

Avaya Solution & Interoperability Test Lab

## Application Notes for Global BHS FLAvoice with Avaya Aura® Session Manager and Avaya Aura® Communication Manager – Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for Global BHS FLAvoice to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. Global BHS FLAvoice is a hospitality solution.

In the compliance testing, Global BHS FLAvoice used the SIP User interface from Avaya Aura® Session Manager to provide hospitality features including voicemail, wakeup call, room status, and minibar.

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 Global BHS FLAvoice to interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. FLAvoice is a hospitality solution that uses the SIP User interface from Session Manager to provide voicemail, wakeup call, room status, and minibar features.

In the compliance testing, FLAvoice emulated six virtual SIP users that registered to Session Manager. The six virtual SIP users were configured as separate members of three hunt groups for handling of voicemail, wakeup call, room status and minibar. FLAvoice used the Abto VoIP SIP SDK for Windows to support all SIP communications.

In the compliance testing, subscribers of FLAvoice voicemail consisted of all staff and guest station users on Communication Manager. The Call Coverage feature from Communication Manager was used to redirect calls to FLAvoice via an available virtual SIP user in the voicemail hunt group. The activation and deactivation of Message Waiting Indicator (MWI) for voicemail users were accomplished by FLAvoice via use of SIP NOTIFY.

Scheduling of wakeup calls were initiated from the staff and guest telephones by calling the wakeup call hunt group, and the delivery of wakeup calls were initiated by FLAvoice via available virtual SIP users associated with the wakeup feature.

Room status and minibar were accomplished by calling the room status and minibar hunt group from the guest telephones.

FLAvoice also supports the Property Management System (PMS) interface for integration with a third-party PMS system for initiation of other hospitality features such as check-in and checkout. In the compliance testing, the FLAvoice CHECK-INS AND CHECK-OUTS MANAGER VIA IP tool was used for setting of necessary check-in, check-out, and room change status for various guests on FLAvoice as part of testing the voicemail, wakeup call, room status and minibar features.

# 2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were made from local users to the hunt groups for various features. Calls were made from the PSTN to the voicemail hunt group to verify remote retrieval of voice messages.

The serviceability test cases were performed manually by disconnecting/reconnecting the Ethernet connection to FLAvoice.

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 Session Manager and FLAvoice did not include use of any specific encryption features as requested by Global BHS.

### 2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on FLAvoice:

- Proper handling of SIP message exchanges including registration, G.711, G.729, media shuffling, codec negotiation, session refresh, DTMF, REFER, and NOTIFY.
- Voicemail recording, logging, and retrieval, with proper MWI activation/deactivation.
- Scheduling and delivery of wake-up calls, including retried attempts and escalation to staff.
- Proper handling of room status and minibar.

The serviceability testing focused on verifying the ability of FLAvoice to recover from adverse conditions, such as disconnecting and reconnecting the Ethernet connection to FLAvoice.

### 2.2. Test Results

All test cases were executed. The following was observed on FLAvoice from the compliance testing.

• When a voicemail user calls from the PSTN to perform remote retrieval of voice message, the greeting announcement heard by the caller was slightly chopped off from the beginning. Global BHS shared that a configurable delay will be implemented in a future release to help address this observation.

#### 2.3. Support

Technical support on FLAvoice can be obtained through the following:

- **Phone:** +1 (407) 501-7500
- Email: <a href="mailto:support@globalbhs.com">support@globalbhs.com</a>
- Web : <u>http://globalbhs.com/suporte</u>

# 3. Reference Configuration

The configuration used for the compliance testing is shown in **Figure 1**, with the domain name used in the testing being "dr220.com".

The configuration of Session Manager is performed via the web interface of System Manager. The detailed administration of basic connectivity between Communication Manager, System Manager, and Session Manager are not the focus of these Application Notes and will not be described.

The Communication Manager resources used in the compliance testing are shown in the table below.

Device Type	Extension
Staff Station	65001 (H.323)
Guest Station	66002 (SIP), 63001 (Analog)



**Figure 1: Compliance Testing Configuration** 

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SPOC 6/17/2020

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# 4. Equipment and Software Validated

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

Equipment/Software	<b>Release/Version</b>
Avaya Aura® Communication Manager in Virtual Environment	8.1.1 (8.1.0.1.1.890.25763)
Avaya G450 Media Gateway	41.16.0
Avaya Aura® Media Server in Virtual Environment	8.0.1.121
Avaya Aura® Session Manager in Virtual Environment	8.1.1 (8.1.1.0.811021)
Avaya Aura® System Manager in Virtual Environment	8.1.1 (8.1.1.0.0310912)
Avaya 9611G IP Deskphone (H.323)	6.8202
Avaya J129 IP Deskphone (SIP)	4.0.2.1.3
2500YMGK Analog Phone	NA
Global BHS FLAvoice • Abto VoIP SIP SDK for Windows (SIPVoipSDK.dll)	9.4.7 4.11.406.1

## 5. Configure Avaya Aura® Communication Manager

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

- Administer IP codec set
- Administer hunt groups
- Administer coverage path
- Administer stations

#### 5.1. Administer IP Codec Set

Administer a codec set for integration with FLAvoice. Use the "change ip-codec-set n" command, where "n" is an existing codec set number to use for interoperability. In the compliance testing, codec set "1" was used for FLAvoice and for the staff and guest stations.

For **Audio Codec**, enter the pertinent codec variants as shown below. For **Media Encryption** make certain "none" is included. For **Encrypted SRTCP**, make certain the value is not "enforce-enc-srtcp".

#### 5.2. Administer Hunt Groups

Administer three hunt groups for FLAvoice voicemail, wakeup call, and combined room status and mini bar respectively.

#### 5.2.1. Voicemail

Use the "add hunt-group n" command, where "n" is an available hunt group number. This hunt group is used for FLAvoice voicemail. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Group Number:** The available group number.
- **Group Name:** A descriptive name.
- Group Extension: An available extension number.
- Group Type: "circ"

```
      add hunt-group 61
      Page 1 of 60

      HUNT GROUP
      HUNT GROUP

      Group Number: 61
      Group Name: FLAvoice Voicemail

      Group Extension: 62001
      Coverage Path:

      TN: 1
      Night Service Destination:

      COR: 1
      MM Early Answer? n

      Security Code:
      Local Agent Preference? n

      ISDN/SIP Caller Display:
      Istance
```

Navigate to **Page 3** and enter the extension of all FLAvoice virtual SIP users from **Section 6.3** for handling of voicemail, as shown below.

add hunt-group 61		Page	<b>3</b> of 60
HUNT	GROUP		
Group Number: 61 Group Extension:	62001 0	Group Type:	circ
Member Range Allowed: 1 - 1500	Administered Members	(min/max):	0 /0
	Total Administere	ed Members:	0
GROUP MEMBER ASSIGNMENTS			
Ext Name(16 characters	) Ext	Name(16 cha	aracters)
1: <b>66991</b>	14:		
2: <b>66992</b>	15:		
3:	16:		

#### 5.2.2. Wakeup Call

Use the "add hunt-group n" command, where "n" is an available hunt group number. This hunt group is used for FLAvoice wakeup call. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Group Number:** The available group number.
- **Group Name:** A descriptive name.
- Group Extension: An available extension number.
- Group Type: "circ"

```
      add hunt-group 62
      Page 1 of 60

      HUNT GROUP
      HUNT GROUP

      Group Number: 62
      Group Name: FLAvoice Wakeup

      Group Extension: 62002
      Coverage Path:

      TN: 1
      Night Service Destination:

      COR: 1
      MM Early Answer? n

      Security Code:
      Local Agent Preference? n

      ISDN/SIP Caller Display:
      Fage 1 of 60
```

Navigate to **Page 3** and enter the extension of all FLAvoice virtual SIP users from **Section 6.3** for handling of wakeup call, as shown below.

add hunt-group 62		<b>Page 3</b> of 60
HU	UNT GROUP	
Group Number: 62 Group Extension	on: 62002	Group Type: circ
Member Range Allowed: 1 - 1500	Administered Mem	bers (min/max): 0 /0
	Total Admini	stered Members: 0
GROUP MEMBER ASSIGNMENTS		
Ext Name(16 characte	ers) Ext	Name(16 characters)
1: <b>66993</b>	14:	
2: <b>66994</b>	15:	
3:	16:	

#### 5.2.3. Room Status and Minibar

Use the "add hunt-group n" command, where "n" is an available hunt group number. This hunt group is used for FLAvoice room status and minibar. Enter the following values for the specified fields and retain the default values for the remaining fields.

- **Group Number:** The available group number.
- **Group Name:** A descriptive name.
- Group Extension: An available extension number.
- Group Type: "circ"

```
      add hunt-group 63
      Page 1 of 60

      HUNT GROUP
      HUNT GROUP

      Group Number: 63
      Group Name: FLAvoice RoomBar

      Group Extension: 62003
      Coverage Path:

      TN: 1
      Night Service Destination:

      COR: 1
      MM Early Answer? n

      Security Code:
      Local Agent Preference? n

      ISDN/SIP Caller Display:
      Fage 1 of 60
```

Navigate to **Page 3** and enter the extension of all FLAvoice virtual SIP users from **Section 6.3** for handling of room status and minibar, as shown below.

add hunt-group 63		Page	<b>3</b> of 60
HUNT	GROUP		
Group Number: 63 Group Extension:	62003	Group Type:	circ
Member Range Allowed: 1 - 1500	Administered Members	(min/max):	0 /0
	Total Administere	ed Members:	0
GROUP MEMBER ASSIGNMENTS			
Ext Name(16 characters	) Ext	Name(16 cha	aracters)
1: <b>66995</b>	14:		
2: <b>66996</b>	15:		
3:	16:		

#### 5.3. Administer Coverage Path

Add a coverage path using the "add coverage path n" command, where "n" is an available coverage path number. This coverage path is used for coverage to FLAvoice for voicemail.

For **Point1**, enter "h61" to designate the voicemail hunt group "61" from **Section 5.2.1** as the first coverage point. Retain the default values in the remaining fields.

add coverage path 61			Page 1 of 1
	COVERAGE P.	АТН	-
Coveraç	ge Path Number: 61		
Cvg Enabled for VDN H	Route-To Party? n	Hunt a	fter Coverage? n
Nez	t Path Number:	Linkag	e
COVERAGE CRITERIA			
Station/Group Status	Inside Call	Outside Call	
Active?	n	n	
Busy?	У	У	
Don't Answer?	У	У	Number of Rings: 2
All?	n	n	
DND/SAC/Goto Cover?	У	У	
Holiday Coverage?	n	n	
COVERAGE POINTS			
Terminate to Coverage	Pts. with Bridged	Appearances?	n
Point1: h61	Rng: Point2:		
Point3:	Point4:		
Point5:	Point6:		

#### 5.4. Administer Stations

Use the "change station n" command, where "n" is a non-SIP station extension from **Section 3**. Note that similar configuration for SIP station extensions are performed from System Manager in **Section 6.2**.

For Coverage Path 1, enter the coverage path number from Section 5.3.

For analog stations, the **Message Waiting Indicator** may need modification, depending on the type of analog telephone. In the compliance testing, one analog station with phone **Type** of "2500" was required to have the **Message Waiting Indicator** set to "led" for interoperability.

```
change station 63001
                                                                                 Page
                                                                                          1 of
                                                                                                   4
                                              STATION
                                             Lock Messages? n
Security Code:
Coverage Path 1: 61
Coverage Path 2:
                                                                                         BCC: 0
Extension: 63001
      Type: 2500
                                                                                           TN: 1
                                          Coverage Path
Coverage Path
Hunt-to Station:
                                                                                       COR: 1
      Port: 001V302
                                                                                          COS: 1
      Name:
Unicode Name? n
                                                                                       Tests? y
STATION OPTIONS
    XOIP Endpoint type: auto
Loss Group: 1
Off Premises Station? n
                                                     Time of Day Lock Table:
                                                Message Waiting Indicator: led
                                                       Message Lamp Ext: 63001
```

Repeat this section and Section 6.2 to administer all stations from Section 3.

In the compliance testing, three stations were configured as shown below.

```
list station 63001 count 3
                                                              Page
                                                                    1
                             STATIONS
Ext/
Hunt-to
Ext/
          Port/ Name/
                                             Room/
                                                     Cv1/ COR/
           Type Surv GK NN Move Cable Jack Cv2 COS TN
              001V201 Analog Room
63001
                                                        61
                                                           1
              2500
                                                           1 1
                                     no
65001
              S000103 H323 Staff
                                                        61 1
                                                           1 1
              9611
                                     no
66002
              S000068 Avaya, SIP 2
                                                        61 1
                                                            1 1
              J129
                                     no
```

## 6. Configure Avaya Aura® Session Manager

This section provides the procedures for configuring Session Manager, which is performed via the web interface of System Manager. The procedures include the following areas:

- Launch System Manager
- Administer existing SIP users
- Administer virtual SIP users
- Administer Session Manager entity

### 6.1. Launch System Manager

Access the System Manager web interface by using the URL "https://ip-address" in an Internet browser window, where "ip-address" is the IP address of System Manager. Log in using the appropriate credentials.

This system is restricted solely to authorized users	
or legitimate business purposes only. The actual	User ID:
modification of this system is strictly prohibited.	
Jnauthorized users are subject to company	Password:
disciplinary procedures and or criminal and civil	
penalties under state, federal, or other applicable domestic and foreign laws.	Log On Reset
The use of this system may be monitored and	

#### 6.2. Administer Existing SIP Users

In the subsequent screen, select Users  $\rightarrow$  User Management from the top menu. Select User Management  $\rightarrow$  Manage Users (not shown) from the left pane to display the screen below. Select the entry associated with the first SIP station user from Section 3, in this case "66002", and click Edit.

Aura® Syst	A) tem M	A lanager 8.1	💄 Users 🗸	🗲 Elemen	ts 🗸 🔅 Servic	xes ∽ ∣ v	Vidgets v Shortcuts v	Searc	sh 🔰 🐥	📕   admin
Home	U	Jser Manage	ment							
U	Hor	mel / Users	R / Manage Us	ers						Help?
		Search				Q				
		View	🖉 Edit	+ New	춲 Duplicate	🖻 Delete	More Actions V			Options V
			First Nan	ne 🛊 🛛	Surname	\$ 7	Display Name 🛊 🔻	Login Name 🛊 🔻	SIP Handle	Y
			SIP 2		Avaya		Avaya, SIP 2	66002@dr220.com	66002	

The User Profile | Edit screen is displayed. Select the Communication Profile tab, followed by CM Endpoint Profile to display the screen below.

Click on the **Editor** icon shown below.

Aura® Syst	em Manager 8.1	Users 🗸 🎤 Elemer	nts 🗸 🔹 Services 🗸	✓   Widgets ∖	<ul> <li>Shortcuts </li> </ul>	Search		☰   admin
Home	User Manageme	nt						
Ŭ	Home슯 / Users 있	/ Manage Users						Help ? 🔺
	User Profile	e   Edit   66002@dr2	220.com		🗈 Commit & Co	ntinue	Commit	⊗ Cancel
	Identity	Communication Profile	Membership C	ontacts				
	Communication	Profile Password	* System :	DR-CM	*	* Profile Type :	Endpoint	×
	Communicatio	Communication Address				* Extension :	66002	
	Session Mana	ger Profile 🗾	Template :	Start typing	Q	* Set Type :	9641SIPCC	
	CM Endpoint F	Profile	Security Code :	Enter Security Cod	e	Port:	S000047	Q
	Messaging Pro	ofile	Voice Mail Number:		Pre	eferred Handle :	Select	v
			Calculate Route Pattern :			Sip Trunk :	aar	

The popped-up screen below is displayed. For **Coverage Path 1**, enter the coverage path number from **Section 5.3**.

Repeat this section to administer all SIP station users that will be using FLAvoice for voicemail. In the compliance testing, one SIP station user was configured as shown below.

ome	User Management				
	Home≙ / UsersՋ / Manage Users				Н
	User Profile   Edit   66002@	odr220.com	E) Commit &	& Continue 🕑 Commit	() Cancel
	General Options (G)	* Feature Options (F)	Site Data (S)		
	Abbreviated Call Dia	ling (A) Enhanced Call	Fwd (E) Button	Assignment (B)	
	Profile Settings (P)	Group Membership (M)			
	<ul> <li>Class of Restriction (COR)</li> </ul>	1 *	Class Of Service (COS)	1	]
	<ul> <li>Emergency Location</li> <li>Ext</li> </ul>	66002	Message Lamp Ext.	66002	
	* Tenant Number	1	2		
	* SIP Trunk	Qaar	Type of 3PCC Enabled	Avaya 🔻	
	Coverage Path 1	61	Coverage Path 2		
	Lock Message		Localized Display Name	Avaya, SIP 2	
	Multibyte Language	Not Applicable	Enable Reachability for Station Domain	system 🔻	

#### 6.3. Administer Virtual SIP Users

The screen below is displayed again. Click **New** to add a virtual SIP user for handling of FLAvoice voicemail.

Aura® Sys	A) tem M	VA Ianager 8.1	🔒 Users 🗸	🗲 Elemer	nts 🗸 🔅 Servic	xes v ∣ v	Vidgets v Shortcuts v	Sear	ch 🔔	📕   admin
Home	U	Jser Manage	ment							
U	U Home 🛆 / Users R / Manage Users									
		Search				Q				
	© View 💆 Edit 🛛 + New 🗞 Duplicate 🖽					Delete	More Actions V			Options ~
			First Nan	ne 🗧 👔	Surname	\$ 7	Display Name 🛊 🔻	Login Name 🛊 🔻	SIP Handle	Ŷ
			SIP 2		Avaya		Avaya, SIP 2	66002@dr220.com	66002	

#### 6.3.1. Identity

The User Profile | Add screen is displayed. Enter desired Last Name and First Name.

For Login Name, enter "n@x", where "n" is the desired user extension and "x" is the applicable domain name from Section 3. Retain the default values in the remaining fields.

Aura® Sys	tem Manager 8.1	🛔 Users 🗸 🍃 🖌 Eleme	nts 🗸 🔹 Services 🗸 🛛	Widgets v Shortcuts v	Sea	rch 💄 🗮 🛛
Home	User Manage	ment				
U	Home / Users	R / Manage Users				Help ?
	User Prof	file   Add			Commit & Continue	🗈 Commit 🛞 Cancel
	Identity	Communication Profile	Membership Conta	cts		
	Basic Info		User Provisioning Rule			
	Address		Gael Provisioning Rule.			
	LocalizedN	lame	* Last Name :	FLAvoice	Last Name (in Latin alphabet characters) :	FLAvoice
			* First Name :	Voicemail-1	First Name (in Latin alphabet characters) :	Voicemail-1
			* Login Name :	66991@dr220.com	Middle Name :	Middle Name Of User
			Description :	Description Of User	Email Address :	Email Address Of User
			Password :		User Type :	Basic v
			* Confirm Password :		Localized Display Name :	Localized Display Name Of Use
			Endpoint Display Name :	Endpoint Display Name Of Use	Title Of User:	Title Of User
			Language Preference :		Time Zone :	×

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#### 6.3.2. Communication Profile

Select the **Communication Profile** tab, followed by **Communication Profile Password** to display the **Comm-Profile Password** pop-up box.

For **Communication-Profile Password** and **Re-enter Comm-Profile Password**, enter the desired password for the virtual SIP user to use for registration.

AUra® Syste	Manager 8.1	🗸 🥕 Eler	nents 🗸 🔹 Services 🗸   Widge	ets v Shortcuts	• (	Search	• ≡
Home	User Management						
U	Home / Users / Manag	e Users					Help ? 🔺
	User Profile   Ad	d			🗈 Commit & Continue	🗈 Commit	⊗ Cancel
	Identity Commu	nication Profil	Comm-Profile Password		×		
	Communication Profile Pa	assword	Comm-Profile Password :		]		Options ~
	PROFILE SET : Primary	×.:			j	Domain 🛊	7
		50		0			
	PROFILES	]	* Re-enter Comm-Profile Password :		0	_	
				Generate Comm	n-Profile Password		
					Cancel OK		
				-			

Select **Communication Address** from the left, followed by **New** to display the **Communication Address Add/Edit** pop-up box.

For **Type**, select "Avaya SIP". For **Fully Qualified Address**, enter and select the SIP user extension and domain name to match the login name from **Section 6.3.1**.

Aura® Syste	em Manager 8.1 ▲ Users ∨	🗲 Elen	nents v 🛛 🏾 🏶 Services v	Widgets v	Shortcuts v		Search	🜲 🗮   admin
Home	User Management							
U	Home≙ / Users R / Manage I	Jsers						Help ? 🔶
	User Profile   Add				E) Commi	t & Continue	🗈 Commit	© Cancel
	Identity Communic	ation Profile	Momhorehin Co	ntacte				
	Communication Profile Pass	sword	Communication Address *	Add/Edit		×		Options V
			*Fully Qualified Address:	66991	@ dr220.com	~]	Domain \$	. <u>A</u>
	PROFILES							
					Cancel	ок		

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Aura® Sys	tem Manager 8.1	占 Users 🗸	🖌 🗲 Elem	ents 🗸 🏟 Services 🗸   Widgets 🗸 Sho	ortcuts v	
Home	User Manage	ement				
U	Home / Users	s 8 / Manage	Users			
	User Pro	file   Add				
	Identity	Communic	ation Profile	Membership Contacts		
	Communica	tion Profile Pas	sword	SIP Registration		
	PROFILE S	ET : Primary	~	* Primary Session Manager:	DR-SM Q	0
	PROFILES			Secondary Session Manager:	Start typing Q	
	Session M	lanager Profile		Survivability Server:	Start typingQ.	0
	CM Endpo	bint Profile		Max. Simultaneous Devices :	Select	
					Jecu	
				Block New Registration When Maximum Registrations Active? :		
				Application Sequences		
				Origination Sequence :	DR220-CM-APP-Sequence	¥.
				Termination Sequence :	DR220-CM-APP-Sequence	U I
				Emergency Calling Application Sequence	25	
				Emergency Calling Origination Sequence :	Select	ų.
				Emergency Calling Termination Sequence :	Select	v
				Call Routing Settings		
				* Home Location :	NJ-Loc	Ŷ

Select **CM Endpoint Profile** from the left. For **System**, select the value corresponding to the applicable Communication Manager. For **Template**, select "9620SIP\_DEFAULT\_CM\_8\_1". For **Extension**, enter the SIP user extension from **Section 6.3.1**. Retain the default values in the remaining fields.

Aura® Sys	aya stem Manager 8.1	🔒 Users 🗸	Elem،	ents 🗸 🔅 Servi	ces v   W	/idgets v Shortcuts v	3	Search 📕 🖡 🗮 🛛 admin
Home	User Manage	ment						
U	Home合 / Users	R / Manage U	Jsers					Help ?
	User Pro	file   Add					D Commit & Continue	🖹 Commit 🛞 Cancel
	Identity	Communica	ation Profile	Membership	Contacts			
	Communical PROFILE SI	ion Profile Pass	word		* System :	DR-CM v	* Profile Type :	Endpoint
	Communic PROFILES	ation Address		Use Existi	ng Endpoints :		* Extension :	66991 🖵 💆
	Session M	anager Profile			* Template :	9620SIP_DEFAULT_CM_8_1 Q	* Set Type :	9620SIP
	CM Endpo	int Profile		s	Security Code :	Enter Security Code	Port:	IP Q
	Messaging	Profile		Voice	Mail Number:		Preferred Handle :	Select v
				Calculate I	Route Pattern :		Sip Trunk :	aar
					SIP URI :	Select v	Delete on Unassign from User or on Delete User :	
				Override End Lo	ooint Name and calized Name :		Allow H.323 and SIP Endpoint Dual Registration :	

Repeat Section 6.3 to add the desired number of virtual SIP users for handling of FLAvoice voicemail, wakeup, and combined room status and minibar. In the compliance testing, two SIP users were created for voicemail, two for wakeup call, and two for room status and minibar, as shown below.

Session Mana	ger User Management				
Home合 / Users	ର୍ମ / Manage Users				
Search		Q			
© View	Edit → New	훢 Duplicate 🛍 Delete Mo	ore Actions 🗸		
	First Name 🛊 🔻	Surname 🛊 🤋	Display Name 🛊 🔻	Login Name 🛊 🔻	SIP Handle 🛛
	SIP 2	Avaya	Avaya, SIP 2	66002@dr220.com	66002
	Voicemail-1	FLAvoice	FLAvoice, Voicemail-1	66991@dr220.com	66991
	Voicemail-2	FLAvoice	FLAvoice, Voicemail-2	66992@dr220.com	66992
	Wakeup-1	FLAvoice	FLAvoice, Wakeup-1	66993@dr220.com	66993
	wakeup 1				
	Wakeup-2	FLAvoice	FLAvoice, Wakeup-2	66994@dr220.com	66994
	Wakeup-2 RoomBar-1	FLAvoice FLAvoice	FLAvoice, Wakeup-2 FLAvoice, RoomBar-1	66994@dr220.com 66995@dr220.com	66994 66995

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#### 6.4. Administer Session Manager Entity

Select **Elements**  $\rightarrow$  **Routing**  $\rightarrow$  **SIP Entities** from the top menu to display the **Routing** tab, followed by the applicable SIP entity for Session Manager from the left pane (not shown), in this case "DR-SM". The **SIP Entity Details** screen is displayed.

Aura® Sys	tem Manager 8.1	💄 Users 🗸	🗲 Elements 🗸	Services 🗸	Widgets ~	Shortcuts v	Search
Home	Routing						
R	SIP En General	tity Det	ails			Commit	Cancel
			* Name:	DR-SM			
			* IP Address	10.64.101.238			
			SIP FQDN				
			Туре	Session Manage	r 🔻		
			Notes	TLT DR SM			
		Ou Minimu Cr	Location utbound Proxy Time Zone m TLS Version edential name	DR-Loc America/New_Yo Use Global Setti	▼ ork ng ▼	<b>v</b>	

Scroll down to **Listen Ports** sub-section and verify that the transport protocol used by FLAvoice is specified in the list, in thise case "UDP". Also verify that the corresponding **Endpoint** column is checked, as shown beow.

lanage	r 8.1	/ Liemer	ils V 🐨 Services	<ul> <li>Widgets</li> </ul>	Shortcuts ∨	Search
Routin	g					
iste	n Ports					
Add	Remove					
Item	s 🤁					
- I	isten Ports	Protocol	Default Domain	Endpoint	Notes	
	5060	TCP 🔻	dr220.com ▼	1		
	5060	UDP V	dr220.com ▼	4		
	5061	TLS 🔻	dr220.com ▼	1		
	iste	anager 8.1 touting isten Ports Add Remove Items 2 Listen Ports 5060 5060 5061	inager 8.1 touting isten Ports Add Remove Items Listen Ports Protocol 5060 TCP T 5060 UDP T 5061 TLS T	anager 8.1 touting isten Ports Add Remove Items	Inager 8.1 Touting isten Ports Add Remove Items Listen Ports Protocol Default Domain Endpoint 5060 TCP ▼ dr220.com ▼ ♥ 5060 UDP ▼ dr220.com ▼ ♥ 5061 TLS ▼ dr220.com ▼ ♥	Inager 8.1 Touting isten Ports Add Remove Items Listen Ports Protocol Default Domain Endpoint Notes S060 TCP ▼ dr220.com ▼ S060 TLS ▼ dr220.com ▼ Com ♥ Com ♥

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## 7. Configure Global BHS FLAvoice

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

- Launch FLAvoice
- Administer PBX
- Administer channel functions
- Administer mailboxes
- Administer wakeup call
- Administer room status and minibar

### 7.1. Launch FLAvoice

From the FLAvoice server, double-click on the **FLAvoice** icon shown below, which was created as part of installation.



The **FLAvoice** screen below is displayed, where "Avaya DevConnect Certification" is the customer name picked up from the applied license file as part of installation.

Select Files  $\rightarrow$  Unlock Access to Settings from the top menu and enter the appropriate credentials in the subsequent screen (not shown) to unlock settings. The FLAvoice screen is displayed again and updated to allow access to settings.

Select **File**  $\rightarrow$  **Settings** from the top menu.

ELAvoice	
Files Reports Wake-Up Call Weather Forecast Emergency	Help
	Avava DevConnect Certification
	<< type here information about access >>
- CHANNEL INFORMATION (Activating channel SIP 3 from 8)	Music on Hold Voice Occupation Multi-level Polling Channels Last Calls Menus Usage Messages
	0.9 -

### 7.2. Administer PBX

The **Settings** screen is displayed. Select the **PBX** tab. For **PBX Model**, select the value shown below. Retain the default values in the remaining fields and click **Configure SIP parameters**.

ettings - v.9.4.7         Hotel - Express Check-out       Hotel - Room Hygienization       Hotel - Emergency Calls       Hotel - Integration with PMS       Hotel - Call Accounting       Ho         SNMP       Tools via IP       Hotel - Broadband Internet       Hotel - Room Status and Minibar       Hotel - Room Service       Hotel - Wake-up Call       Hotel - Weal         Messages Loop       Security Module       Music on Hold       Pop-up Notification       Call queuing       Fax Mail and Server       Outside Line Request	itel - Ta ther For	ke My Tray   Apps   recast
Messages, Notifications and E-Mails   Messages and Alarms   General settings   Pre-Paid Telephony   Access Control   Polling   Technical Suppo PBX   Channel Functions   Mailboxes   Auto-Attendant   Redirections   Main Window and Owner   Voice Channels	irt IVR	
PBX model (ordered by AVAYA model Avaya Aura Communication Manager v.8.1 (SIP)		2
Does not accept multi-function channels. Analog extensions connected to the PBX may require that they be configured as "LED" for their Message Waiting Indicator (MWI) to work correctly. Version certified by Avaya DevConnect. PBX accepts control of MWI via SIP NOTIFY.	^	Set up PBX Integration
	*	Configure SIP parameters
Dialing type     Use tone dialing for redirection.     Flash time:     450 ms (originally: 450 ms)     [Recommended: 100 ms]     [C Use pulse dialing to transfer and resume calls.		
Pause time: 1200 ms (originally: 1200 ms) Dutside line access code:		
Out-of-band Caller ID Information Settings		
Show number in tab names.		

The **SIP account settings** screen is displayed. For **SIP Proxy**, enter the IP address of the Session Manager signaling interface. For **UDP Port**, enter "5060". In the channel entries subsection, enter the extension and password for each virtual SIP user from **Section 6.3**. Retain the default values in the remaining fields.

SIP	account settings -	v 9 4 7			
511					
	F	'BX: AVAYA model Avaya /	Aura Communicati	on Manager v.8.1	(SIP)
	SIP Proxy (IPv4):	10.64.101.238			
	Port	50.00			
	1.010	5060			
	Transport:	UDP 💌			
	Listen ID:			1	
	Listen i F.				
	Outbound Proxy:				
	Realm:				
	ID 1/ 0071				
	IP port for CSTA:	5060			
⊢ Di	aling detection				
$\overline{\mathbf{v}}$	Accept DTMF diali	ng.			
$\square$	Accept dialing via I	RFC 2833.			
	Accept SIP INFO a	ialing.			
	Channel	Extension number	Pass	word	Authentication ID
►	1	66991	123	456	
	2	66992	234	567	
	3	66993	345	5/8	
	4	66994	456	789	
		66332	56/	890 450	
	7	00330	123	400	
	8				
	DEC to be used by	SIP extensions (only 1 can	be in use at a tim	e)	
ſ		 ▼ IBe	commended: G71	1.1	
	ioneo, jorana		oonnondoa, ar i	1	
			OK		

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#### 7.3. Administer Channel Functions

The **Settings** screen is displayed again. Select the **Channel Functions** tab to display the screen shown below.

	e e l'une e l'une en l'une	in an and hu	
Hotel	- Express Check-out   Hotel - Room Hygienization   Hotel - Emergency Calls   Hotel - Inte	egration with PMS   Hot	tel - Call Acco
SNMP	Tools via IP Hotel - Broadband Internet Hotel - Room Status and Minibar Hotel - Roo	om Service Hotel - Wa	ake-up Call
Message	s Loop   Security Module   Music on Hold   Pop-up Notification   Call queuing   Fax Mail	and Server Outside I	Line Request
Messages,	Notifications and E-Mails   Messages and Alarms   General settings   Pre-Paid Telephor	y Access Control F	olling   Tech
BY Chann	el Functions Mailhover Auto Attendant Pedirectione Main Window and Owner	Voice Channele	- 1
DX chain	Inaliboxes   Auto-Auteridant   Redirections   main window and owner	voice channels	
	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (9	SIP)	
CHANNEL	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel	SIP) Language	
CHANNEL 1	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English	
CHANNEL 1 2	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Lanquaqe English English	
CHANNEL 1 2 3	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English English English	
CHANNEL 1 2 3 4	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English English English English	
CHANNEL 1 2 3 4 5	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English English English English English	
CHANNEL 1 2 3 4 5 6	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English English English English English English	
CHANNEL 1 2 3 4 5 6 7	PBX Model: AVAYA model Avaya Aura Communication Manager v.8.1 (S Function of the channel CHANNEL WITH NO FUNCTION ASSIGNED YET CHANNEL WITH NO FUNCTION ASSIGNED YET	SIP) Language English English English English English English English	

Click the **Function of the channel** field for the first channel, and select the value shown in the screen below from the associated drop-down list. Repeat as necessary for remaining channels.

In the compliance testing, the first two channels corresponded to the two virtual SIP users in **Section 6.3** for handling of voicemail; the next two channels corresponded to the two virtual SIP users in **Section 6.3** for handling of wakeup call, and the last two channels corresponded to the two virtual SIP users in **Section 6.3** for handling of room status and minibar.

Hotel -	Express Check-out   Ho	tel - Room Hygieniz	zation   Hotel -	Emergency Calls	Hotel - In	egration with	PMS   He	otel - Call A	ccountin
SNMP	Tools via IP   Hotel - Bro	adband Internet	Hotel - Room St	atus and Minibar	Hotel - Ro	om Service	Hotel - W	ake-up Cal	Hotel
Messages	Loop   Security Module	Music on Hold	Pop-up Notifica	tion Call queui	ng   Fax Ma	il and Server	Outside	e Line Requ	est
Messages, N	lotifications and E-Mails	Messages and Al	arms   Genera	I settings   Pre-	Paid Telepho	ny Access	Control	Polling   T	echnical
ax Channe	Functions Mailboxes	Auto-Attendant	Redirections	Main Window a	and Owner ]	Voice Chann	iels		
	76- 5			6		(	- 10. 		
	PBX M	odel: AVAYA model	l Avaya Aura Co	mmunication Ma	nager v.8.1 (	SIP)		2	
	PBX M	odel: AVAYA model	l Avaya Aura Co	mmunication Ma	nager v.8.1 (	SIP)		2	
CHANNEL	PBX M	odel: AVAYA model Function of th	l Avaya Aura Co ne channel	mmunication Ma	nager v.8.1 (	SIP)	aqe	]	
CHANNEL	PBX M	odel: AVAYA model Function of th 2e mail + Auto-att	l Avaya Aura Co <u>ne channel</u> 'endant (incon	mmunication Ma ning)	nager v.8.1 (	SIP) Lanqua Englis	aqe sh		
HANNEL 1 2	PBX M Void Void	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att	l Avaya Aura Co he channel endant (incon endant (incon	mmunication Ma ning) ning)	nager v.8.1 (	SIP) Langua Englis Englis	aqe sh sh		
CHANNEL 1 2 3	PBX M Void Void Wake-up Call and	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att Wake-up Progra	I Avaya Aura Co he channel iendant (incon iendant (incon imming (incor	mmunication Ma ning) ning) ning and outg	nager v.8.1 ( oing)	SIP) Langua Englis Englis Englis	aqe sh sh sh		
CHANNEL 1 2 3 4	PBX M Void Void Wake-up Call and Wake-up Call and	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att Wake-up Progra Wake-up Progra	I Avaya Aura Co he channel lendant (incon lendant (incon amming (incor amming (incor	mmunication Ma ning) ning) ning and outg ning and outg	nager v.8.1 ( oing) oing)	SIP) Langua Englis Englis Englis Englis	aqe sh sh sh sh	-	
CHANNEL 1 2 3 4 5	PBX M Void Void Wake-up Call and Wake-up Call and Ro	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att Wake-up Progra Wake-up Progra om Status and M	I Avaya Aura Co he channel tendant (incon amming (incor amming (incor linibar (incor	mmunication Ma ning) ning) ning and outg ning and outg ing)	nager v.8.1 ( oing) oing)	SIP) Lanqua Englis Englis Englis Englis Englis	aqe sh sh sh sh sh	-	
CHANNEL 1 2 3 4 5 6	PBX M Void Void Wake-up Call and Wake-up Call and Ro Ro	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att Wake-up Progra Wake-up Progra om Status and M om Status and M	I Avaya Aura Co he channel tendant (incon tendant (incon amming (incor amming (incor linibar (incom	mmunication Ma ning) ning) ming and outg ming and outg ing) ing)	nager v. 8.1 ( oing) oing)	SIP) Langua Englis Englis Englis Englis Englis	aqe sh sh sh sh sh sh	-	
CHANNEL 1 2 3 4 5 6 7	PBX M Void Void Wake-up Call and Wake-up Call and Ro Ro CHANNE	odel: AVAYA model Function of th ce mail + Auto-att ce mail + Auto-att Wake-up Progra Wake-up Progra om Status and M om Status and M EL WITH NO FUN	I Avaya Aura Co he channel tendant (incon tendant (incon amming (incor amming (incor linibar (incor linibar (incor JCTION ASSIC	mmunication Ma ning) ning) ming and outg ning and outg ing) ing) SNED YET	nager v.8.1 ( oing) oing)	SIP) Lanqua Englis Englis Englis Englis Englis Englis	aqe sh sh sh sh sh sh sh		

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### 7.4. Administer Mailboxes

From the **Settings** screen, select the **Mailboxes** tab to display the screen below. Click **Mailboxes Settings**.

Settings - v.9.4.7
Hotel - Express Check-out       Hotel - Room Hygienization       Hotel - Emergency Calls       Hotel - Integration with PMS       Hotel - Call Accounting       Hotel - Take My Tray       Apps         SNMP       Tools via IP       Hotel - Broadband Internet       Hotel - Room Status and Minibar       Hotel - Room Service       Hotel - Wake-up Call       Hotel - Weather Forecast         Messages Loop       Security Module       Music on Hold       Pop-up Notification       Call queuing       Fax Mail and Server       Outside Line Request         Messages, Notifications and E-Mails       Messages and Alarms       General settings       Pre-Paid Telephony       Access Control       Polling       Technical Support IVR         PBX       Channel Functions       Mailboxes       Auto-Attendant       Redirections       Main Window and Owner       Voice Channels
Mailboxes Settings

Follow reference [3] to create a mailbox for each staff and guest station from **Section 3**. Set **Type of the extension** to "guest" for guest stations and to "service" for staff stations, as shown below.

	allbox	Enabled	Extension	Extension is digital	Password	User's full name	Type of the extension	Language	Bilingual pe
. [	63001	V	63001			Avaya Analog	guest 👻	English 👻	
-	65001		65001		65001	STAFF	service	English	
	66002	1.1	00000		8		0 0 0		

#### 7.5. Administer Wakeup Call

From the **Settings** screen, select the **Hotel** – **Wake-up Call** tab to display the screen below. Configure the **Wake-up call settings** sub-section as desired.

In the **How to alarm if the guest doesn't answer the wake-up call** sub-section, check **Call the extension**, and enter the staff extension from **Section 3** as shown below. Retain the default values in the remaining fields.

Wake-up call settings         Attempts to set the alarm clock:         3       -         Number of rings for wake-up call:       4         4       -         Number of rings for wake-up call:       4         4       -         9       -         1       Recommended: 3         1       Interval (min) for reinforcement call         Image: the set on puter       Image: the set on puter         Image: the set on puter       Image: the set on puter	How to alarm if the guest doesn't answer the      Alarm is independent of the PBX identificat      Send an e-mail to the operator.     Addresses:      Call the extension: 65001      Print a warning at the default printer.     Print a warning only if the operator     Send SMS to:      Alarm depends on the PBX identification i     Define alarm dependent on the      Groups of extensions for the Wake-up call      Assign group      Mailbox types (guest, service, transit, businne     Assign type      Wake-up calls report	wake-up call tion in the network.  Set alternative extension  doesn't answer the wake-up alarm call.  the network.  PBX identification in the network  Set the wake-up call for a group  Set the wake-up call for a group  Set the wake-up call for a group
Wake-up self test  Enable wake-up self test.  Voice-mail's group number:  Wake-up call options	Erase report	Special settings

#### 7.6. Administer Room Status and Minibar

From the **Settings** screen, select the **Hotel – Room Status and Minibar** tab to display the screen below. Click **Room Status and Minibar Settings**.

tings - v.9.4.7	1				1
Messages Loop Secu	urity Module   Music on Hold   P	op-up Notification Call	queuing Fax Mail and	Server Outside Line Req	luest
Messages, Notifications a	nd E-Mails   Messages and Alar	ms   General settings	Pre-Paid Telephony A	Access Control   Polling	Technical Support IVR
PBX Channel Functions	Mailboxes Auto-Attendant	Redirections   Main Win	dow and Owner Voice	e Channels	
Hotel - Express Check-out	lotel - Room Hygienization   Hote	el - Emergency Calls   H	lotel - Integration with PM	IS Hotel - Call Accountin	g   Hotel - Take My Tray   Apps
NMP   Tools via IP   Hotel - Br	oadband Internet Hotel - Room	Status and Minibar	otel - Room Service   Ho	otel - Wake-up Call   Hotel	- Weather Forecast
		2.6			
Room Status and Min	ibar Settings				

#### 7.6.1. Room Status

The **Configure Room Status and Minibar** screen is displayed. In the **Room Status** subsection, check **Enable Room Status** and retain the default values in the remaining fields. Select **Define voice files for room status feedback**.

om Status	
Enable Room Status.     How the housekeeper informs about Room Status	
Explicitly dialing available codes.     Maximum code length:	Define voice files for room status feedback
C Choosing room statuses from voice menu.	Define menu with Room Status options
<ul> <li>Always accept Room Status irrespectively of the apartment being checked-in or checked-out.</li> <li>Only accept Room Status if the apartment is checked-in.</li> </ul>	Accept only 1 single room status posting per call.

The **Voice file settings for Room Status** screen is displayed next. Follow reference [3] to create desired room status and corresponding voice files. In the compliance testing, three room status entries were created as shown below.

Voice file	settings for Room Status - v.9.4.	7	
		Set the codes for room status below, as well as the respective voice file	
Code	Description	Voice file	Excli
1	Clean and vacant	C:\Program Files (x86)\FLAvoice\Sound Files\Phrases for Room status\Clean and Vacant.wav	
2	Clean and occupied	C:\Program Files (x86)\FLAvoice\Sound Files\Phrases for Room status\Clean and Occupied.wav	
3	Dirty and vacant	C:\Program Files (x86)\FLAvoice\Sound Files\Phrases for Room status\DIV.wav	

#### 7.6.2. Minibar

The **Configure Room Status and Minibar** screen is displayed again. In the **Minibar** subsection, check **Enable Minibar** and retain the default values in the remaining fields. Select **Define voice files for Minibar Products feedback**.

Room Status	
Enable Room Status.     How the housekeeper informs about Room Status     C Explicitly dialing available codes.	Define unice files for room status feedback
Maximum code length:	
C Choosing room statuses from voice menu.	Define menu with Room Status options
<ul> <li>Always accept Room Status irrespectively of the apartment being checked-in or checked-out.</li> <li>Only accept Room Status if the apartment is checked-in.</li> </ul>	C Accept only 1 single room status posting per call.
Minibar	
✓ Enable Minibar.	Define voice files for Minibar Products feedback
Maximum code length: 1 🕂 Maximum quantity length: 1 🕂	
Always accept Minibar irrespectively of the apartment being checked-in or checked-out.	🔽 Accept only 1 single minibar posting per call.
C. Only accent Minibar if the anattment is checked in	

The **Voice file settings for Minibar products** screen is displayed next. Follow reference [3] to create desired minibar products and corresponding voice files. In the compliance testing, two minibar entries were created as shown below.

			Set the codes for products below, as well as their voice files	
Code	Product	Price	Voice file (singular)	
1	Chocolate bar	0	C:\Program Files (x88)\FLAvoice\Sound Files\Products for Minibar\Chocolate bar.wav	C:\Progra
2	Bottle of water	0	C:\Program Files (x88)\FLAvoice\Sound Files\Products for Minibar\Bottle of water.wav	C:\Progra

### 8. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Communication Manager, Session Manager, and FLAvoice.

From the System Manager web-based interface, select **Elements**  $\rightarrow$  **Session Manager**  $\rightarrow$  **System Status**  $\rightarrow$  **User Registrations** (not shown) to display the **User Registrations** screen.

Verify that all virtual SIP users from **Section 6.3** are registered, as shown below with a check in the **Registered Prim** column.

S	essi	on Manage	er										
	1000	on manage											
U	Js	er Re	gistration	าร									
Sel	lect r	ows to send	notifications to device	s. Click on Deta	ils column for a	complete							
reg	gistra	ition status.											
													Custo
	1			( <u> </u>	AST	Device		. [Tallhaals]	c of 0.26 AM			14040000	
	3.6.0	- Do	Evport	Lorco Uprodu	TOP	POD							~~ L ~
	Vie	ew • De	etault Export	Force Unregis	Noti	ifications: Red	Reload *	Fallback	43 01 9.20 AM			Advanc	eu sea
8	Vie Iter	ns 💝 S	Show All	Force Unregis	Noti	ifications: Red	Reload +	Failback	43 01 9.20 AM			Fi	lter: E
8	Vie Iter	ew 🔸 De	show All T	Force Unregis	ster Noti	ifications:	Reload +	Failback	43 01 9.20 AM			Fi	lter: E
8	Vie Iter	ew • De ns 2 S Details	Address	Force Unregis	Last Name	Actual Location	IP Address	Remote Office	Shared Control	Simult. Devices	AST Device	Fi Registe Prim	lter: E red Sec
8	Vie Iter	ew ▼ De ns & S Details ▶Show	Address	First Name	Last Name Avaya	Actual Location	IP Address 192.168.200.148	Remote Office	Shared Control	Simult. Devices	AST Device	Registe Prim	Iter: E red Sec
8	Vie Iter	w • De ns & S Details • Show • Show	Address A 66002@dr220.com 66991@dr220.com	Force Unregis	Last Name Avaya FLAvoice	Actual Location NJ-Loc DR-Loc	IP Address 192.168.200.148 10.64.101.205	Remote Office	Shared Control	Simult. Devices	AST Device	Fi Registe Prim	Iter: E
8	Vie Iter	w • De ns 2 S Details • Show • Show • Show	Address A 66002@dr220.com 66991@dr220.com	Force Unregis First Name SIP 2 Voicemail-1 Voicemail-2	Last Name Avaya FLAvoice FLAvoice	Actual Location NJ-Loc DR-Loc DR-Loc	IP Address 192.168.200.148 10.64.101.205 10.64.101.205	Remote Office	Shared Control	Simult. Devices 1/1 1/1 1/1	AST Device	Fi Registe Prim	Iter: E red Sec
8	Vie	w  Details Details Show Show Show Show Show	Hoult         Export           show         All           Address	First Name SIP 2 Voicemail-1 Voicemail-2 Wakeup-1	Last Name Avaya FLAvoice FLAvoice FLAvoice	Actual Location NJ-Loc DR-Loc DR-Loc DR-Loc	IP Address 192.168.200.148 10.64.101.205 10.64.101.205	Remote Office	Shared Control	Simult. Devices 1/1 1/1 1/1 1/1	AST Device	Fi Registe Prim	Iter: E
8	Vie	w  Details Details Show Show Show Show Show Show Show	Hault         Export           ihow         All           Address         ▲           66002@dr220.com           66992@dr220.com           66993@dr220.com           66993@dr220.com           66994@dr220.com           66994@dr220.com	First Name SIP 2 Voicemail-1 Voicemail-2 Wakeup-1 Wakeup-2	Last Name Avaya FLAvoice FLAvoice FLAvoice FLAvoice	Actual Location NJ-Loc DR-Loc DR-Loc DR-Loc DR-Loc DR-Loc DR-Loc	IP Address 192.168.200.148 10.64.101.205 10.64.101.205 10.64.101.205	Remote Office	Shared Control	Simult. Devices 1/1 1/1 1/1 1/1 1/1 1/1 1/1	AST Device	Fi Registe Prim V (AC) V	Iter: E
8	Vie Iter	w  Details Details Show Show Show Show Show Show Show Show	Hault         Export           ihow         All           Address	First Name SIP 2 Voicemail-1 Voicemail-2 Wakeup-1 Wakeup-2 RoomBar-1	Last Name Avaya FLAvoice FLAvoice FLAvoice FLAvoice FLAvoice	Actual Location NJ-Loc DR-Loc DR-Loc DR-Loc DR-Loc DR-Loc DR-Loc DR-Loc	IP Address 192.168.200.148 10.64.101.205 10.64.101.205 10.64.101.205 10.64.101.205	Remote Office	Shared Control	Simult. Devices 1/1 1/1 1/1 1/1 1/1 1/1 1/1	AST Device	Fi Registe Prim	Iter: E red Sec

## 9. Conclusion

These Application Notes describe the configuration steps required for Global BHS FLAvoice to successfully interoperate with Avaya Aura® Session Manager and Avaya Aura® Communication Manager. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

### 10. Additional References

This section references the product documentation relevant to these Application Notes.

- **1.** *Administering Avaya Aura*® *Communication Manager*, Release 8.1.x, Issue 6, March 2020, available at <u>http://support.avaya.com</u>.
- **2.** Administering Avaya Aura® Session Manager, Release 8.1, Issue 4, May 2020, available at <a href="http://support.avaya.com">http://support.avaya.com</a>.
- 3. FLAvoice USER'S MANUAL, 9.3.1, available from http://www.globalbhs.com/suporte/.

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