

Avaya Solution & Interoperability Test Lab

Application Notes for Aiphone IX Series PC Video Master Station (IX-SOFT) 1.6 with Avaya IP Office $^{\rm TM}$ 11.1 – Issue 1.0

Abstract

These Application Notes describe the procedures for configuring Aiphone IX Series PC Video Master Station (IX-SOFT) 1.6 which was compliance tested with Avaya IP OfficeTM 11.1.

The overall objective of the interoperability compliance testing was to verify Aiphone IX Series PC Video Master Station (IX-SOFT) functionality in an environment comprised of Avaya IP OfficeTM and various Avaya endpoints. Aiphone IX Series PC Video Master Station is a SIP based PC softphone.

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-SOFT PC Video Master Station to interoperate with Avaya IP Office.

The Aiphone IX Series PC Master Station (IX-SOFT) is part of Aiphone IX Series Master Stations. The Aiphone IX Series PC Master Station (IX-SOFT) acts as a SIP phone when connected to Avaya IP Office. It supports the PC's built-in camera allowing for two-way video. Additionally, the Aiphone IX Series PC Master Station (IX-SOFT) has intercom features that include paging, line supervision, device check, picture in picture when using 3rd party ONVIF Profile S cameras, and an intuitive map (not tested). The map can be used to answer and place calls, release doors, and pull up cameras from devices in the system.

During the compliance test, Avaya IP Office Server Edition was used as a primary system and Avaya IP Office 500V2 as an expansion system. Aiphone IX- registered as a 3rd party SIP phone using UDP to the Avaya IP Office Server Edition.

2. General Test Approach and Test Results

The focus of this interoperability compliance testing was to verify that the Aiphone IX-SOFT can register as a SIP endpoint on IP Office, and is able to originate and receive both audio and video calls to and from the IP Office 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-SOFT, and exercise basic telephone operations. The main objectives were to verify the following:

- SIP Registration
- Calls to/from Avaya SIP Video & Audio endpoints
- Calls to/from Avaya H.323 Audio endpoints
- Calls to/from PSTN via SIP Trunks
- Hold/Resume, Call Transfer and Conferencing
- Serviceability testing focusing on recovery from Ethernet disconnect/reconnect

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-SOFT, 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.comPhone: 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 IP Office components and Aiphone IX-SOFT.

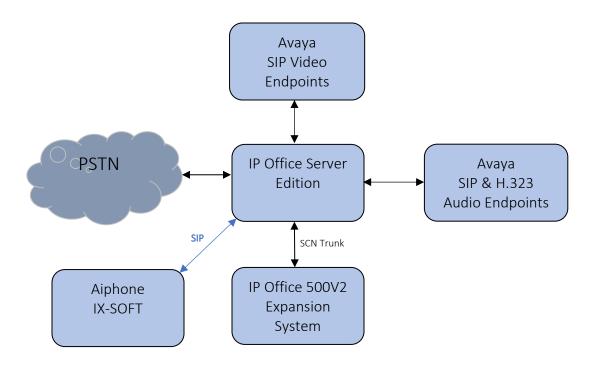


Figure 1: Test Configuration of Aiphone IX-SOFT with Avaya IP Office

4. Equipment and Software Validated

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

Equipment	Software/Firmware
Avaya IP Office Server Edition	11.1.0.1.0 build 95
Avaya IP Office 500V2	11.1.0.1.0 build 95
Avaya IP Office Manager	11.1.0.1.0 build 95
Avaya 9600 Series H.323 IP Desk phones	6.8304
Avaya J179 SIP Phone	4.0.6.0.8
Avaya IX Workspace	3.14.0.53.10
Avaya H175 Collaboration Station	1.0.2.3
Avaya Vantage K175 Phone	2.0.1
Aiphone IX Series PC Video Master Station IX-	1.6
SOFT	

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

5. Configure Avaya IP Office™

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

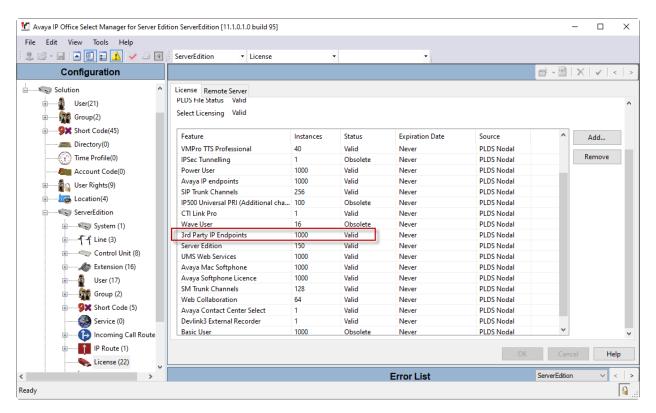
- Verify IP Office license
- Obtain LAN IP address
- Administer SIP registrar
- Administer SIP extensions
- Administer SIP users

These steps are performed from the Avaya IP Office Manager.

5.1. Verify IP Office License

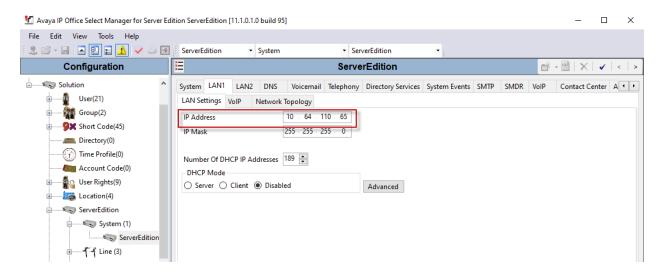
From a PC running the Avaya IP Office Manager application, select **Start** All **Programs** IP Office Manager to launch the Manager application. Select the proper IP Office system if there are more than one IP Office system, and log in with the appropriate credentials.

The Avaya IP Office Manager screen is displayed. From the configuration tree in the left pane, select **License** \rightarrow 3rd **Party IP Endpoints** to display the Avaya IP endpoints screen in the right pane. Verify that the License Status field is set to **Valid**.



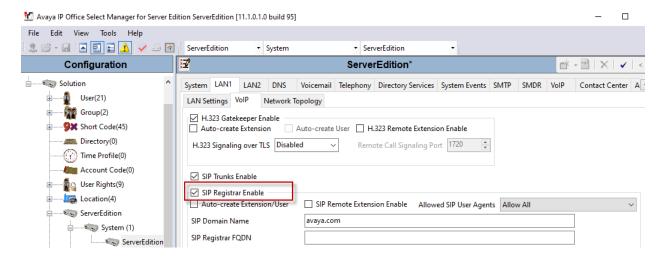
5.2. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the System screen 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 Aiphone IX-SOFT.



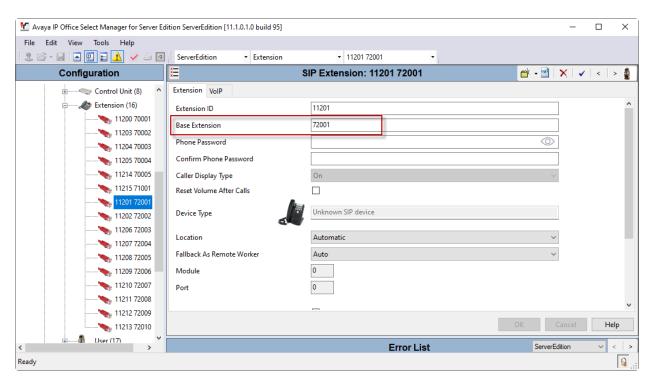
5.3. Administer SIP Registrar

Continuing from above, select the **VoIP** sub-tab. Ensure that **SIP Registrar Enable** is checked, as shown below.



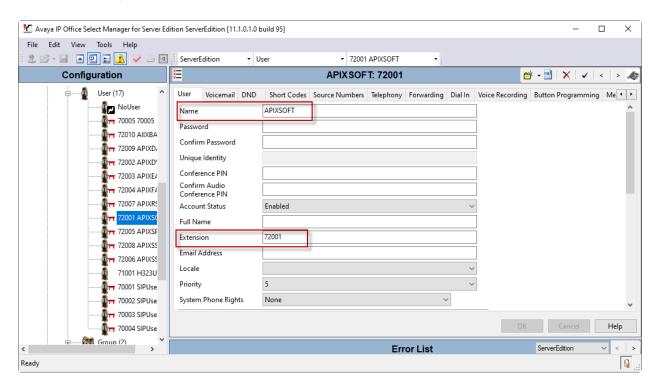
5.4. Administer SIP Extensions

To create a new SIP Extension, from the configuration tree in the left pane, right-click on **Extension**, and select **New** → **SIP Extension** from the pop-up list (not shown). Enter desired digits for the **Base Extension** field. This is the Extension that will be used for Aiphone IX-SOFT to log in.

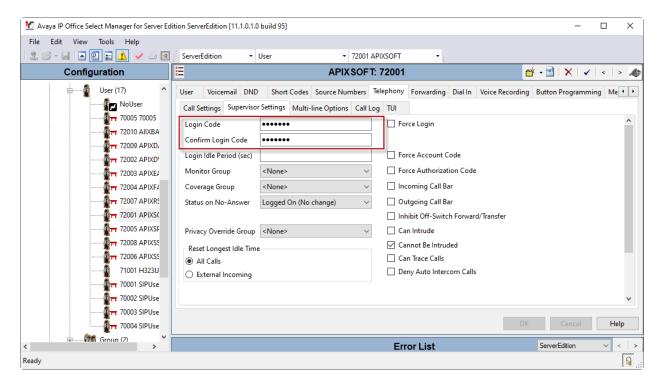


5.5. Administer SIP Users

To create a new SIP User, from the configuration tree in left pane, right-click on **User**, and select **New** from the pop-up list (not shown). Enter desired values for the **Name** field. For the **Extension** field, enter the SIP extension created in **Section 5.4**.



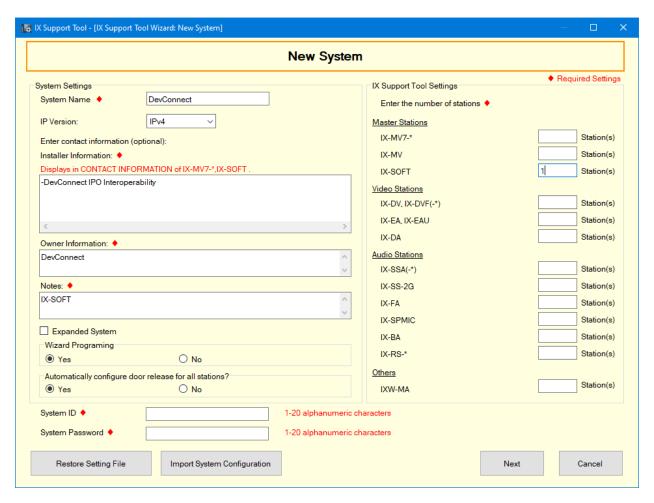
Select the **Supervisor Settings** tab, and enter a desired **Login Code** and **Confirm Login Code**. This code will be used as a password for Aiphone IX-SOFT.



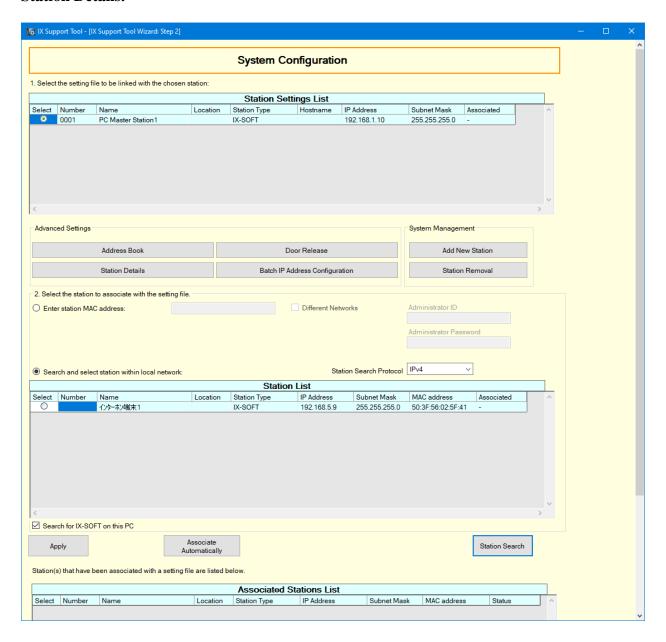
6. Configure Aiphone IX Series Master Station

This section provides steps to configure Aiphone IX-SOFT.

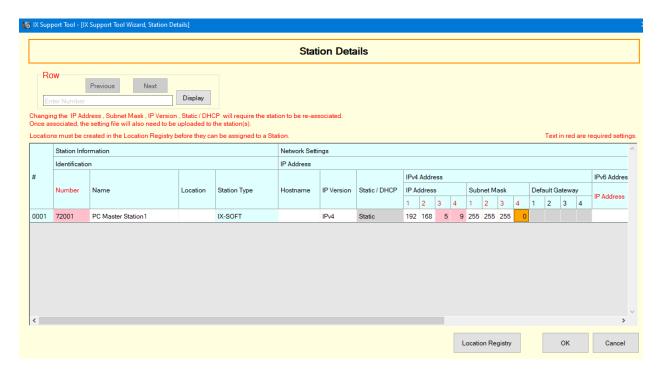
To configure Aiphone IX-SOFT, the Aiphone IX Support Tool must be used. Install and open. log into the Support Tool using appropriate credentials. Once logged in, the new system dialog opens. Enter appropriate **System Name, Installer Information, Owner Information** and **Notes** as applicable. Input a number for the **IX-SOFT Master Stations** box. Enter **System ID** and **System Password**. Select **Next**.



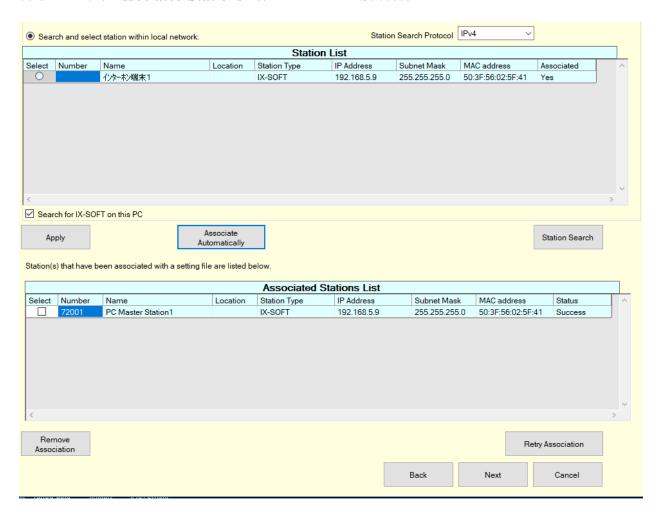
The **System Configuration** dialog opens. Select the IX-SOFT station found and click on **Station Details.**



In the **Station Details** dialog, add the **number** from **Section 5.5** and the **IP address** and the **Subnet Mask.**

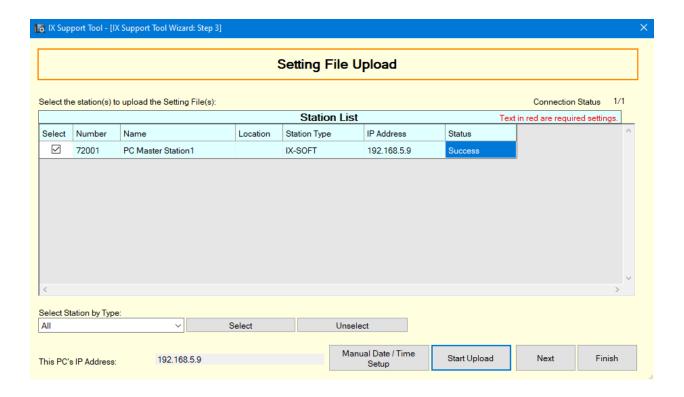


Click **OK**. In the **System Configuration** dialog, click on **Associate Automatically**. The Status column in the **Associated Stations** list should show 'Success'.



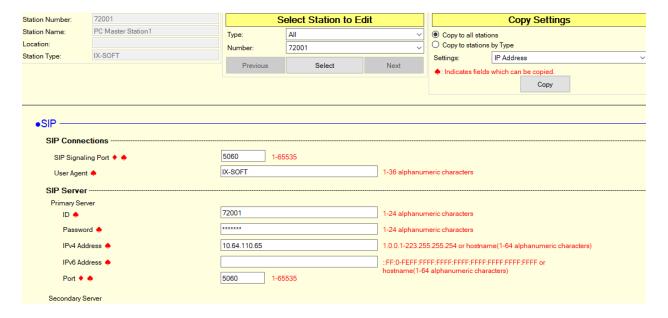
Click Next.

The **Setting File Upload** dialog opens. Select the PC Master Station 1 in the **Station List**. Select the checkbox for the station and click the **Start Upload** button. The station status should show successful upon upload completion.

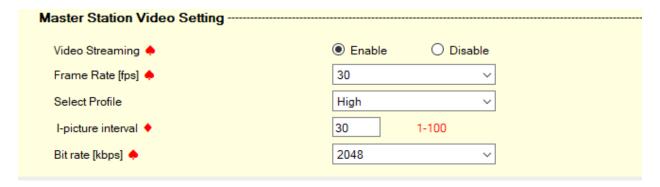


In the Station View, under Station Information, select an ID for the **user agent** (not shown). Under SIP, configure with the following values.

- SIP Signaling Port: Set to 5060.
- User Agent: Type in a desired value.
- **ID:** SIP Extension number from **Section 5.4**.
- **Password:** SIP Extension password from **Section 5.5**.
- **IPv4 Address:** LAN IP Address of Session Manager.
- **Port:** Set to **5060**.

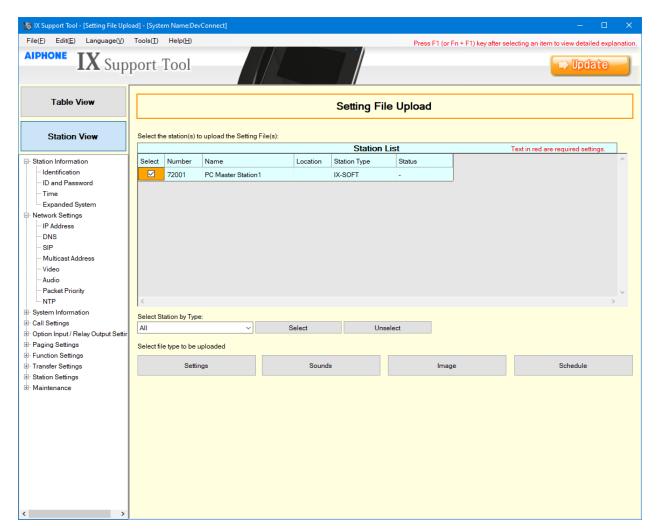


Under the Master Station Video Setting, verify the settings are as seen below.



Click the update button.

Upload the configuration changes to the station. Select **File** \rightarrow **Upload Settings to Station**. Select the master station and click the **Settings** button to upload the configuration.

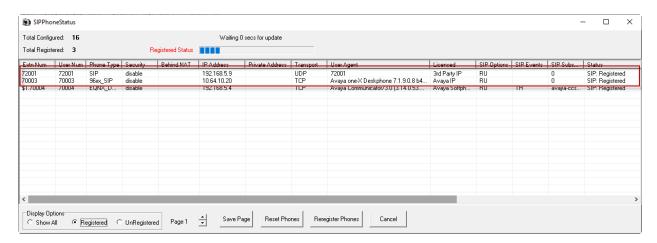


The Station List status should show successful upon completion.

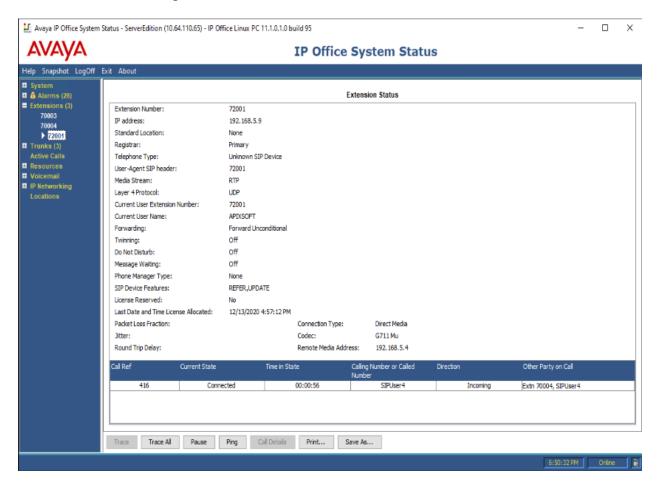
7. Verification Steps

The following steps may be used to verify the configuration:

• From a PC running the Avaya IP Office Monitor application. The **Avaya IP Office SysMonitor** screen is displayed (not shown). Select **Status** → **SIP Phone Status** from the top menu. Verify the SIP extension added from **Section 5.4** is displayed and the Status is **SIP: Registered**.



Place a call from Aiphone IX-SOFT to an Avaya endpoint. The state of the call be viewed on a PC running the Avaya IP Office System Status application. Select Extension → Aiphone IX-SOFT extension.



8. Conclusion

Aiphone IX-SOFT was compliance tested with Avaya IP Office. Aiphone IX-SOFT functioned properly in feature and serviceability tests.

9. Additional References

Avaya IP Office product documentation can be found at: http://marketingtools.avaya.com/knowledgebase/

Documentation related to Aiphone IX-SOFT 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/

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