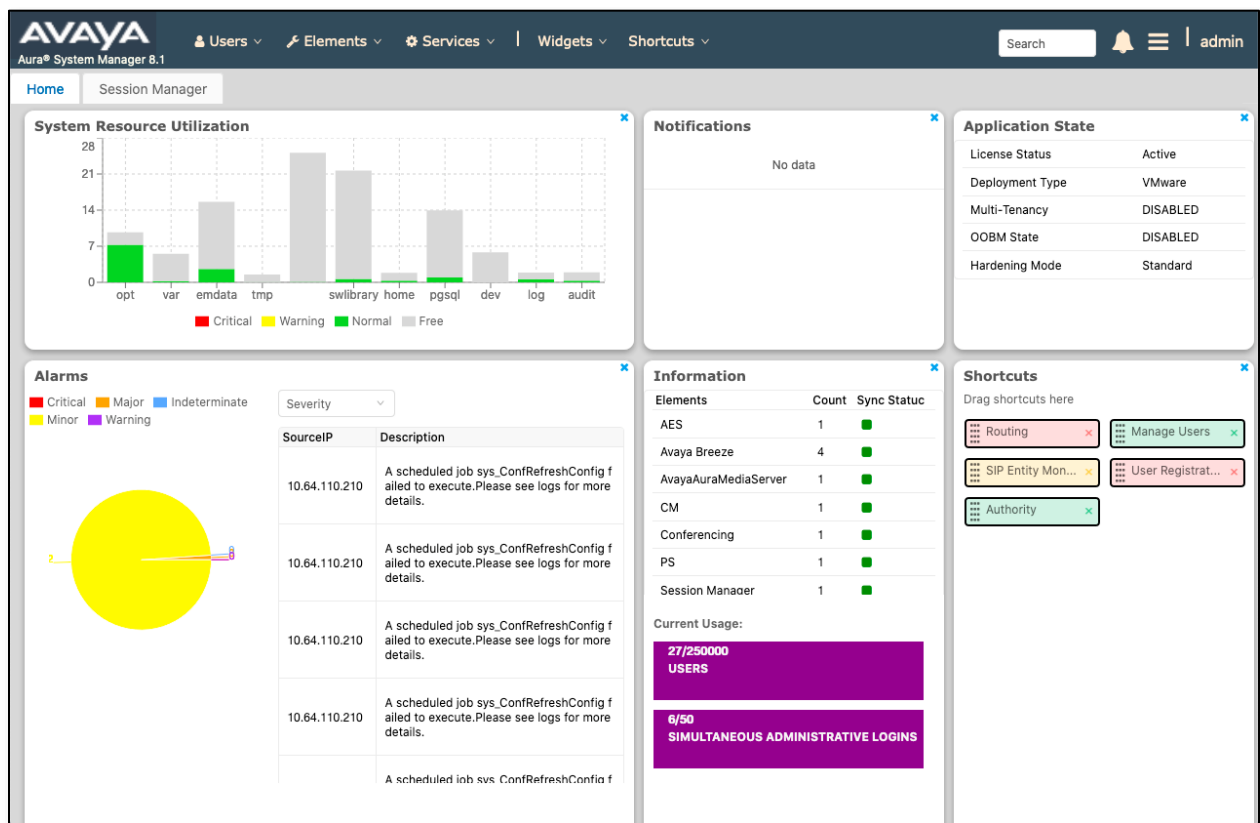
Use the **change dialplan analysis** command to define the dial plan used in the system. This includes all telephone extensions. In the sample configuration, telephone extensions are 5 digits long and begin with 7.

change dialplan analysis						Page 1 of 12					
DIAL PLAN ANALYSIS TABLE											
Location: all						Percent Full: 1					
Dialed String			Total Call Length Type			Dialed String			Total Call Length Type		
<u>1</u>			<u>3</u> <u>dac</u>								
<u>2</u>			<u>5</u> <u>ext</u>								
<u>3</u>			<u>5</u> <u>ext</u>								
<u>4</u>			<u>5</u> <u>aar</u>								
<b><u>7</u></b>			<b><u>5</u></b> <b><u>ext</u></b>								
<u>8</u>			<u>1</u> <u>fac</u>								
<u>9</u>			<u>1</u> <u>fac</u>								
<u>*</u>			<u>3</u> <u>fac</u>								
<u>#</u>			<u>3</u> <u>fac</u>								

## 6. Configure Avaya Aura® Session Manager

This section describes aspects of the Session Manager configuration required for interoperating with Aiphone IX-DA. It is assumed that the Domains, Locations, SIP entities, Entity Links, Routing Policies, Dial Patterns and Application Sequences have been configured where appropriate for Communication Manager and Session Manager.

Session Manager is managed via System Manager. Using a web browser, access **https://<ip-addr of System Manager>/SMGR**. In the **Log On** screen, enter appropriate **User ID** and **Password** and click the **Log On** button.






## 6.1. Verify Session Manager Listen Port for SIP Endpoint Registration

Each Session Manager Entity must be configured so that SIP endpoint can register to it using UDP, TCP, or TLS. From the web interface click **Routing** → **SIP Entities** (not shown) and select the Session Manager entity used for registration. In the compliance test, **TCP** and **UDP** listen ports were used.

**Listen Ports**

AddRemove

4 Items 

Filter: [Enable](#)

<input type="checkbox"/>	Listen Ports	Protocol	Default Domain	Endpoint	Notes
<input type="checkbox"/>	5060	TCP	avaya.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5060	UDP	avaya.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5061	TLS	avaya.com	<input checked="" type="checkbox"/>	<input type="text"/>
<input type="checkbox"/>	5062	TLS	avaya.com	<input type="checkbox"/>	<input type="text"/>

Select : [All](#), [None](#)

## 6.2. Add a SIP User

A SIP user must be added for Aiphone IX-DA. Click **User Management** → **Manage Users** → **New** (not shown) and configure the following in the **Identity** tab.

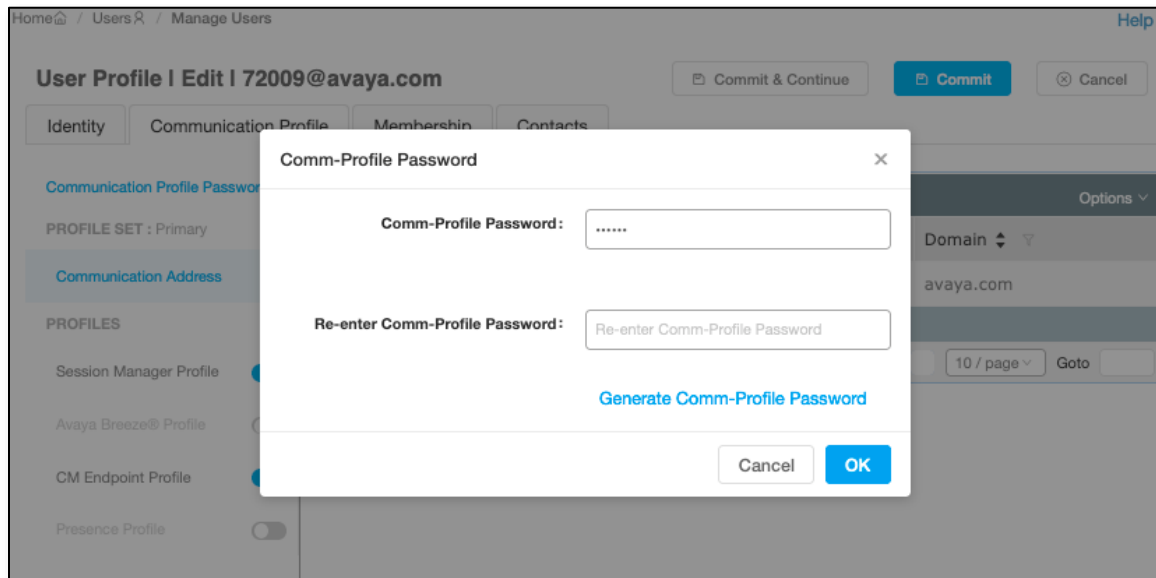
- **First Name** and **Last Name** - Enter an identifying name
- **Login Name** Enter the extension number followed by the domain, in this case **72009@avaya.com**

The screenshot shows the 'User Profile | Edit | 72009@avaya.com' interface. At the top, there are navigation links: Home, Users, and Manage Users. A 'Help ?' link is in the top right. Below the title, there are three buttons: 'Commit & Continue', 'Commit' (highlighted in blue), and 'Cancel'. The 'Identity' tab is selected, with other tabs being 'Communication Profile', 'Membership', and 'Contacts'. On the left, a sidebar shows 'Basic Info' (selected), 'Address', and 'Localized Name'. The main form area contains the following fields:

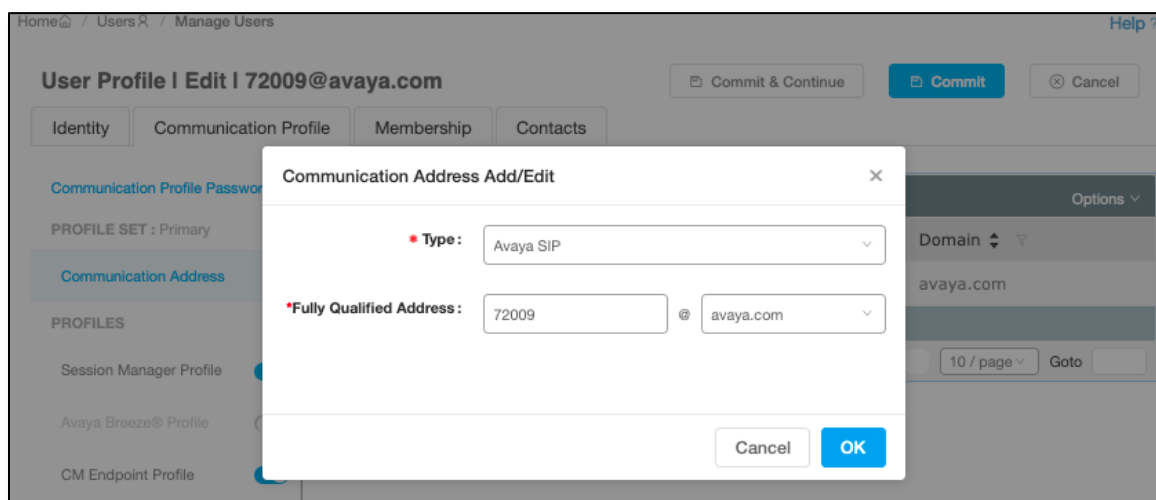
- User Provisioning Rule:** A dropdown menu.
- Last Name:** DA
- Last Name (in Latin alphabet characters):** DA
- First Name:** IX
- First Name (in Latin alphabet characters):** IX
- Login Name:** 72009@avaya.com
- Middle Name:** Middle Name Of User
- Description:** Description Of User
- Email Address:** Email Address Of User
- Password:** (empty)
- User Type:** Basic (dropdown)
- Confirm Password:** (empty)
- Localized Display Name:** IX-DA
- Endpoint Display Name:** IX-DA
- Title Of User:** Title Of User
- Language Preference:** English (United States) (dropdown)
- Time Zone:** (empty dropdown)
- Employee ID:** Employee Id Of User
- Department:** Department Of User
- Company:** Company Of User

Note in this and subsequent steps, press **Commit & Continue** after making entries or selections.

Click the **Communication Profile** tab and in the **Communication Profile Password** and **Confirm Password** fields, enter a numeric password. This will be used to register the device during login.



In the **Communication Address** section, for **Type** select **Avaya SIP** from the drop-down list. In the **Fully Qualified Address** field enter the extension number as required and select the appropriate **Domain** from the drop-down list. Click **OK** when done.



Click on the **Session Manager Profile** link and configure the **Primary Session Manager**, **Max Simultaneous Devices**, **Origination Application Sequence**, **Termination Application Sequence** and **Home Location**, from the respective drop-down lists.

Communication Profile Password

PROFILE SET : Primary

Communication Address

PROFILES

Session Manager Profile

Avaya Breeze® Profile

CM Endpoint Profile

Presence Profile

SIP Registration

\* Primary Session Manager:

sm81

Secondary Session Manager:

Start typing...

Survivability Server:

Start typing...

Max. Simultaneous Devices:

2

Block New Registration When Maximum

Application Sequences

Origination Sequence:

cm81

Termination Sequence:

cm81

Emergency Calling Application Sequences

Emergency Calling Origination Sequence:

Select

Emergency Calling Termination Sequence:

Select

Call Routing Settings

\* Home Location:

DevConnect

RAB; Reviewed:  
SPOC 9/30/2020

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12 of 21  
AiPIXDA\_Aura81

Click the **CM Endpoint Profile** link and configure as follows:

- **System** - Select the relevant Communication Manager SIP Entity from the drop-down list
- **Profile Type** - Select **Endpoint** from the drop-down list
- **Extension** - Enter the required extension number, in this case **72009**
- **Template** - Select **J129\_DEFAULT\_CM\_8\_1** from the drop-down list
- **Port** - The “IP” is auto filled out by the system

Click on **Endpoint Editor** in the Extension field to edit Communication Manager settings if desired.

The screenshot displays the 'User Profile | Edit | 72009@avaya.com' interface. The 'Communication Profile' tab is active, showing a left sidebar with profile management options and a main area with configuration fields. The 'CM Endpoint Profile' is selected in the sidebar. The main configuration area includes fields for System (cm81), Profile Type (Endpoint), Extension (72009), Set Type (J129), Port (S000088), and Preferred Handle (72009@avaya.com). It also features checkboxes for 'Use Existing Endpoints', 'Calculate Route Pattern', 'Delete on Unassign from User or on Delete', and 'Override Endpoint Name and Localized Name'. A 'Security Code' field is present with the placeholder 'Enter Security Code'. The 'SIP URI' is set to 'Select'. The 'Enhanced Callr-Info Display for 1-line' checkbox is unchecked. The 'Commit' button is highlighted in blue.

**User Profile | Edit | 72009@avaya.com**

Commit & Continue Commit Cancel

Identity Communication Profile Membership Contacts

Communication Profile Password

PROFILE SET : Primary

Communication Address

PROFILES

Session Manager Profile

Avaya Breeze® Profile

CM Endpoint Profile

Presence Profile

\* System: cm81

\* Profile Type: Endpoint

Use Existing Endpoints: ☐

\* Extension: 72009

Template: Start typing...

\* Set Type: J129

Security Code: Enter Security Code

Port: S000088

Voice Mail Number:

Preferred Handle: 72009@avaya.com

Sip Trunk: asr

Calculate Route Pattern: ☐

SIP URI: Select

Enhanced Callr-Info Display for 1-line: ☐

Delete on Unassign from User or on Delete: ☒

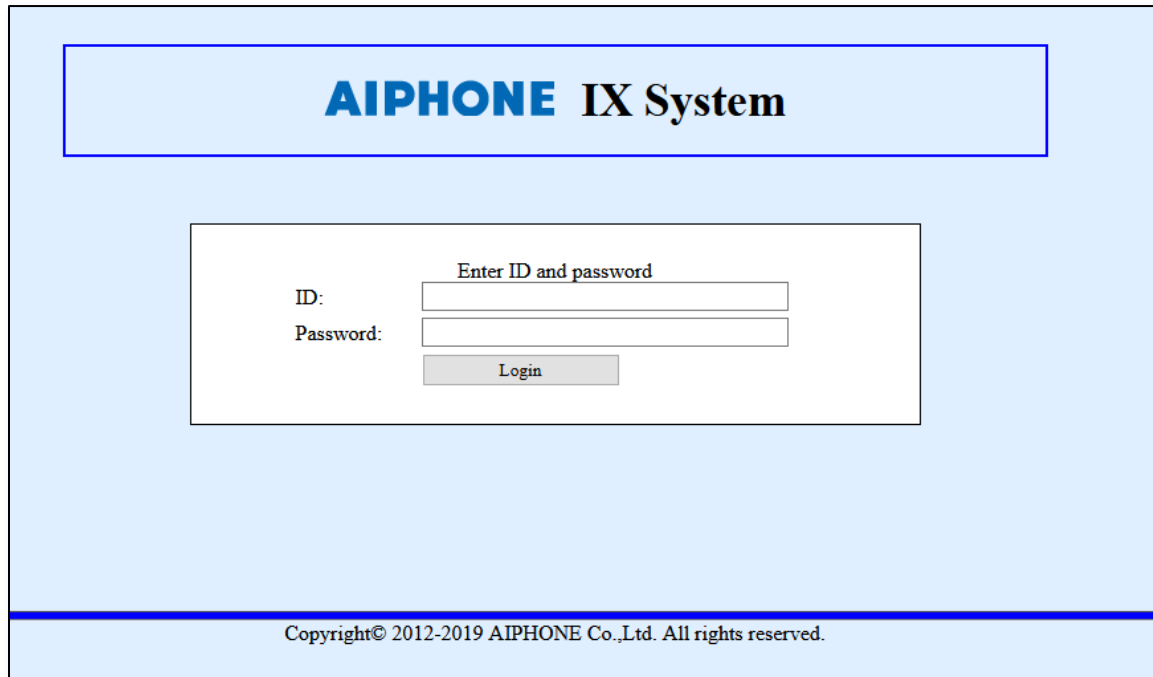
Override Endpoint Name and Localized Name: ☒

Allow H.323 and SIP Endpoint Dual Registration: ☐

## 7. Configure Aiphone IX Series Video Door Station

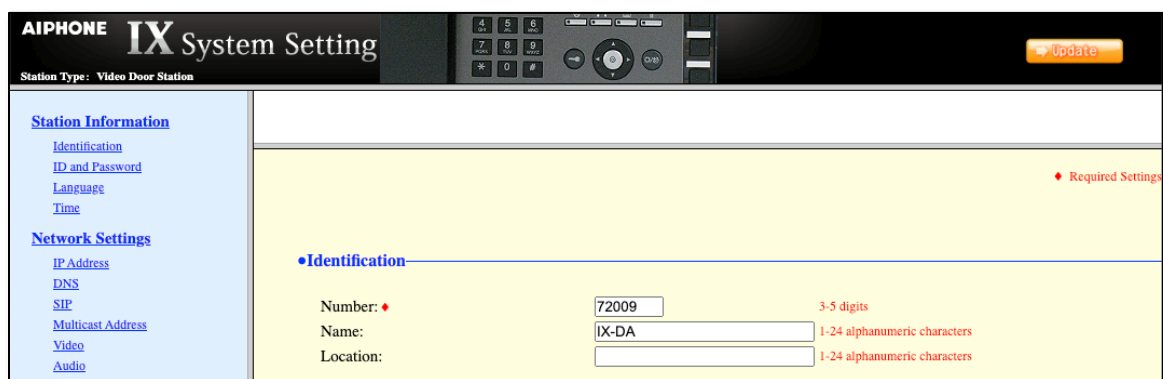
This section provides steps to configure Aiphone IX-DA.

To configure Aiphone IX-DA, using a web browser, navigate to <https://<IP Address of IX-DA>/webset.cgi?login> and log in using appropriate credentials.



The login screen for the Aiphone IX System. It features a light blue background. At the top, a white box contains the text "AIPHONE IX System" in blue and black. Below this, a white box contains the login form. The form has two input fields: "ID:" and "Password:". Above the "ID:" field is a placeholder text "Enter ID and password". Below the "Password:" field is a "Login" button. At the bottom of the page, a dark blue footer contains the text "Copyright© 2012-2019 AIPHONE Co.,Ltd. All rights reserved."

Once logged in, for the **Number** field, type in the SIP extension that is being configured (from **Section 6.2**), and a desired **Name**. Select **Update** to save changes.



The Aiphone IX System Setting page. The top header shows "AIPHONE IX System Setting" and "Station Type: Video Door Station". A navigation menu on the left lists "Station Information" (Identification, ID and Password, Language, Time) and "Network Settings" (IP Address, DNS, SIP, Multicast Address, Video, Audio). The main content area is titled "Identification" and contains three fields: "Number:" with a value of "72009" (3-5 digits), "Name:" with a value of "IX-DA" (1-24 alphanumeric characters), and "Location:" (1-24 alphanumeric characters). A red "Required Settings" indicator is visible. An "Update" button is in the top right corner.

From the left, select **Network Settings** → **SIP** and configure as follows:

- **SIP Signaling Port:** Set to **5060**.
- **User Agent:** Type in a desired value.
- **ID:** SIP Extension number from **Section 6.2**.
- **Password:** SIP Extension password from **Section 6.2**.
- **IPv4 Address:** LAN IP Address of Session Manager.
- **Port:** Set to **5060**.

Once done, select **Update** to save changes.

The screenshot displays the 'AIPHONE IX System Setting' web interface. The top header includes the product name and a navigation bar with a 'Station Type: Video Door Station' indicator and an 'Update' button. A left sidebar contains a tree menu with categories like 'Station Information', 'Network Settings', 'System Information', and 'Contact / Audio Output Settings'. The main content area is titled 'SIP' and is divided into two sections: 'SIP Connections' and 'SIP Server'. The 'SIP Connections' section contains fields for 'SIP Signaling Port' (set to 5060) and 'User Agent' (set to IX-DA). The 'SIP Server' section is further divided into a 'Primary Server' with fields for 'ID' (72009), 'Password' (masked), 'IPv4 Address' (10.64.110.212), 'IPv6 Address' (empty), and 'Port' (5060). Each field has a corresponding validation message on the right, such as '1-65535' for the port and '1-24 alphanumeric characters' for the ID and password.

Field	Value	Validation
SIP Signaling Port	5060	1-65535
User Agent	IX-DA	1-36 alphanumeric characters
<b>SIP Server - Primary Server</b>		
ID	72009	1-24 alphanumeric characters
Password	*****	1-24 alphanumeric characters
IPv4 Address	10.64.110.212	1.0.0.0-223.255.255.255
IPv6 Address		::FF:0:FFFF:FFFF:FFFF:FFFF:FFFF:FFFF
Port	5060	1-65535

From the left, select **Call Settings** → **Called Stations** and configure as follows:  
The numbers configured here will be dialed when the button on the IX-DA is pressed.

- **Station Number:** Type in an extension number that will be called for a given line.
- **IPv4:** Type in the LAN IP Address for Session Manager.

Select **Update** to save changes.

The screenshot shows the 'AIPHONE IX System Setting' web interface. The 'Station Type' is 'Audio Only Door Station'. The left sidebar contains links for 'Station Information' (Identification, ID and Password, Language, Time), 'Network Settings' (IP Address, DNS, SIP, Audio, Packet Priority, NTP), and 'System Information'. The main content area is titled 'Call Settings' and shows 'Called Stations' configuration. It includes a 'Call Button Assignment' table with two rows. Row 1 has 'Station Number' 70101 and 'IPv4 Address' 10.64.110.212. Row 2 is empty. The 'IPv6 Address' field is also empty. An 'Update' button is in the top right corner.

	Number 3-32 digits	IPv4 Address 1.0.0.0-223.255.255.255	IPv6 Address 2000::0- 3FFF:FFF:FFF:FFF:FFF:FFF:FFF:FFF or FD00::0- FDFE:FFF:FFF:FFF:FFF:FFF:FFF:FFF:FFF
1	70101	10.64.110.212	
2			

On the left, select **Function Settings** → **Contact Input Call** and set **Station Number** for Group **D01** to **000**. At the bottom of page, set **Priority** to **Urgent** for **Door Station Call Group Assignment** (not shown).

The screenshot shows the 'AIPHONE IX System Setting' web interface. The 'Station Type' is 'Audio Only Door Station'. The left sidebar contains links for 'Station Information' (Identification, ID and Password, Language, Time), 'Network Settings' (IP Address, DNS, SIP, Audio, Packet Priority, NTP), 'System Information' (Custom Sound Registry), and 'Contact / Audio Output Settings' (Contact Input). The main content area is titled 'Function Settings' and shows 'Contact Input Call' configuration. It includes a 'Group List' with links for Group D01 through Group D09. Below the group list, there is a table for '[Group D01]' with two rows. Row 1 has 'Station Number' 000 and 'IPv4 Address' 10.64.110.212. Row 2 is empty. The 'IPv6 Address' field is also empty. A 'Return to Top' link is above the table. An 'Update' button is in the top right corner.

	Station Number 3-32 digits	IPv4 Address 1.0.0.0-223.255.255.255	IPv6 Address 2000::0- 3FFF:FFF:FFF:FFF:FFF:FFF:FFF:FFF or FD00::0- FDFE:FFF:FFF:FFF:FFF:FFF:FFF:FFF:FFF
1	000	10.64.110.212	
2			



## 8. Verification Steps

The following steps may be used to verify the configuration:

- In the System Manager web interface, navigate to Elements → Session Manager → System Status → User Registrations to confirm successful registration.

**User Registrations**

Select rows to send notifications to devices. Click on Details column for complete registration status.

View: Default Export Force Unregister AST Device Notifications: Reboot Reload Failback As of 11:37 AM

22 Items Show 15

Details	Address	First Name	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Registered
										Prim Sec Surv
<input checked="" type="checkbox"/> - Show	72009@avaya.com	IX	DA	---	192.168.4.133	<input type="checkbox"/>	<input type="checkbox"/>	1/2	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	SIP	Station 2	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	Workspaces	Elite Admin 1	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	70104@avaya.com	SIP	Station 4	---	192.168.4.142	<input type="checkbox"/>	<input type="checkbox"/>	1/3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (AC) <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	Workspaces	Elite Agent 1	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	70105@avaya.com	SIP	Station 5	---	192.168.5.4	<input type="checkbox"/>	<input type="checkbox"/>	1/3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> (AC) <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	IX	SSA	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/2	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	Workspaces	Elite Agent 2	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	72000@avaya.com	IX	MV7	---	192.168.4.131	<input type="checkbox"/>	<input type="checkbox"/>	1/2	<input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	SIP	Station 3	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/10	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	IX	RS	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/2	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	IX	SSG2G	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/2	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	IX	DV	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/2	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	User 1	AudioCodes	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/10	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> - Show	---	Workspaces Elite	Agent 0	---	---	<input type="checkbox"/>	<input type="checkbox"/>	0/1	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Select: All, None

Place a call from Aiphone IX-DA to an Avaya endpoint. The state of the call be viewed on Communication Manager using the **status trunk** command in a SAT Terminal session:

```
status trunk 1
```

### TRUNK GROUP STATUS

Member	Port	Service State	Mtce	Connected Ports
Busy				
0001/0001	T000001	in-service/active	no	T000002
0001/0002	T000002	in-service/active	no	T000001
0001/0003	T000003	in-service/idle	no	
0001/0004	T000004	in-service/idle	no	

To view the status of the endpoints connected to the SIP Trunk, and codecs in use, use **status trunk 1/0001** where /0001 is a trunk port connected to the call.

```
status trunk 1/0001
```

Page 4 of 4

### SRC PORT TO DEST PORT TALKPATH

```
src port: T000001
T000007:TX:192.168.4.130:40750/g711u/20ms
001V062:RX:10.64.50.54:2054/g711u/20ms:TX:ctxID:542
001V061:RX:ctxID:542:TX:10.64.50.54:2056/g711u/20ms
T000001:RX:192.168.4.133:20000/g711u/20ms
```

## 9. Conclusion

Aiphone IX-DA was compliance tested with Avaya Aura®. Aiphone IX-DA functioned properly for feature and serviceability.

## 10. Additional References

Avaya product documentation can be found at: <http://support.avaya.com>

Documentation related to Aiphone IX-DA can be found at:

Japan: <https://www.aiphone.co.jp/products/business/ix/>

USA, Canada: <https://www.aiphone.com/home/products/ix-series>

France: <https://www.aiphone.fr/catalogue/interphonie-ip-protocole-sip-ix/>

Australia, New Zealand: <https://www.aiphone.com.au/product/ix/>

Singapore: <http://www.aiphone.com.sg/>

United Kingdom: [https://www.aiphone.co.uk/featured\\_item/ix2/](https://www.aiphone.co.uk/featured_item/ix2/)

## Appendix A

Following devices are based on the same firmware as IX-DA:

- IX-DA
- IX-DA-SQH
- IX-DA(1x)/(2x)/(3x)+(4x)
- IXDA
- IXDVF
- IXDVFBK
- IXDVFR
- IXDVFT
- IXDVFBM
- IXDVFTBM
- IXDVFCV
- IXDVFCVBM
- IXDVF2BM
- IXDVF4BM
- IXDVF6BM

The difference in each IX-DA devices is their mounting method:

- IX-DA
  - Surface mounting
- IX-DA-SQH
  - Flush mounting
- IX-DA(1x)/(2x)/(3x)+(4x)
  - (1x): the number of buttons(2-4). If the number is one, (1x) is empty.
  - (2x): the mounting method. S(Surface mounting) or F(Flush mounting)
  - (3x): the material of the panel. SS(Stainless Steel)
  - (4x): the type of the accessories. CPM(for UK standard card reader), CPROX(for HID card reader), or AC10U(for 10-key pad)
- IXDA
  - Surface mounting
- IXDVF
  - Flush mounting
- IXDVFBK
  - Flush mounting
  - Black color panel
- IXDVFR
  - Flush mounting
  - Red color panel
- IXDVFT
  - Flush mounting
  - Card reader
- IXDVFBM

- Flush mounting
  - Hearing aid
- IXDVFTBM
  - Flush mounting
  - Card reader
  - Hearing aid
- IXDVFCV
  - Flush mounting
  - 10-key pad
- IXDVFCVBM
  - Flush mounting
  - Card reader
  - Hearing aid
  - 10-key pad
- IXDVF2BM
  - Flush mounting
  - Hearing aid
  - 2 call buttons
- IXDVF4BM
  - Flush mounting
  - Hearing aid
  - 4 call buttons
- IXDVF6BM
  - Flush mounting
  - Hearing aid
  - 6 call buttons

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