

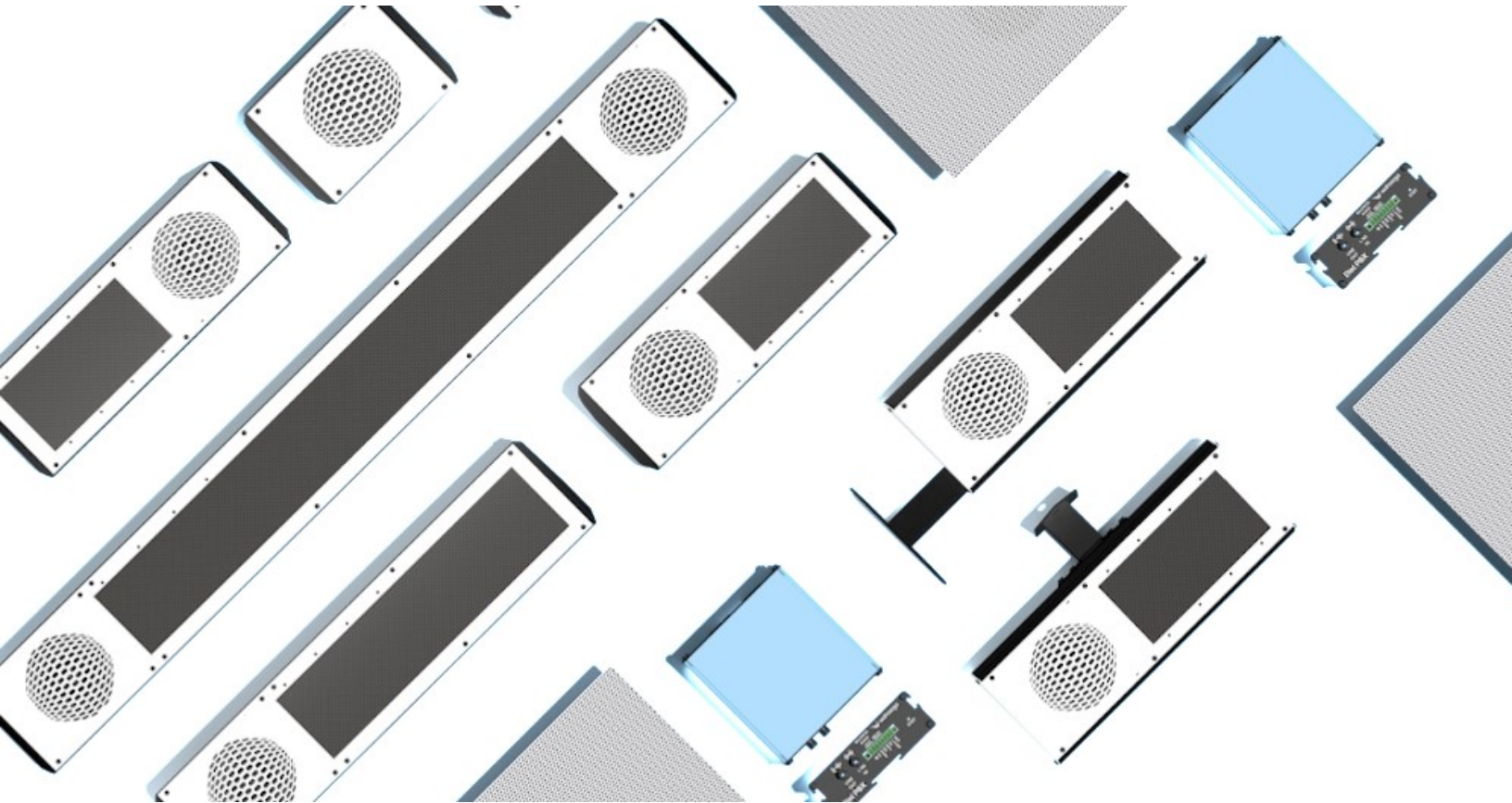


wahsega

Wahsega Speaker and IP Display with InformaCast®

Application Note

Connecting to Cisco Unified Communication Manager



This application note will guide you through connecting your InformaCast-enabled Wahsega Labs speaker or IP Display to the Cisco Unified Communications Manager (CUCM).

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1. Set up your Wahsega device.

- a. Consult your device's User Guide at www.wahsega.com and open your Wahsega device's configuration webpages.
- b. Fill in your system's parameters on the *Network* page.
- c. Fill in information for your SIP accounts on the *Accounts* page.
 - i. Note that your CUCM *Directory Number* will be used as your Wahsega *Username/Number* (found under the *General* tab), and your CUCM *User ID* will be used as your Wahsega *Authentication Username* (found under the *Advanced* tab, which is found in *Advanced Settings*).
- d. If using the "2 room" speaker configuration (*General* page), be sure that Room 1 SIP and Room 2 SIP accounts use different local ports. You can find the local port setting on the *Accounts* page, under the *Topology* tab shown in *Advanced Settings*. (See image on Page 3.)

Accounts

Configure VoIP account(s) for SIP or IP-PBX servers

Room 1 InformaCast

General

Account name ?

Audio Mixing Maximum number of audio broadcasts to play simultaneously:
 ?

Room 1 SIP

Account Actions:

Disable

General Topology QoS Advanced

SIP transport mode Automatic
 TCP
 TLS (Secure SIP)
 UDP only

Secure RTP

Local port

STUN

Room 2 InformaCast

General

Account name ?

Audio Mixing Maximum number of audio broadcasts to play simultaneously:
 ?

Room 2 SIP

Account Actions:

Disable

General Topology QoS Advanced

SIP transport mode Automatic
 TCP
 TLS (Secure SIP)
 UDP only

Secure RTP

Local port

STUN

Status

Room 1 InformaCast

MAC: 18-39-19-00-00-32

Status: Registered

Room 1 SIP

User: 340@sip.wahsega.com

Status: Registered

Room 2 InformaCast

MAC: 18-39-19-00-00-33

Status: Registered

Room 2 SIP

User: 341@sip.wahsega.com

Status: Registered

System

IP: 192.168.100.64 (Static)

MAC Address: 18-39-19-00-00-32

System time:

2016-07-05 12:36:59

Uptime: 1h 52m 10s

2. Log in to Cisco Unified CM Administration webpages.

3. Activate the IP Voice Media Streaming App if you have not done so already.

- a. Pull down the *Navigation* menu in the top-right corner of the page.
- b. Select *Cisco Unified Serviceability*.
- c. Click *Go*.
- d. On the Cisco Unified Serviceability page, pull down the *Tools* menu and select *Service Activation*.
- e. Check the box next to *Cisco IP Voice Media Streaming App*.
- f. At the bottom of the page, click *Save*.
- g. In the *Activation Status* column, the *Cisco IP Voice Media Streaming App* should now be listed as *Activated*.

4. Set up a new user in the Cisco Unified CallManager (CUCM).

- a. On the *Cisco Unified CM Administration* page, pull down the *User Management* menu and select *End User*.
- b. On the *Find and List Users* page, click *Add New*.
- c. On the *End User Configuration* page, fill in the required (*) fields with your device's information.

- i. For *User ID*, enter your Wahsega device's *Username/Number* as entered in the Wahsega configuration webpages under *Accounts*.
 1. If you used an *Authentication Username* for your Wahsega device (on the *Accounts* page, under the *Advanced* tab), enter that *Authentication Username* in the *CUCM User ID* field.
 2. If you used an *Authentication Username* for your Wahsega device (on the *Accounts* page, under the *Room X SIP / Advanced* tab), enter the password (from the *Accounts* page, under the *Room X SIP / General* tab) in the *CUCM Digest Credentials* field. Enter it again in the *Confirm Digest Credentials* field.
 - ii. If you entered a password for your Wahsega device (on the *Accounts* page, under the *Room X SIP / General* tab), make sure to enter that password in the *CUCM Password* field. Enter it again in the *Confirm Password* field.
- d. Click *Save*.
- e. In a moment, the top of the page should read, *Update Successful* **or** *Add Successful*.

5. Set up new phone device in the CUCM.

- a. On the *Cisco Unified CM Administration* main page, pull down the *Device* menu and select *Phone*.
- b. On the *Find and List Phones* page, click *Add New*.
- c. On the *Add a New Phone* page, pull down the *Phone Type* menu and select *Third Party SIP Device (Basic)*.
- d. Click *Next*.
- e. On the *Phone Configuration* page, enter the appropriate values for your Wahsega device in the required (*) fields.
 - i. MAC Address
 1. Enter the MAC address for your Wahsega device, as found on your device's packaging and/or on the device itself. It can also be found in the *Status* bar on the right side of the Wahsega configuration webpages.
 2. The MAC address should be entered in a 12-character format, with no spaces or dashes (e.g., *00102A030B1C*).
 - ii. Description
 1. This field is not required. It is for your reference only, so type in any name you'd like.
 - iii. Device Pool
 1. Select *Default*.

iv. Phone Button Template

1. Select *Third-party SIP Device (Basic)*.

v. Common Phone Profile

1. Select *Standard Common Phone Profile*.

vi. Device Mobility Mode

1. Select *Default*.

vii. Owner User ID

1. Select the name that you entered into the *User ID* field when setting up your new user in CUCM (step **4c** above).

viii. Use Trusted Relay Point

1. Select *Default*.

ix. Presence Group

1. Select *Standard Presence group*.

x. MTP Preferred Originating Codec

1. Choose your preferred codec here. *711ulaw* is the standard default codec.

xi. Device Security Profile

1. Select *Third-party SIP Device Basic – Standard SIP Non-Secure Profile*.

xii. SIP Profile

1. Select *Standard SIP Profile*.

xiii. Digest User

1. Select the name that you entered into the *User ID* field when setting up your new user in CUCM (step **4c** above).

f. Check the box next to *Media Termination Point Required*.

g. Click *Save*.

h. After a moment, the page should refresh and display a popup which reads, **⚠***Click on the Reset Phone button to have the changes take effect.*

i. Click *OK*.

i. You'll need to reset your device once the page refreshes. At the bottom of the *Phone Configuration* page, click *Reset*.

j. In the *Device Reset* popup, click *Reset* once more.

k. Click *Close*.

l. Once the device reset is completed, you should see **👍***Add successful* at the top of the *Phone Configuration* page.

6. Create a new Directory Number (DN).

- a. On the left side of the *Phone Configuration* page, look for a box labeled *Association Information*, containing *Modify Button Items*.
 - i. Click *Line [1] – Add a new DN*.
- b. On the *Directory Number Configuration* page, find the *Directory Number* field.
- c. At *Directory Number*, enter the *Username/Number* of the Wahsega device you'd like to associate. (This is the number you configured on the *Accounts* page of your Wahsega configuration pages, under the *General* tab.)
- d. At the bottom of the page, click *Save*.

7. Associate the Directory Number to the new user.

- a. At the top of the page, pull down the *User Management* menu and select *End User*.
- b. On the *Find and List Users* page, click the *Find* button under *User*.
- c. You should now see all pre-configured Users listed under *User ID*.
- d. Click the User ID that you set up in Section 4 (above).
- e. On the *End User Configuration* page, click the *Device Association* button.
- f. On the *User Device Association* page, click the *Find* button.

- g. If you leave the search box empty, all user devices should appear below.
- h. Look for your device's MAC address under *Device Name* and tick the box to the left of it.
- i. Click the *Save Selected/Changes* button at the bottom of the page.
- j. Pull down the *Related Links* menu in the top right corner and select *Back to User*. Click *Go*.
- k. On the *End User Configuration* page, verify that the correct device's MAC address or Cisco identifier is listed under *Device Associations* in the *Controlled Devices* window.
- l. Under *Directory Number Associations*, pull down the *Primary Extension* menu and choose the number you'd like to associate with the End User. This should be the same number you entered as *Directory Number* in step **6c** above.
- m. At the bottom of the page, click *Save*.

8. Check the registration.

- a. At the top of the page, pull down the *Device* menu and select *Phone*.
- b. Under *Phone* on the *Find and List Phones* page, click the *Find* button.
- c. Your new device should appear with its status listed as *Registered with [IP address]*.