

# Avaya Aura<sup>®</sup> Communication Manager configuration for BLU-103

Application Notes for Configuring BLU-103 VoIP Solution with  
Avaya Aura<sup>®</sup> Session Manager 6.3 and Avaya Aura<sup>®</sup> Communication Manager 6.3



# 1. Introduction

BLU-103 VoIP device allows making and receiving phone calls over any Voiceover-IP (VoIP) system that adheres to the SIP (Session Initiation Protocol) standard.

The BLU-103 VoIP device integrates with Avaya SIP infrastructure consisting of Avaya Aura® Session Manager and Avaya Aura® Communication Manager as third-party SIP endpoints. These Application Notes describe the steps required to configure BLU-103 VoIP to work as Avaya third party SIP endpoints.

# 2. Interoperability Compliance

Interoperability compliance covers the following features and functionality:

- Successful registration of BLU-103 VoIP device with Session Manager
- Calls between BLU-103 VoIP device and Avaya SIP, H.323
- G.711, G.722 and G729/B codec support and negotiation, with and without media shuffling
- Basic features including phone display, mute/unmute, answer, hang up, music on hold, DTMF
- Proper system recovery of a BLU-103 VoIP telephone after removal and reconnection of LAN cable.

# 3. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager. The procedures include the following areas:

- Launch System Manager
- Administer users

## 3.1 Launch System Manager

- 3.1.1 Log on to the System Manager Web interface ([https ://< SERVER\\_NAME >/ SMGR](https://< SERVER_NAME >/ SMGR)).
- 3.1.2 Enter your user name in the User ID field
- 3.1.3 Enter your password in the Password field.
- 3.1.4 Click Log On.

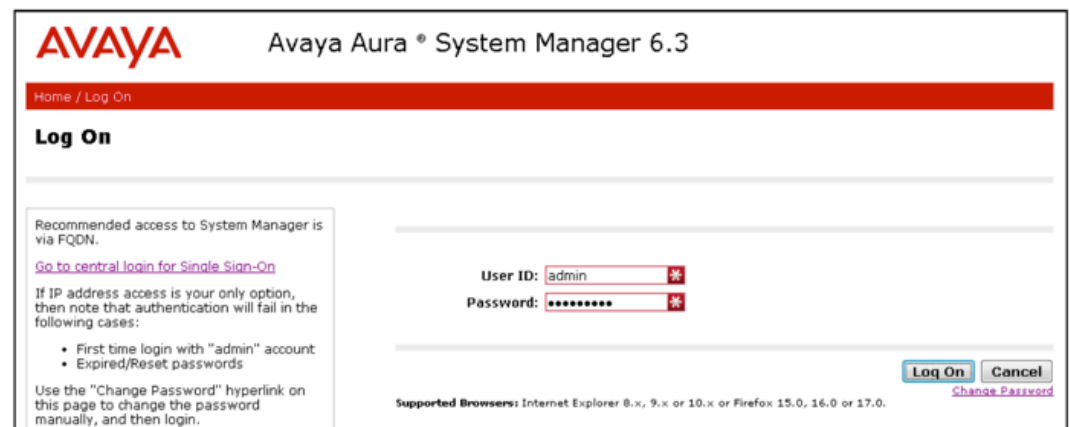


FIGURE 3.1.4

# Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager.

## 3.2 Administer users

- 3.2.1 Go to User management page
- 3.2.2 Select Users → Manage Users
- 3.2.3 In the User Management page, click New
- 3.2.4 In the General section, enter the user's last name and first name.
- 3.2.5 Enter a description in the Description field.  
This field is optional
- 3.2.6 For Login Name, enter "extension@domain",  
where extension is the BLU user extension
- 3.2.7 The Authentication Type should be Basic
- 3.2.8 Set Password

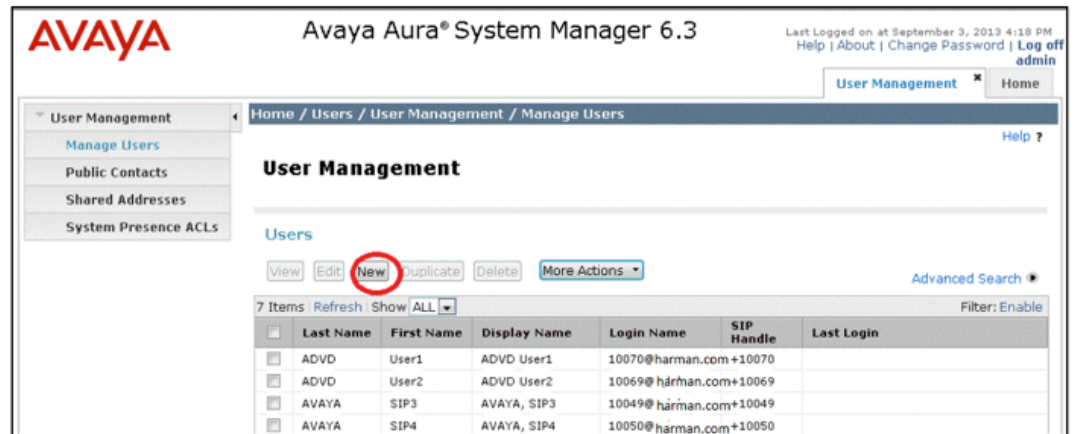


FIGURE 3.2.3

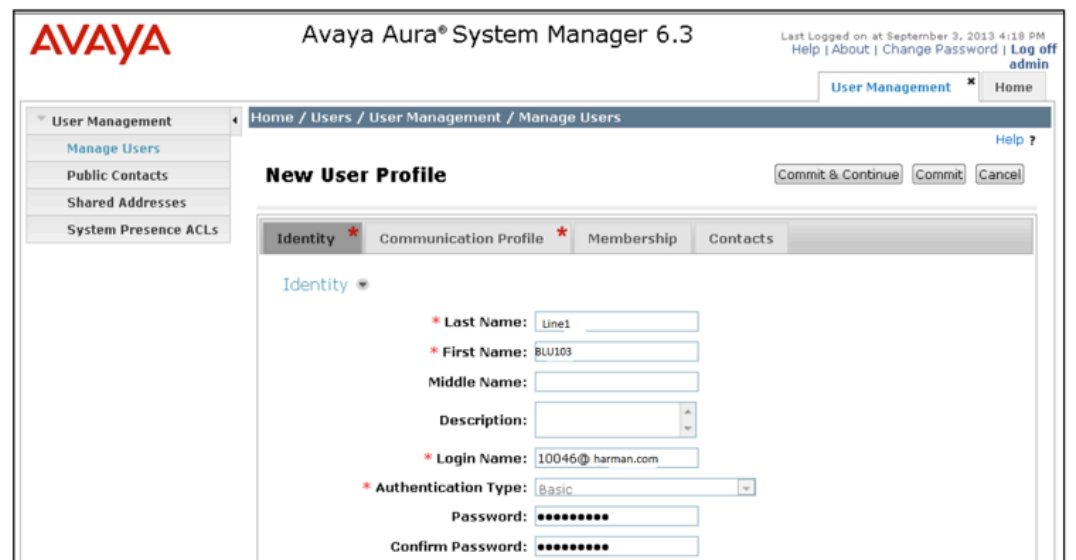


FIGURE 3.2.4

# Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager.

- 3.2.9 Select communication profile
- 3.2.10 The Communication Profile Password must be administered. This is the Password that is used when logging in to the phone.
- 3.2.11 Click on the show/hide button for Communication Address.

Avaya Aura® System Manager 6.3

Last Logged on at September 3, 2013 4:18 PM  
Help | About | Change Password | Log off admin

User Management Home

Home / Users / User Management / Manage Users

**New User Profile** Commit & Continue Commit Cancel

Identity \* Communication Profile \* Membership Contacts

Communication Profile

Communication Profile Password: [password field]  
Confirm Password: [password field]

New Delete Done Cancel

Name
Primary

Select : None

\* Name: Primary  
Default:

Communication Address

New Edit Delete

Type	Handle	Domain
No Records found		

FIGURE 3.2.9

- 3.2.12 For each SIP handle
  - Click New.
  - Select Avaya SIP from the drop-down menu for Type if it is not set already.
  - In the Fully Qualified Address field, enter the extension number.
  - Click Add.

Communication Address

New Edit Delete

Type	Handle	Domain
No Records found		

Type: Avaya SIP

\* Fully Qualified Address: 10046 @ harman.com

Add Cancel

FIGURE 3.2.12

# Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Avaya Aura® Session Manager.

## 3.2.13 Assign the users to a Communication Manager station

### Step1:

Scroll down to check and expand Session Manager Profile. For Primary Session Manager, Origination Application Sequence, Termination Application Sequence, and Home Location, select the values corresponding to the applicable Session Manager and Communication Manager. Retain the default values in the remaining fields. These settings are configured during the initial setup of Session Manager.

### Step2:

Scroll down to check and expand CM Endpoint Profile. For System, select the value corresponding to the applicable Communication Manager. For Profile Type, select Endpoint. For Extension, enter the SIP user extension from Step 3.2.12. For Template, select "9630SIP\_DEFAULT\_CM\_6\_3". For Port, select "IP". Retain the default values in the remaining fields.

## Repeat Section 3.2 to add a user for BLU-103 VoIP Line2

You have now successfully added the SIP users to the Avaya Aura® Session Manager

The screenshot displays the configuration interface for Avaya Aura Session Manager, divided into two main sections: SIP Registration and CM Endpoint Profile. Red boxes highlight the fields that need to be configured according to the instructions.

**SIP Registration Section:**

- Primary Session Manager:** sm1
- Secondary Session Manager:** (None)
- Survivability Server:** (None)
- Max. Simultaneous Devices:** 1
- Block New Registration When Maximum Registrations Active?:**
- Application Sequences:**
  - Origination Sequence:** cm6-duplex-app-seq
  - Termination Sequence:** cm6-duplex-app-seq
- Call Routing Settings:**
  - Home Location:** Location1
  - Conference Factory Set:** (None)

Primary	Secondary	Maximum
7	0	7

**CM Endpoint Profile Section:**

- System:** CM6-duplex
- Profile Type:** Endpoint
- Use Existing Endpoints:**
- Extension:** 10046
- Template:** 9630SIP\_DEFAULT\_CM\_6\_3
- Set Type:** 9630SIP
- Security Code:** (empty)
- Port:** IP
- Voice Mail Number:** (empty)
- Preferred Handle:** (None)
- Enhanced Callr-Info display for 1-line phones:**
- Delete Endpoint on Unassign of:**

FIGURE 3.2.13

# 4. BLU-103 Configuration

Next, we'll focus on setting up the BLU-103 configuration to match the settings that were used in Aura® Communication Manager.

**Step 1** Open the Audio Architect software and discover the BLU-103 device

**Step 2** Add the discovered BLU-103 to the venue

**Step 3** Double-click on the device to view its internal audio configuration. Single-click on the "VoIP Input" Processing Object. Go to the properties grid.

**Step 4** Under the "VoIP Network" category in the Properties select "DHCP", the VoIP interface will obtain an IP address automatically from a DHCP server. Otherwise, set "static" and manually enter an appropriate static IP Address, Subnet Mask, DNS and Gateway for the VoIP interface.

**Step 5** In the same tab, set "VLAN enabled" to "Checked", if your VoIP network uses a tagged VLAN. If the network uses an untagged VLAN or no VLAN, leave this value as "Disabled". If VLAN is enabled, enter the correct VLAN ID

## BLU-103 VoIP Control/Status block

BLU-103 VoIP Control		Avaya Aura® Communication Manager
User name	=	Extension number
Authentication name	=	Login name
Password	=	Communication Profile Password

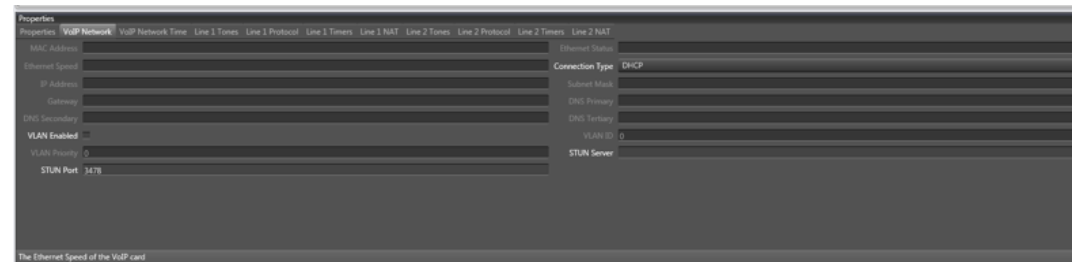
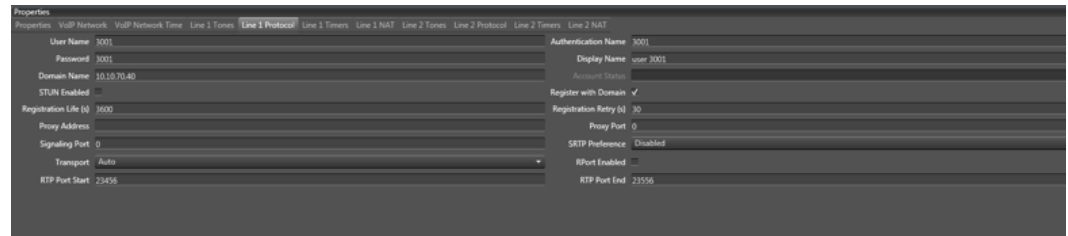


FIGURE 4

# BLU-103 Configuration

This section focuses on setting up the BLU-103 configuration to match the settings that were used in Aura® Communication Manager.

- Step 6** Under properties go to “Line 1 Protocol” tab
- Enter the User Name and Authentication Name assigned to you when signing up for VoIP service
  - Enter the password to get authenticated to the VoIP service
  - Enter the Display Name in the field provided. This is also known as Caller ID.
  - Enter VoIP server address (i.e., Avaya Aura® Communication Manager’s address) in the “Domain Name” field.
  - STUN and SRTP is disabled by default
  - Default Transport is Auto which uses UDP



**FIGURE 7**

- Step 7** To register the Line 2 go to “Line 2 Protocol” and repeat the above step 6

- Step 8** Go online in Audio Architect

- Step 9** The “Account Status” will be “Proxy Registered” once the registration is successful

- Step 10** If the registration is unsuccessful it will display messages such as “Not configured”, “AUTHENTICATION\_FAILURE” ....

# 5. Making calls from BLU-103

Follow the below steps to make a call

Placing a call from the DUT/AA is performed only if the user is registered to the network [Check the "account status" field]. Once the user is registered, follow the below steps to make a call.

**Step 1** Double-click on the "VoIP Input" Processing Object to open its default panel.

**Step 2** Enter the registered number you wish to dial either from Line 1 or Line 2 (use the tabs at the top of the panel to switch between the two lines)

**Step 3** Click on the call button [Visible in green]

**Step 4** Once the conversation is done press the disconnect button [Visible in red]

