

Avaya Solution & Interoperability Test Lab

Application Notes for DuVoice with Avaya IP Office Server Edition 9.1 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for the DuVoice hospitality messaging system to interoperate with Avaya IP Office Server Edition 9.1. In the compliance testing, DuVoice provided automated attendant, Property Management System feature such as check-in, check-out guest, voicemail, wake-up call, do not disturb, name and user profile template change and room clean status.

The Avaya IP Office Server Edition configuration consisted of two Avaya IP Office systems, a primary Linux server at the Main site and an expansion IP500V2 at the Remote site that were connected via Small Community Network trunks. In the compliance testing, DuVoice emulated four SIP users on Avaya IP Office primary server. The four SIP users were registered with Avaya IP Office primary server, and configured as members of a hospitality hunt group. Incoming calls to the hospitality hunt group were delivered over an available virtual SIP user to DuVoice. DuVoice used DevLink and Web Service from the local Avaya IP Office system to provide hospitality features such as wake-up call, check-in, check-out guest, change name, and update room's cleanness and using short code to turn on and off Message Waiting Indicator, and Do Not Disturb on the Avaya IP Deskphones.

Readers should pay attention to Section 2, in particular the scope of testing as outlined in Section 2.1 as well as the 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 the DuVoice hospitality messaging system to interoperate with Avaya IP Office Server Edition 9.1. In the compliance testing, DuVoice used the SIP User, DevLink, and Configuration Web Service interfaces from Avaya IP Office to provide automated attendant, check in, check out guest, voicemail, wake-up call, do not disturb, name and user profile template change and room clean status.

The Avaya IP Office Server Edition configuration consisted of two Avaya IP Office systems, a primary Linux server at the Main site and an expansion IP500V2 at the Remote site that were connected via Small Community Network (SCN) trunks.

In the compliance testing, one DuVoice for server was deployed. The SIP User interfaces were used by DuVoice to provide basic hospitality features such as automated attendant, voicemail, wake-up call, and room clean status indication. DuVoice emulated four virtual SIP users on Avaya IP Office. Four virtual SIP users were registered on primary IP Office, and configured as members of a hospitality hunt group. Incoming calls to the hospitality hunt group were delivered over an available virtual SIP user to DuVoice. DuVoice used the SIP packets to determine the type of call and hence the service to provide, such as automated attendant for incoming trunk calls, voicemail coverage for redirected call, voicemail, room clean status, and wake-up call scheduling for internal calls. DuVoice used DevLink and Configuration Web Service interfaces with the primary IP Office system to monitor users at the Main site, and the DevLink interface with the expansion IP Office system to monitor users at the Remote site.

For the voicemail coverage scenarios, voicemail messages were recorded and saved on DuVoice. The short codes were used to activate/deactivate the Message Waiting Indicator (MWI), and to set the divert setting for Do Not Disturb when requested manually by the guests.

DuVoice provide Property Management System (PMS) features via a Hospitality Tester windows application and a InnerDesk web-based interface. In the compliance testing, Hospitality tester and InnerDesk were used to initiate hospitality requests such as check-in and check-out, set up wake up call. Two user rights templates were set up on Avaya IP Office for use with check-in and check-out guests, and DuVoice used the Configuration Web Service to send updates to Avaya IP Office on guest name and user rights template as part of the check-in and check-out process.

2. General Test Approach and Test Results

The feature test cases were performed manually. Calls were made from a simulated PSTN and from local users to the hospitality hunt group, with different options selected for extension transfer, voice message retrieval, and wake-up call schedule. The DuVoice Hospitality Tester and InnerDesk were used to manually initiate check-in and check-out requests, to monitor the room and wake-up call status, and to set Do Not Disturb.

The serviceability test cases were performed manually by disconnecting and reconnecting the Ethernet connection to DuVoice.

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.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability testing.

The feature testing focused on verifying the following on DuVoice:

- Registration of SIP users.
- Automated attendant navigation for incoming trunk calls, such as transfer to guests and staff.
- Voicemail recording, logging, and retrieval, with proper message waiting lamp activation/deactivation for users with digital, and IP telephone types.
- Activate and de-activate Do Not Disturb feature for guests using short codes on Hospitality tester application.
- Scheduling and delivering of wake-up call requests, including retried attempts and escalation to staff.
- Handling of maid codes as indication of room clean status from hospitality hunt group calls.
- Use of Configuration Web Service, DevLink to update guest name and user rights template associated with check-in, check-out, and move requests from InnerDesk/Hospitality tester.

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

2.2. Test Results

All test cases were executed with the following observation:

• There is no announcement about caller ID in voice message since there is no information about caller in the log.

2.3. Support

Technical support on DuVoice can be obtained through the following:

- **Phone:** (425) 250-2393
- Email: <u>support@duvoice.com</u>

3. Reference Configuration

The IP Office Server Edition configuration used in the compliance testing consisted of a primary Linux server at the Main site, and an expansion IP500V2 at the Remote site, with SCN trunks for connectivity between the two systems. Each IP Office system has connectivity to the PSTN, for testing cross systems PSTN scenarios.

As shown in **Figure 1** below, one DuVoice server was deployed with SIP Users and a Web Service connection to the primary IP Office system, and DevLink connections to primary and expansion IP Office system. In the compliance testing, varieties of Avaya IP Deskphones are used for Staff, Front Desk and Guest as shown below.

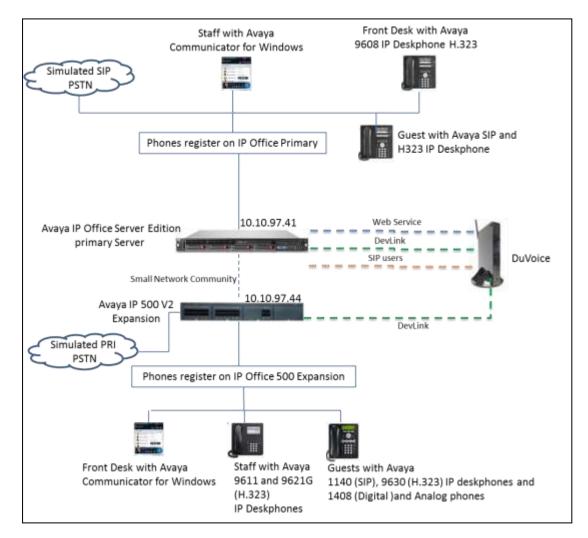


Figure 1: DuVoice with IP Office Server Edition Primary Linux Server and 500 V2 Expansion Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment	Software
Avaya IP Office Primary Server (Linux based)	9.1 SP 7
Avaya IP Office on IP500 V2 Expansion	9.1 SP7
Avaya 9608, 9611 and 9621G (H323)	6.6
Avaya Communicator for Windows (SIP)	2.1.2.75
Avaya 9630 (H323)	3.22
Avaya 1140E SIP	4.4.25
Avaya 1408 Digital Deskphone	R45
DuVoice for Server	5.30.8

5. Configure Avaya IP Office

This section provides the procedures for configuring IP Office system on Avaya IP office Manager.

5.1. Security Settings

This section describes the steps to update security settings which are required for Name and User Rights changes. Using Avaya IP Office Manager, select File \rightarrow Advance \rightarrow Security Settings ...

In Security Settings tree, select Services \rightarrow Configuration. Select Unsecure + Secure for Service Security Level as show in below, click OK to save changes.

🜃 Avaya IP Office Manager for Serv	er Edition - Security Adı	ministration - DevCon IPO Sev1 [9.1.4.5 build 1] [Admini	istrator] 📃 🗖	×
File Edit View Help				
🗄 🚨 🖻 📲 🔜 🔛 🔜 🛝 🗠	/			
Security Settings	Service: Conf	līguration		>
Security Security General System (1) Configuration System Status Interface Configuration System Status Interface Configuration Web Services External Rights Groups (12)	Service Details Name Host System Service Port Service Security Level Service Access Source	Configuration DevCon IPD Sev1 50804, 50805 Unsecure + Secure Unsecure Only Unsecure + Secure Secure, Low Secure, Medium Secure, High		
			OK Cancel Help	

Select **System**; click on **Unsecured Interfaces** tab, verify that **DevLink** is enabled as shown below:

System: De	vCon IPO	Sev1			≝ - × √ <	>
System Details Unse	cured Interfaces	Certifi	cates			
System Password	•••••		Change		^	
Voicemail Password		•		Change	1	
Monitor Password		•		Change	Use Service User	
Application Controls						
TFTP Server	🗹 🚺 Prog	ram Coo	de 🗌 🛛 TAP	I		
TFTP Directory Rea	ad 🗌 🛛 Dev	Link	🖂 🚹 НТТ	P Directory Read	⊿ <u>1</u>	
TFTP Voicemail	☑ <u>↑</u>		HTT	P Directory Write		
Application Support						
Application		Active	Limitations			
Legacy Voicemail		 Image: A second s				
Voicemail Lite		 Image: A second s				
Upgrade wizard		×				
TAPI		×				
one-X Portal Client						
IP Office Directory S	ervices	 Image: A second s				
DevLink		 Image: A second s				
IP DECT		#	Can't view any [Directory entries		
Network Viewer		× .				

Click on **Certificates** tab, an click on the **View** button to open certificate detail. Check the expiration date. In this example, it is Feb 15, 2022 as shown below:

R Certificate	\times								
General Details Certification Path									
Certificate Information									
Windows does not have enough information to verify this certificate.									
Issued to: DevConIPOSev1									
Issued by: ipoffice-root-DevConIPOSev1.avaya.com									
Valid from 2/15/2015 to 2/15/2022									
Install Certificate Issuer Statement									
ОК									

5.2. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the screen in the right pane, where **DevCon IPO Sev1** is the name of the IP Office system.

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 DuVoice. Note that IP Office can support SIP on the LAN1 and/or LAN2 interfaces, and the compliance testing used the LAN1 interface.

File Edit View Tools Help	2 A	
DevCon IPO Sev1 System	DevCon IPO Sev1	
Configuration	DevCon IPO Sev1*	📸 • 😬 🗙 🗸 < >
Configuration Configuration Configuration Operator (3) Solution User (37) Group(4) Operator (20) Time Profile(0) Operator (20) Op	System LAN1 LAN2 DNS Voicemail Telephony Directory Services System Events SMTP LAN Settings YoIP Network Topology IP Address 10 10 97 41 IP Address 10 10 97 41 IP Mask 255 255 240 Number Of DHCP IP Addresses 5 🚍 DHCP Mode	
	OK	Cancel Help
Bort Code (11) Service (0) Def Incoming Call Route (5) Def IP Route (1) Service (0) Def IP Route (1) Service (1) Def Ars (2) Def Location (1) Def Authorization Code (1) Def Code IPOS Exp		

5.3. Administer SIP Registrar

Select the **VoIP** sub-tab. Make certain that **SIP Registrar Enable** is checked, as shown below. and Enter a valid **Domain Name** for SIP endpoints to use for registration with IP Office. In the compliance testing, the **Domain Name** was left blank, so the LAN IP address was used for registration. Also, ensure that depending on the setup either **UDP** or **TCP** is enabled.

System LAN1 LAN2 DNS Vo	oicemail Telephony	Directory Servi	ces System Events	SMTP SMDR	Twinning	Codecs			
LAN Settings VolP Network Topology									
✓ H323 Gatekeeper Enable									
✓ Auto-create Extn	✓ Auto-create User			H323 R	emote Extn	Enable			
✓ SIP Trunks Enable									
✓ SIP Registrar Enable									
Auto-create Extn/User				SIP Re	mote Extn Er	nable			
Domain Name									
	UDP	UDP Port 50	060	Remote UDP	Port 5060	* *			
Layer 4 Protocol	✓ ТСР	TCP Port 50	060 📮	Remote TCP	Port 5060	* *			
	TLS	TLS Port 50	061 🌻	Remote TLS	Port 5061	* *			
Challenge Expiry Time (secs)	10								

5.4. Administer SIP Extensions for DuVoice

From the configuration tree in the left pane, browse to IP Office primary server **DevCon IPO Sev1**, right-click on **Extension**, and select **New** \rightarrow **SIP Extension** from the pop-up list to add a new SIP extension. Under the **Extn** tab, enter the desired digits for **Base Extension**, and uncheck **Force Authorization**, as shown below. Retain the default values in the remaining fields.

Repeat this section to add the desired number of SIP extensions. In the compliance testing, four SIP extensions with base extensions of "26010", "26011", 26012" and "26013" were created.

Configuration	SIP Extension: 11207 26010	· × × · ·
Configuration Configuration Configuration Control Contro	SIP Extension: 11207.26010	<u>× × × ×</u>
11207 26010		22

Select the VoIP tab. For Codec Selection, select Custom and move G.711 ULAW 64K and G.711 ALAW 64K to Selected box, as shown in the screen capture. Set the DTMF Support to RFC2833/RFC4733.

Configuration		SIP Extension: 11207 26010		□· ∃ × × < :
K BOOTP (9) Solution Solution	Extrn WolfP JP Address Codec Selection	0 0 0 0 0 Custom Custom G.722 64K G.729(a) 8K CS-ACELP G.711 ALAW 64K G.711 ALAW 64K		□ Local Hold Music ■ Re-Invite Supported ■ Codec Lockdown ■ Allow Direct Media Pati
11212 26004	Reserve License	Norw.	2	_
11204 26007	Fax Transport Support	None.	*	
11215 26009	DTMP Support	RPC2833/RPC4733	٠	
11207 26010	.41			
11209 26012			ÜC	Errie Help

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5.5. Administer SIP Users for DuVoice

From the configuration tree in the left pane, right click on **User**, and select **New** from the pop-up list to add a new user. Enter desired values for **Name** and **Full Name**; leave **Password** field blank for DuVoice user. For **Extension**, enter the first SIP base extension from **Section 5.4**. Retain the default values in the remaining fields.

12	2 26010: 26010*		
User Voicemail DND Sh	ort Codes Source Numbers Telephony Forwarding Dia	al In 🗍 Voice Recording 🗍 Button Programmir 💶 💽	
Name	26010		
Password		€3	
Confirm Password			
Conference BIN			
Confirm Conference PIN			
A annual Chaban			
Account Status	JEnabled		
Full Name	DuVoice SIP Jser		
Extension	26010		
Email Address			
Locale		_	
Priority	5	T	
1 Honey			
System Phone Rights	None	•	
ACCS Agent Type	None		
[
		OK Cancel Help	
	User Voicemail DND Shu Name Password Confirm Password Conference PIN Confirm Conference PIN Account Status Full Name Extension Email Address Locale Priority	User Voicemail DND Short Codes Source Numbers Telephony Forwarding Dia Name 26010 Password	

Select the Voicemail tab, and uncheck Voicemail On, as shown below.

	26010: 26010*	📑 • 🖻 🗙 • < >
User Voicemail DND	Short Codes Source Numbers Telephony Forwarding	Dial In Voice Recording Button Programmir
Voicemail Code		🗖 Voicemail On 📥
Confirm Voicemail Code		🔲 Voicemail Help
Voicemail Email		🔲 Voicemail Ringback
		🗖 Voicemail Email Reading
		UMS Web Services
		_
C Off C Copy C	Forward C Alert	
DTMF Breakout		

Select the **Telephony** tab, followed by the **Call Settings** sub-tab. Check **Call Waiting On**, as shown below. Retain the default values in the remaining fields.

User Voicemail DND S	Short Codes Source Numbe	rs Telephony	Forwarding	Dial In	Voice Recording	Button Pr • •		
Call Settings Supervisor Setti	ings Multi-line Options C	all Log TUI						
Outside Call Sequence	Default Ring		~	Call V	Vaiting On			
Inside Call Sequence	Default Ring			Default Ring V Answer Call Waiting On Ho				Hold
Ringback Sequence	Default Ring		~	🗌 Busy On Held				
No Answer Time (secs)	System Default (15)	•		Offho	ook Station			
Wrap-up Time (secs)	2	•						
Transfer Return Time (secs)	Off	•						
Call Cost Mark-Up	100							

Select the **Button Programming** tab. Retain only the first **Appearance** button and remove all others as shown below.

Repeat this section to add a new user for each SIP extension from **Section 5.4**. In the compliance testing, four users with names of "26010, 26011, 26012 and 26013" were created.

٦	ND	Sho	rt Codes	Source	e Numbers	Telephony	Forwarding	Dial In	Voice F	Recording	Button Prog	gramming	Menu 🖡 🔸
	Button	۱	Label		Action		Action Da	ta			^	Remo	ve
	1				Appearanc	e	a=					E.P.	
	2											Edit.	
	3											0	Сору
	4												
	5											P	aste

5.6. Administer Hunt Group

From the configuration tree in the left pane, right-click on **Group** and select **New** from the popup list to add a new hunt group. This hunt group, 26000 will be used to deliver calls to DuVoice for hospitality features. Under the **Group** tab, enter desired values for the **Name** and **Extension** fields, and retain the default values in the remaining fields. Click on **Edit** in the **User List** section to add members.

Configuration	E Sequential Group DuVoice: 26000	📥 - 📓 1
BOOTP (9) Operator (3) Solution User (37) Solution Solution Marcal Short Code (52) Directory(0) Time Profile(0) Account Code(2) Solution(1) DevCon IPO Sev1 System (1) Solution(1) DevCon IPO Sev1 System (1) Solution(1) Solution(2) Solution(2)	Group Queuing Overflow Fallback Voicemail Voice Recording Announcements SIP Ring Tone Override None Image: Constraint of the second	
Short Code (11) Service (0) Service (0) Potential for the service (1) Potential for the service (1) Potential for the service (1)		Edit
💊 License (38) ⊕ 🍸 ARS (2) ⊕ 🏧 Location (1)	0	K Cancel

The **Sequential** | **Hunt Group** screen is displayed. Select all SIP users created earlier in this document, and click the **Append** button to move the selected entries to the right.

Sequential	iequential Hunt Group 26000 DuVoice - Select Members												
Filters Extn Name													
Available User	Available Users (37/37) Members (0/0)												
Name	Extn	PBX Name	P	BX Address	4		个	Order	r Enabled	Name	Extn	PBX Name	PBX Address
26008	26008	DevCon IPO Sev1	1	010.97.41									
26009	26009	DevCon IPO Sev1	1	010.97.41									
26010	26010	DevCon IPO Sev1	1	.10.97.41		I							
26011	26011	DevCon IPO Sev1	1	.10.97.41		I							
26012	26012	DevCon IPO Sev1	1	.10.97.41		I							
26013	26013	DevCon IPO Sev1	1	.10.97.41		I							
26100	26100	DevCon IPOS Exp	1	010.97.44		I							
26102	26102	DevCon IPOS Exp	1	010.97.44		I	Add Before						
26105	26105	DevCon IPOS Exp	1	010.97.44		I	A 11.50						
26109	26109	DevCon IPOS Exp	1	010.97.44		1	Add After						
26202	26202	DevCon IPOS Exp	1	.10.97.44			Append						
26203	26203	DevCon IPOS Exp	1	0.10.97.44		1	Remove						
			Γ.										

The **Sequential Group** screen is displayed again and updated with the selected members.

Configuration	E Sequential Group DuVoice: 26000	📸 - 🔛 🛛
Configuration	Group Queuing Overflow Fallback Voice Recording Announcements SIP Ring Tone Image: Constraint of the second seco	
⊕		
		dit
	OK.	Cancel

Under the **Queuing** tab, uncheck box for **Queuing On**.

Group	Queuing	Overflow	Fallback	Voicemail	Voice Recording	Announcements	SIP			
- 🗌 Qu	euing On									
Queue	Length	lo Limit	*	✓ Normali	ze Queue Length					
Queue	Queue Type Assign Call On Agent Answer V									
Calls	In Queue A	larm —								
Calls	In Queue T	hreshold	1	* *						
Analo	og Extensio	n to Notify	<none></none>	~						

Under the Voicemail tab, uncheck box for Voicemail On.

		 Announcements	SIP
Voicemail Code			/oicemail On]
Confirm Voicemail Code		Voic	email Answer Time
Voicemail Email		U V	oicemail Help
Voicemail Email		B	roadcast
Off Ocpy Forward Alert	t	🗆 U	MS Web Services

Under Voice Recording tab, Record Inbound should be None. Mailbox should be empty. Under the Announcements Tab, Announcements On should be unchecked.

5.7. Administer Short Codes

5.7.1. Administer short codes for Message Waiting Indicator

This section describe step how to setup short code to activate and de-activate MWI. From the configuration tree in the left pane, navigate to **Solutions** \rightarrow **Short Codes**. Right-click **Short Codes** and select **New** from the pop-up menu. Two short codes will need to be added, one for MWI On and another for MWI Off.

Configure the short codes as follows.

- Code: enter type in *81*N*.
- Feature: select Display Msg.
- Telephone Number: enter N''; Mailbox Msgs=1 OLD=0 Sav=0''.

Click **OK** to save changes.

Note: Create another short code, *80*N* for MWI Off, where Telephone Number field will be set to N'';Mailbox Msgs=0 OLD=0 Sav=0''.

Configuration		*81*N*: Display Msg
9 × *70*N#	Short Code	
9× *80*N*	Code	*81*N*
9 × 499; 9 × 26300;	Feature	* This Short Code is common to all systems. Display Msg
9 × FNE00 Directory(0)	Telephone Number	N";Mailbox Msgs=1 OLD=0 Sav=0"
Time Profile(0)	Line Group ID	0
⊞ 🚛 Account Code(2) ⊡ 🌆 🌆- User Rights(11)	Locale	·
E- tocation(1)	Force Account Code	
⊡≂ DevCon IPO Sev1 ⊡≂ System (1)	Force Authorization Code	

5.7.2. Short code for Operator

By default the DuVoice assigns the operator mailbox extension "0". This will be dialed for transfers to the operator, and for a Failed wakeup alert. It is required to configure a short code that will direct calls to 0 to the appropriate extension or hunt group. This will normally be the reception desk. The following example sends 0 to hunt group 26000 created in Section **5.6**.

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5.7.3. Administer short code to forward call to DuVoice hunt group number.

Create short code to dial DuVoice hunt group number.

- Type in ***67**; in **Code** field.
- Select **Dial Extn** for **Feature**.
- Type in **26000S##E** for **Telephone Number** field.

Click **OK** to save changes.

Configuration		*67;: Dial Extn
9x *52	Short Code	
9× *53*N# 9× *55	Code	*67;
9× *57*N# 9× *67;		* This Short Code is common to all systems.
9x *68;	Feature	Dial Extn
9x *70*N# 9x *71*N#	Telephone Number	260005##E
•• 9× *80*N* •• 9× *81*N*	Line Group ID	0 <u> </u>
••••••••••••••••••••••••••••••••••••••	Locale	<u> </u>
26300; 9x FNE00	Force Account Code	
Directory (0)	Force Authorization Code	

5.7.4. Administer short code to activate and de-activate Do Not Disturb

Configure the short codes as follows.

- Code: enter type in *98*N*.
- Feature: select Forward Unconditional On.
- Telephone Number: enter "@POST="N";".

Click **OK** to save changes.

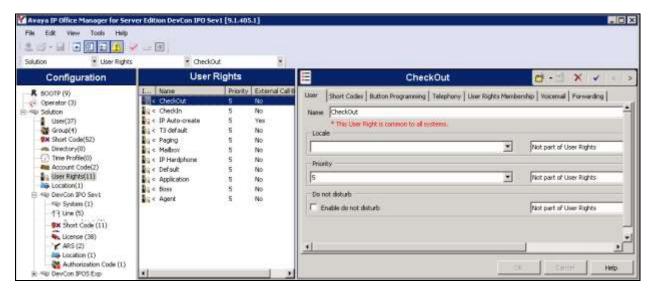
Note: Create another short code, ***99*N*** for MWI Off, where **Telephone Number** field will be set to "@POST="N";" and **Feature** is Forward Unconditional Off.

M Av	aya IP Office M	anager for	Server Editio	on De	/Con IPO Sev1 [9	.1.70)1.1]		
File	Edit View	Tools	Help						
	Solution		- Short Co	de	-	*98*	'N*	-	2 🖻 - 🗶 🔺 🖳 📰 🛕 🖌 🧭
	Configu	uration			Short Code		×		*98*N*: Forward Unconditional On
C2867 1	BOOTP (5)			I	Code	^	Sh	ort Code	
<u> </u>	Operator (3) Solution			9x - 9x -	< 0 < *98*N*		c	ode	*98*N*
	User(40) Group(4)			9x -	*68;				* This Short Code is common to all systems.
	Short Code	(54)		9x -	: *23		F	eature	Forward Unconditional On $\qquad \qquad \lor$
	Directory(0) Time Profile	e(0)			< *67; < *80*N*		Т	elephone Number	"@POST="N";"
	🐜 Account Co 🌆 User Rights			9x-	*81*N*		L	ine Group ID	0 ~
	Location(1)			-	FNE00		L	ocale	~
	DevCon IPC				< 26300; < *99*N*		F	orce Account Code	
	- 17 Line (5)			-	*71*N#		F	orce Authorization Co	de 🗌

5.8. Administer User Rights

From the configuration tree in the left pane, right-click on **User Rights**, and select **New** to create a new user rights template. Enter a desired **Name** to designate user rights for guests in the check-in state.

Repeat this section to create the desired number of user rights templates for guests in various states. In the compliance testing, two user rights templates with names of "**CheckIn**" and "**CheckOut**" were created.



5.9. Administer Guest Phones

From the configuration tree in the left pane, right-click on **Extension**, and select **New** \rightarrow **SIP Extension** from the pop-up list to add a new SIP or H.323 extension; H.323 in this case. Under the **Extn** tab, enter available extension number for **Base Extension**. Enter **Phone Password** such as 1234 and retype password again in **Confirm Phone Password**. Click **Ok** to save changes.

Configuration	1	H323 Extension: 11215 26008	0+1 × + + +
E He SeviCon IPO Sevil E He Sevicen (1)	A Los Web		
141 (F) Line (9)	Extension 30	11215	-
III - Control Unit (8) G de Estimation (16)	Base Extension	2600B	
- 11200 26002	Phone Possward		
11212 26004	Confirm Phone Raisword		
11204 26007	Caller Display Type	[=	
- 11200 26000	Reset Volume After Calls	F	
11207 25010 11209 26011 11209 26011	Device Type	Finan Playbe	
11230 26013	Lacation	featomater -	3
- 11234 2660 K	Folberk As Repote Worker	huto	-
11213 20403	Hodue	la l	
11202 26606	Port	-	
 Doer (22) NoLiver 25004 25004 	Disable Speakerphone	r.	ī
26006 26006 			Cr. Carlot New .

Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. From the configuration tree, right-click on **User**, select **New** from the pop-up list to add a new user. Enter desired values for **Name** and **Full Name**. For **Extension**, enter the extension number that was added earlier in this section. Enter **User Password** such as 123456 and retype password again in **Confirm Password**. Retain the default values in the remaining fields.

Configuration		26008: 26008	🖆 • 🖆 🗙 🖌 < >
	User Voicemail DND	Short Cades Source Numbers Telephony Forwarding Dial In Voice Reco	rding Button Programming Menu Prog • •
I Control Unit (8)	Ivane	120005	
Extension (16)	Password	•••••	
11200 26082	Confirm Password	[•••••	_
11205 26006	Conference PIN		
11204 26007 11215 26008	Confirm Conference PIN		
- 11206 26009	Account Status	Enabled	-
11208 26011	Full Name		
- 11210 26013	Extension	26008	
11211 26014	Email Address		
11213 26603 11201 26604	Locale		2
11202 26605	Priority	5	*
	System Phone Rights	None	•
- In NoUser - 26004 26004	ACC5 Agent Type	None	
26006 26006	Profile	Basic User	-
26007 26007		F Receptionist	
26009 26009		🗖 knable Boltphone	<u>.</u>
- 26011 26011 - 26012 26012			Concell Help

Select the Voicemail tab, and uncheck Voicemail On, as shown below.

Z				<user:0>: *</user:0>		× ✓ < :				
User	Voicemail	DND	Short Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button Pr 🔹 🕨	
Voicen	nail Code							Voicemail On		
Confin	m Voicemail	Code						Voicemail Help	` I	
Voicen	nail Email							Voicemail Ringb	ack	

Select the **Forwarding** tab:

- Check boxes for Forward On Busy, Forward On No Answer and Forward Internal Calls.
- Type in the short cut to DuVoice hunt group that was configured in Section 5.7.3.

Configuration	1	26008: 26008"	₫・₫ X √ < >
Account Code(2)	User Voicenal DND Short	t Codes Source Numbers Telephony Forwarding Dial In Voice Reco	rding Button Programming Menu Prog \star 🕨
Liser Rights(11) Location(1) BevCon IPO Sev1 BevCon IPO Sev1	Block Forwarding	E Contraction of the second se	
E T Line (5) E Carbol Unit (8) E Carbol Unit (8) Extension (16)	Follow Me Number		
User (22)	Forward Unconditional	Г Г	
- 25006 25006 - 25007 25007 - 25008 25008	Forward Number		
- 5m 26009 26009 - 5m 26010 26010 - 5m 26011 26011	Furward Driterial Calls	E.	
- 26012 26012 - 26013 26013 - 7 26600 Agent 26600	Forward On Busy Forward On No Answer	9	
	Forward Number	[*67] _	
- 26605 Agent 26605 - 26606 Agent 26606 - 26607 Agent 26607	Forward Internal calls	u	
 26608 Agent 26608 26609 Agent 26609 26610 Agent 26610 26002 Extra26002 	-		OK Cancel Help

Click on **Save** icon to save all the changes to server.

5.10. Administer Analog Guest phone

Note: Guest rooms cannot be hidden from the directory.

From the configuration tree in the left pane, click on **Extension**, select an available Analogue Extension. In this example below extension 25 is selected, type in an available extension number for **Base Extension**.

		Exte	nsion		xxx III		Ana	logue Extension: 25 26100	📑 - 🖻 🛛	< < >
ID JIO	Extension	Module	Port	▲	Extn	Analogue				
\$\$ 501	26101	5	1		Extens			25		- 1
<i>4</i> ¢ 502	26502	5	2		LACENS	101112		1		
Analog	ue Extensi	00			Base E:	xtension		26100		
					Caller [Display Type		On	•	1
<i>4</i> 27		BP2	3							-
<i>4</i> 28 🖉		BP2	4		Device	Туре	199	Analogue Handset		
<i>4</i> 29		BP2	5				0	,		_
<i>4</i> 0 30		BP2	6		Locatio	n		System (2: Belleville)	•	1
<i>4</i> 031		BP2	7							·
4 2 32		BP2	8		Module	:		BP2		
25	26100	BP2	1		Port			1		
26	26111	BP2	2		1.010			r		
H323 E	Rension									
♥ 8011	26102	0	0						OK Cancel	Help
🍬 8012	26103	0	0	-						

Select the Analogue tab. It is recommended to use the following settings for analog phone:

- **Standard Telephone:** is checked. This will give a phone a positive disconnect.
- Message Waiting Lamp Indication Type: ON is selected.

\Xi Ana	📥 🗕 🕅 🗙 🛛 🗸 🗠 🗸	
Extn Analogue		
- Equipment Classification	Flash Hook Pulse Width	
Quiet Headset	☑ Use System Defaults	
O Paging Speaker	Minimum Width	20 🌲 ms
Standard Telephon	Maximum Width	
O Door Phone 1	Waximum Wigth	500 🔶 ms
O Door Phone 2		
O IVR Port	 Message Waiting Lamp Indica 	tion Type
O FAX Machine	On	
O MOH Source		
	Hook Persistency	100

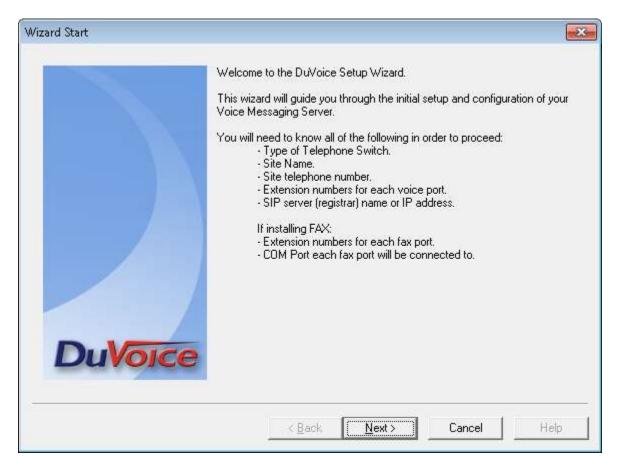
Click **OK** to save changes.

6. Configure DuVoice

This section provides the procedures for configuring DuVoice.

6.1. Administer Setup Wizard

From the DuVoice server, select Start \rightarrow All Programs \rightarrow DuVoice \rightarrow System Configuration. The Wizard Start screen is displayed upon initial access. Click Next.



The **Site Information** screen is displayed next. Enter desired values for the required fields, and click **Next**.

	Enter the required site inform in if you are using any type of Site Information	of FAX ap	plication.	
	Name:	Avay	a Inc	×
	Site telephone number:	(80	0 J. 55512121	×
	Fax telephone number:	(].	
	Address:		City:	
	123 ABC Drive	×	Lettersville	×
	State or Province:		Zip or Postal Code	
	XY	×	09090	*
DuVoice	* Items required.			
Duvoice				

The **PBX Model** screen is displayed next. Select **Avaya** \rightarrow **Avaya IP Office** from the listing, and click **Next**.

	Select the telephone system the DuVoice will be connected to. If you do not see your particular telephone system listed select Other.
DuVoice	 Avaya Aura Communications Manager Avaya Communications Manager with SIP Enablement Services Avaya Aura SM CS1000 Avaya IP Office Avaya Definity Other Cisco Dialogic PIMG Mitel NEC ShoreTel Siemens SIP Gateway Panasonic
Contraction of the second s	4

The **MWI Method** screen is displayed. Select **Inband using a feature or shortcode** and retain rest of the default values.

MWI Method		
	Choose the method by w cleared.	hich message waiting lights will be set and
	C SIP Notify	
	C TAPI	
	C SMDI	
	Inband using a feature	e or shortcode
	C HITP	
	_ Inband codes	
	Enter the code used to s an E for the extension nu automatically added to th For example: *81*E* or *4	
	Set code	Clear code
DuVoice	*81*E*	*80*E*
8 	< <u>B</u> ack	Next > Cancel Help

The **SIP Information** screen is displayed next. For **Server IP Address or DNS name**, enter the IP address or DNS name of IP Office as mention in Section **5.2**, and click **Next**.

IP Information	Enter the server name or IP address ports will be registered; this is option be the server name or IP address of	of the SIP registrar with which the SIP al but recommended. Typically, this will the IP PBX.
	Server IP Address or DNS name:	10.10.97.41
DuVoice	< <u>B</u> ack	Cancel Help

The **Voice Ports** screen is displayed. For **Voicemail Huntgroup**, enter the hospitality hunt group extension from **Section 5.6**. Assign each SIP base extension from **Section 5.5** to an available **Port**, as shown below.

In the compliance testing, four DuVoice ports were configured to correspond to the four SIP extensions created on IP Office.

Click Next, followed by Finish in the subsequent screen to complete the wizard.

	later in Systi Voicemail H	and will help with resolving integration issues. ot know the extensions leave them blank, they can be entered em Configuration. luntgroup: 26000 crement extension numbers based on line 1.
	Number	Extension
	Port 1	25010
	Port 2	26011
	Port 3	26012
	Port 4	26013
DuVoice	< [III

6.2. Administer Connectors

From the DuVoice server, select Start \rightarrow All Programs \rightarrow DuVoice \rightarrow System Configuration. The System Configuration screen is displayed. Select Features \rightarrow Connectors... from the top menu. Select IP Office \rightarrow User Configuration, enter the following information:

- Location: select Default Location.
- Check **Enabled** checkbox.
- IP address: enter IP Office primary Linux Server, in this case it is 10.10.97.41
- Service User Name: enter user name to login primary server, it is Administrator.
- Service Password: enter password for above user name.
- IP Office Server Edition checkbox is checked.
- **Driver Installed:** verified the installed Version is 9.1.7.

Click **OK** to save changes. This connector is used to establish a Configuration Web Service connection to IP Office, for update of guest user names and user rights template

Connectors			
System Details Cisco	User Configuratio	n	
	Location	Default Location	🔽 Enabled
□ IP Office User Configuration	IP address	1 . 10 . 97 . 41	
LDAP ⊕ PMS Pass-through	Service User Name	Administrator	
	Service Password	DevConnect@123	
SIEMENS	TCP/IP Port	50805 Driver Installed Version: 9.1.7	
SIP UNIVERGE 3C	Retries	3 install	
	🔽 IP Office Server B	Edition	

Repeat the same step for Expansion system:

Connectors					X
System Details	User Configuratio				
Cisco					
HTNG Server	Location	Exp IP0	-	🔽 Enabled	
- HTTP Name Service					
🚊 IP Office	IP address	1: . 10 .	97 . 44		
User Configuration		·			
LDAP	Service User Name	Administrator			
PMS Pass-through					
Metaswitch	Service Password	DevConnect@1	23		
ShoreTel	TCP/IP Port	50805	- Driver Installed		
SIEMENS	I CEVIE For	100000	V : 017		
SIP	Retries	3 🗾	Version: 9.1.7		
UNIVERGE 3C	Hounds	° <u>⊤</u>	for stall		
			Install		
	IP Office Server B	Edition			
		100 (100 (100 (100 (100 (100 (100 (100			

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6.3. Administer Location

From the DuVoice server, select Start \rightarrow All Programs \rightarrow DuVoice \rightarrow System Configuration. The System Configuration screen is displayed. Select Locations \rightarrow New Location... from the top menu.

Password Define Por	rts Integrations	Locations Features Tools	; Help		
Device	Extension	New Location	PBX Template	Default Mailbox	Location
5IP Line 1	26010	Open Location File	5IP_IPOFFICE	991	Default Location
5IP Line 2	26011	Delete Location File	5IP_IPOFFICE	991	Default Location
5IP Line 3	26012	20000	-SIP_IPOFFICE	991	Default Location
5IP Line 4	26013	26000	SIP_IPOFFICE	991	Default Location
4					

Follow the screen to create a new location for 500v2. Below screenshot is an example of location created for **Exp IPO** Expansion during compliance test.

Exp IPO		×
General Info Outdial Restrictions Outdial Translations Default Mailboxes Greeting Mailbox 991 Operator Mailbox 0 Default Fax Mailbox 9000 Connections PMS Instance ID 1	Outbound Port Access Share Locations Availble Locations: □ Default Location □ Exp IPO	Sharing Locations Select up to ten additional locations to share visibility for call routing transfers and directory look ups. Click the box next to the locations to be shared with this location. Or, Click on the "All Locations" button below to share visibility with all locations on the system.
	Save	Save As Cancel Help

6.4. Administer Hospitality

From the **System Configuration** screen shown in **Section 6.3**, select **Features** \rightarrow **Hospitality** from the top menu. The **Hospitality Configuration** screen is displayed. Select **Maid Codes** from the left pane, to display the **Maid Codes** screen in the right pane.

Check the desired **PMS Digit** to be used, and enter the desired **Display Text**. The digits can be used by the maids to indicate the room clean status, upon dialing into the hospitality hunt group and selecting the appropriate option.

⊡ Server 1 Ma	aid Codes	
… Language Maid Codes … Phone Control ⊕. PMS … Reports … Translations	Valid codes PBX Digit Display Text O Dirty I Clean Z In progress Z Maintenance ✓ 4 Out of service 5 6 7 8 9 Protocol defaults: -no change Reset 	PBX Digit: Digit sent by the PBX or dialed by the housekeeping staff. Can only be dialed if the box is checked. Display Text: The text displayed in InnDesk. Leave blank if not used. If the first character is a number, that digit may be sent to the PMS instead of the PBX Digit. Reset: Load the default display text for a chosen PMS protocol.
	Automation On check-out, set to: Dirty Every night, set to: Dirty	Notify PMS Notify PMS

Select **Phone Control** from the left pane, to display the **Phone Control** screen in the right pane. For **PBX Type**, select "Avaya IP Office".

In the **User group restrictions / call restriction values** section (bottom half of screen), add an entry to match each user rights template in **Section 5.8**. Note that the **PBX Value** is case sensitive and must match the user rights template name in **Section 5.8**. Enter desired names for **Display Text**. In the compliance testing, two entries were created to match the two user rights template in **Section 5.8**. Click **Apply**.

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After clicking **Apply**, the new user group rights will show up in the field drop-down list for **Check-In** and **Check-out**. In the **Auto-set phone state on** section, check **Check-in** and **Check-out**, and select the corresponding drop-down values as shown below.

Hospitality Configuration				
 Server 1 General Language Maid Codes Phone Control PMS Reports Translations 	Phone Control PBX Type: Avaya IP Office Auto-set phone state on Image: Check-in: Checked In Image: Check-out: Checked Out User group restrictions / call restriction To edit an entry, left-click on it. For a	T T T T T T T T T T T T T T T T T T T	l accouting ype:none nabled:no change isabled:no change davi-specific settings utdial prefix: 470 ght-click any row to display a	menu.
	Display Text	PBX Value	PMS Value	
	Checked In Checked Out	CheckIn CheckOut		
	Active PMS: Centigram (ENCORE)			
			ОКС	ancel Apply

Retain the default values in the remaining fields

6.5. Administer Mailboxes

From the DuVoice server, select Start \rightarrow All Programs \rightarrow DuVoice \rightarrow Mailbox Administration. The Mailbox Administration screen is displayed. Select Mailbox \rightarrow Create from the top menu.

e Configuration Ma													
Distribution List	Mailbox	Extension	First name	Last n	Туре	Description	Location	COS	SDA	New messages	Last login		
Group	0	26112	Operator		Standard	Operator	Default Location	Standard	Standard	5	0000/00/00 00:00		
- Guest	991	991	System Reserved		System	Main Greetings	Default Location	System	Night Menu Action	0	0000/00/00 00:00		
QA	999	999	System Reserved		System	Disconnect	Default Location	System	Disconnect	0	0000/00/00 00:00		
	9000	9000	System Reserved		Standard	Fax Storage	Default Location	FaxMailbox	Fax Action Menu	0	0000/00/00 00:0		
System	26004	26004	Standard 26004	front	Standard		Default Location	Standard	Standard	0	0000/00/00 00:0		
· .	26006	26006	Room	006	Guest		Default Location	Guest	Standard	0	2015/25/09 10:3		
All (12)	26008	26008	Room		Guest		Default Location	Guest	Standard	7	0000/00/00 00:0		
- Settings	26014	26014	Standard 26014	staf	Standard		Default Location	Standard	Standard	0	0000/00/00 00:0		
E-Language	26100	26100	Room	Phi	Guest		Ip 500 V2	Guest	Standard	0	0000/00/00 00:0		
- Search Results	26108	26108	Standard 26108		Standard		Ip 500 V2	Standard	Standard	5	0000/00/00 00:0		
Recently Changed	26112	26112	Standard 26112	frontdesk	Standard		Ip 500 V2	Standard	Standard	4	0000/00/00 00:0		
- Recently Created	26502	26502	Room	phuong	Guest		Ip 500 V2	Guest	Standard	0	0000/00/00 00:0		

The **Create Mailbox** screen is displayed next. For **Mailbox Number**, enter the first voicemail user extension from **Section** Error! Reference source not found., in this case "26008". For **Mailbox Type**, select "Guest" for guest users, and "Standard" for front desk and staff users.

Create Based On: Mailbox Type Guest Mailbox Template AudioText	failbox Number 2600	08
	Create Based On:	
C Mailbox Template AudioText 🔄	Mailbox Type	Guest
	Mailbox Template	AudioText
	C Mailbox Template	AudioText

The Create Mailbox 26008 screen is displayed. Enter desired values for Password, First Name, Last Name and Location, and retain the default values in the remaining fields.

Mailbox 26008 [Guest] Owner Settings Advanced Address List Mailbox Statistics Message Delivery Notifications Single Digit Actions Speed and Volume	Owner Information Properties Extension COS: Password COS: First Name Details Last Name Details Greeting Options Browse Options If Hide from Directory Language set by guest If Utorial Complete Call Blocking On
	OK Cancel Apply Help

Click on Notification verify the following **Notifications** is added as shown in below screenshot:

Mailbox 26008 [Guest]		×
Mailbox 26008 [Guest]	Notification Method: Inband Templat	eving all new messages Wed Thr Fri Sat
	Add	Remove Custom
\blacksquare	OK Cancel	Apply Help

Repeat this section for all voicemail users from **Section** Error! Reference source not found., as shown below.

ile Configuration Ma													
Distribution List	Mailbox	Extension	First name	Last n	Туре	Description	Location	COS	SDA	New messages	Last login		
Group	0	26112	Operator		Standard	Operator	Default Location	Standard	Standard	5	0000/00/00 00:00		
🗄 Guest	991	991	System Reserved		System	Main Greetings	Default Location	System	Night Menu Action	0	0000/00/00 00:00		
QA	999	999	System Reserved		System	Disconnect	Default Location	System	Disconnect	0	0000/00/00 00:00		
	9000	9000	System Reserved		Standard	Fax Storage	Default Location	FaxMailbox	Fax Action Menu	0	0000/00/00 00:00		
System	26004	26004	Standard 26004	front	Standard		Default Location	Standard	Standard	0	0000/00/00 00:00		
	26006	26006	Room	006	Guest		Default Location	Guest	Standard	0	2015/25/09 10:32:		
All (12)	26008	26008	Room		Guest		Default Location	Guest	Standard	7	0000/00/00 00:00		
 Settings 	26014	26014	Standard 26014	staf	Standard		Default Location	Standard	Standard	0	0000/00/00 00:00		
E-Language	26100	26100	Room	Phi	Guest		Ip 500 V2	Guest	Standard	0	0000/00/00 00:00		
- Search Results	26108	26108	Standard 26108		Standard		Ip 500 V2	Standard	Standard	5	0000/00/00 00:00:		
- Recently Changed	26112	26112	Standard 26112	frontdesk	Standard		Ip 500 V2	Standard	Standard	4	0000/00/00 00:00		
- Recently Created	26502	26502	Room	phuong	Guest		Ip 500 V2	Guest	Standard	0	0000/00/00 00:00		

6.6. Startup Server

From the DuVoice server, select Start \rightarrow All Programs \rightarrow DuVoice \rightarrow Activity Monitor. The Activity Monitor screen is displayed. Select Service \rightarrow Start from the top menu to start all services.

💽 Activity Monitor - sn: 🛛	10818 ver. 5.20.067	
File View Service Tools	Help	
🔲 🍸 🦯 Start		
Stop	Source Date Time	Summary
E-Lines	SERVICE 2015/09/29 15:52:	06 Shutdown complete.
		Þ
Start system.		Total hours: 1118 Calls in //

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of Avaya IP Office and DuVoice.

7.1. Verify DuVoice Activity Monitor

Follow the procedures in **Section 6.6** to display the **Activity Monitor** screen. Verify that ports **1**-4, **IPOffice** is in the "Idle" state, as shown below.

🗑 Activity Monitor - sn: 10818 ver. 5.30.8												
File View Service Tools Help												
All	Source	Date	Time	Summary							al	
	1	2016/06/07	11:06:27	Idle						3 3 3	4	
<u>⊨</u> -Lines	2	2016/06/07	11:11:47	Idle						3	6	
- 1: Ext: 26010	3	2016/06/07	11:09:54	Idle						3	0	
	4	2016/06/07	11:27:27	Idle						1	5	
- 2: Ext: 26011	IPOFFICE	2016/06/07	15:02:25	Idle							_	
0.5.4.00010	POP3	2016/06/07 2016/06/07	14:57:58	Not enabled.	Next	check in 300) seconds	•				
- 3: Ext: 26012	SMTP	2016/06/07	15:02:39 15:02:31	Disabled							_	
- 4: Ext: 26013	SERVICE	2016/06/07	15:02:31	Running.								
in Services	•									[Þ	
The system is running.				Total hours: 328		Calls in: 115		Calls out: 90		$\overline{\bigcirc}$	1	

7.2. Verify SIP User Integration

From a PC running the Avaya IP Office Monitor application, select Start \rightarrow Programs \rightarrow IP Office \rightarrow Monitor to launch the application. The Avaya IP Office R9 SysMonitor screen is displayed. Select Status > SIP Phone Status from the top menu.

The **SIPPhoneStatus** screen is displayed. Verify that there is an entry for each SIP extension from **Section 5.4**, that the **User Agent** is "DuVoice", and that the **Status** is "SIP: Registered", as shown below.

	JSIPPhoneStatus												
Total Configu	Total Configured: 12 Waiting 0 secs for update												
Total Registe	Total Registered: 7 Registered Status												
Extn Num	User Num	Sec	IP Address	Transport	User Agent	Licensed	SI	SIP	Status				
26009	26009	disable	0.0.0.0		UA?	No Licence			SIP: Unregistered				
26010	26010	disable	1 10.98.25	UDP	DuVoice	3rd Party IP			SIP: Registered				
26011	26011	disable	1 .10.98.25	UDP	DuVoice	3rd Party IP			SIP: Registered				
26012	26012	disable	111.10.98.25	UDP	DuVoice	3rd Party IP			SIP: Registered				
26013	26013	disable	1 .10.98.25	UDP	DuVoice	3rd Party IP			SIP: Registered				
26014	26014	disable	10.33.5.67	TCP	Avaya Vide	3rd Party IP	RU		SIP: Registered	-			
Display Opl Show A	-	egistered	C UnRegiste	red Page 1	Pri	nt Page Res	et Phone	s	Cancel				

Place an incoming call from the PSTN to the hospitality hunt group. Verify that the calling party hears the greeting announcement from DuVoice. Enter the extension of a guest user, and verify that the call is transferred to the guest user.

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7.3. Verify Configuration Web Service Integration

Open the Avaya IP Office R9 Manager – Security Administration screen. Select System from the left pane, followed by Certificates in the right pane. Verify that Offer Certificate is checked, and that Issued to contain an automatically generated string to IP Office name, in this case, it is DevCon IPO Sev1, as shown below.

System: DevCon	IPO Sev1	#+1X191	4.1.4.
Identity Castricula Offer Castricula Offer ID Castricula Chain Signature Privale Rap Iccused to Default Subject Name	F SHA256/RSA2048 2 DevContPOSev1	Set Vew Debte	4
Received Datticate (Decisis (Management Interfaces) Received Datticate Checks (Delephony Endpoint) Truated Catilicate State Installad Catilicate State Syname	None None to Class 3 Secure Server CA - G4 Class 1 International Server CA - G3	2	
	System Detail Underword Sine Identity Earthicute Differ Certificate Differ ID Certificate Chain Signature Provide Ray Isourch to Default Subject Name Isolgect Alternative Name(I) () Use different Identity Certificat Received Certificate Decks Management Interface) Received Certificate Decks Management Interface) Received Certificate Decks Management Interface) Received Certificate Decks Management Interface)	System Details Unsecured Interfaces Certificates Identity Extiticate Differ De Certificate Differ ID Certificate Chair, Signature Signature SHA256/RSA2048 Physics Rap Insued to DesCardPOSev1 Detail Subject Name Iudgest Alternative Name(I_4) Use otherest Identity Certificate for Telephony Received Extilicate Chairs Management Identity Certificate for Telephony Received Extilicate Chairs Management Identity Received Extilicate Chairs Received Extilicate Chairs Received Extilicate State	System Detail Unsecured Interlaces Cerellicates) Identity Extincate Differ Cerellicate Differ Cerellicate Dears Statuse Stat

7.4. Verify user name change and check-in/out status for guest

Use Hospitality tester to perform check in a guest for room 26008 with name Phuong MacNeil. Verify that the guest name Phuong MacNeil 26008 is updated automatically on **Full Name** field.

Image: Avoya IP Office Manager for Server Edition DevCon IPO Sev1 [9.1.405.1] File Edit View Tools Heip								
Configuration User 2000 2000			E 26008: 26008					
Deer(37) Deer(37) Directory(0) Directory(0) Directory(0) Directory(0) Directory(0) Account Code(2) User Rights(11) DevCon IPO Sev1 System (1) -{? Cher (5) Control Linit (8) Dettersion (16) User (22)	Name Basic User #26004 #26006 #26007	Extension • 26004 26006 26007	User Voicemail DND Name Password Confirm Password	Shart Codes Source Numbers Te 26003	Nephony Forwarding Diał In Voice Recording	9 Button P • (•)		
	*26008 *26009 *26010 *26011 26012 26012	26008 26009 26010 26011 26012	Conference PIN Confirm Conference PIN Account Status Full Name Extension Enall Address	Enabled				
	 Agent 26600 Agent 26601 Agent 26603 Agent 26604 	26013 26600 26601 26603 26604		MacNell Phuong 26008				
Short Code (11) Service (0) Service (0) Jincoming Call Route In Route (1) License (38)	 Magent 26605 Magent 26605 Magent 26607 Magent 26607 Magent 26608 Magent 26609 Magent 26610 	26605 26607 26608 26609 26609 26610	Locale Priority System Phane Rights ACCS Agent Type	5 None Pione	2 2 2			
ARS (2) Location (1) Authoritation Code Authoritation Code	Extra6002	26002			OC Carear	Help		

PM; Reviewed: SPOC 8/16/2016 Solution & Interoperability Test Lab Application Notes ©2016 Avaya Inc. All Rights Reserved. 38 of 40 DuVoice-IPO91 Verify user right template CheckIn is updated on **Working hours User Rights** field on IP Office as part of the check-in process.

Configuration	🗄 26008: 26008 🛗 📲 🔀 🖌 🗸 🗸	: >
Directory(0) Time Profile(0) Account Code(2) User Rights(11)	User Voicemail DND Short Codes Source Numbers Telephony Forwarding Dial In Voice Recording Button Programming M	••
Location(1) DevCon IPO Sev1 System (1) ⊕ ¬₹ Line (5) ⊕ ¬ Control Unit (8) ⊕ ¬ Control Unit (8)	Enable Softphone Enable one-X Portal Services Enable one-X TeleCommuter Enable Remote Worker Enable Communicator Enable Communicator	
	Enable Mobile VotP Client Send Mobility Email Ex Directory Web Collaboration Device Type Unknown IP handset	
- 20012 26012 - 26013 26013 - 2600 Agent 26600 - 2600 Agent 26601 - 26601 Agent 26603 - 26604 Agent 26604 - 26605 Agent 26605 - 26605 Agent 26607 - 26608 Agent 26608	User Rights User Rights User Rights view Working hours User Rights Working hours User Rights Working hours User Rights CheckIn Out of hours User Rights	
	OK Cancel Help	,

8. Conclusion

These Application Notes describe the configuration steps required for DuVoice to successfully interoperate with Avaya IP Office Server Edition 9.1. All feature and serviceability test cases were completed with an observation noted in **Section 2.2**.

9. Additional References

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

- 1. *IP Office Manager 9*, Document 15-601011 Issue 9.14 0, September 2015, available at <u>http://support.avaya.com.</u>
- 2. http://support.duvoice.com/dv530/pbx/avaya/ipofficev91/usingsip

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