

Avaya Solution & Interoperability Test Lab

Application Notes for BBX Technologies Vuesion Multimedia Contact Center Power Outdial with Avaya IP Office 9.0 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for BBX Technologies Vuesion Multimedia Contact Center Power Outdial to interoperate with Avaya IP Office 9.0. BBX Technologies Vuesion Multimedia Contact Center is a contact center management solution, and Power Outdial is an optional feature that enabled outbound campaign and automatic placement of outbound calls on behalf of available agents.

In the compliance testing, BBX Technologies Vuesion Multimedia Contact Center Power Outdial used the TAPI interface to support initiation and control of outbound campaign calls from the agent desktops.

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 BBX Technologies Vuesion Multimedia Contact Center Power Outdial to interoperate with Avaya IP Office 9.0. BBX Technologies Vuesion Multimedia Contact Center is a contact center management solution, and Power Outdial is an optional feature that enabled outbound campaign and automatic placement of outbound calls on behalf of available agents.

In the compliance testing, BBX Technologies Vuesion Multimedia Contact Center Power Outdial used TAPI 2 in third party mode to support initiation and control of outbound campaign calls from the agent desktops.

The call list was uploaded by the administrator as part of the outbound campaign configuration. Agents have the Vuesion Client application running on the desktops. When an agent became available for an outbound campaign call, Power Outdial presented the agent with the customer information, and the agent used the desktop to initiate the outbound call. The agent used the telephone connected to IP Office to manually hear the call progress tones, and used the desktop to manually control the outbound campaign call.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. The outbound campaign calls were automatically launched by Power Outdial for available agents. Necessary user actions such as release were performed manually from the desktops and/or telephones to test the various call scenarios.

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

The verification of tests included use of Vuesion Client application for proper preview and control of outbound campaign calls. A sanity test of Vuesion Reports was performed to verify proper reporting of basic outbound campaign calls in the Call Detail Activity report.

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 from Power Outdial:

- Use of TAPI functions to support initiation and control of outbound campaign calls via agent desktops.
- Proper handling of outbound campaign call scenarios including preview, hold/reconnect, blind/attended transfer, blind/attended conference, drop, incomplete number, invalid number, no route, ring no answer, voicemail coverage, busy, end of call list, multiple agents, and switching from outbound to inbound and vice versa.
- Proper reporting of basic outbound campaign call scenarios including answer, drop, hold/reconnect, blind/attended transfer, and blind/attended conference.

The serviceability testing focused on verifying the ability of Power Outdial to recover from adverse conditions, such as disconnecting and reconnecting the Ethernet connection to the Vuesion server and to the Vuesion Client.

2.2. Test Results

All test cases were executed and verified. The following were observations on Power Outdial from the compliance testing:

- The application can support multiple outbound agents, however, only one agent at a time can preview and launch an outbound campaign call. Once launched, then the next customer record from the call list will be delivered to the next available agent for preview.
- The out-of-box outbound campaign script does not allow for agent to cancel out of the outbound call preview.
- Agent desktop displayed status of CONNECTED before the outbound campaign call was answered at the PSTN.
- Depending on the specific transfer and conference scenario, the transfer-to/conference-to agent desktop with an active preview may not reflect the incoming call and may need to answer/drop the call using the telephone. Upon completion of the transfer/conference call, the active preview screen at the transfer-to/conference-to agent is then updated with agent prompted to submit a resolution, despite the outbound call hasn't been launched.
- For the hold/unhold scenario, two entries were produced in the Call Detail Activity report with status of Start Start and Unhold.
- When a customer drops from the outbound campaign call first, then there may not be any reporting of the call in the Call Detail Activity report.
- For all transfer and conference scenarios, one of the reported entries in Call Detail Activity contained status of Start Start.
- For an outbound campaign call that was dropped during or after an Ethernet disruption to the server, there is no reported entry in the Call Detail Activity report. Furthermore, the agent will be presented with the same customer record for preview post server recovery.

2.3. Support

Technical support on Power Outdial can be obtained through the following:

- **Phone:** (800) 930-4229, option 4
- Email: <u>bbxservice@bbxtech.com</u>
- Web: <u>www.bbxtech.com</u>

3. Reference Configuration

The configuration used for the compliance testing is shown below.

These Application Notes assume the basic Vuesion integration with IP Office using SIP User, TAPI, and DevLink are already in place according to [2] and will not be described.

In the compliance testing, the Vuesion Reports application was running on the supervisor PC, and the Vuesion Client application was running on the supervisor and agent desktops. The Power Outdial feature launched outbound campaign calls on behalf of two agent users shown below.

Device Type	Extension
Supervisor User	20035
Agent Users	20031, 20032

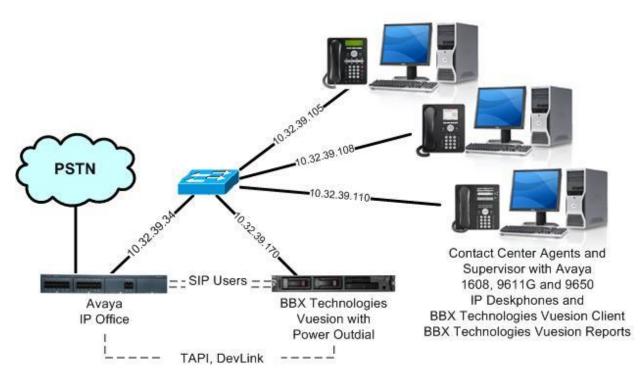


Figure 1: Compliance Testing Configuration

4. Equipment and Software Validated

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

Equipment/Software	Release/Version
Avaya IP Office on IP500V2	9.0 SP1 (9.0.100.845)
Avaya 1616 IP Deskphone (H.323)	1.343A
Avaya 9611G IP Deskphone (H.323)	6.3037
Avaya 9650 IP Deskphone (H.323)	3.212A
 BBX Technologies Vuesion on Windows 2012 R2 Standard Power Outdial Avaya DevLink (devlink.dll) Avaya IP Office TAPI2 Driver (tspi2w_64) 	V9.0 V9.0 1.0.0.5 3.2.29
BBX Technologies Vuesion Client	V9.0
BBX Technologies Vuesion Reports	V8.3

Testing was performed with IP Office 500 V2 R9.0, but it also applies to IP Office Server Edition R9.0. Note that IP Office Server Edition requires an Expansion IP Office 500 V2 R9.0 to support analog or digital endpoints or trunks. IP Office Server Edition does not support TAPI Wave or Group Voicemail.

5. Configure Avaya IP Office

This section provides the procedures for configuring IP Office.

From a PC running the IP Office Manager application, select **Start** \rightarrow **All Programs** \rightarrow **IP Office** \rightarrow **Manager** to launch the application. Select the proper IP Office system, and log in with the appropriate credentials.

The **Avaya IP Office Manager** screen is displayed. From the configuration tree in the left pane, right-click on **Group** and select **New** to add a new group. This group will be used to route incoming calls from the PSTN to the calling number used in the outbound campaign calls.

Enter desired values for **Name** and **Extension**. For **Ring Mode**, select "Rotary" from the dropdown list. Retain the default values in the remaining fields. In the **User List** section, add the same virtual SIP users as in the tenant group from reference [2] as members.

🜃 Avaya IP Office Manager IP	9500V2 [9.0.100.845]			
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IP500V2 Group	29003 BB			≈ 1
IP Offices	🛃 Seque	ential Group <hunt group<="" th=""><th>):0>: * ☐ →]</th><th>≝ X ✓ < ></th></hunt>):0>: * ☐ →]	≝ X ✓ < >
	Group Queuing Overflow F	Fallback Voicemail Voice Recording	Announcements	
⊕	Name	BBX Outdial	Profile	Standard Hunt Group
	Extension	29004	Ex Directory	
🗈 ⇒ Control Unit (4)	Ring Mode	Rotary	No Answer Time (secs)	System Default (15)
 	Hold Music Source	No Change	•	
🖨 🎆 Group (3)	Ring Tone Override	None		
29002 BBX Monitor	Agent's Status on No-Answer Applies To	None	~	
29003 BBX Tenant ⊕ ¶¥ Short Code (70)	User List			
Service (0)	Extension Nam	ie 👘		
 		20041 20042		

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

File Edit View Tools Help IP500V2 IP Offices 29003 BBX Tenant IP Offices	👫 Avaya IP Office Manager IP!	500V2 [9.0.100.845]
Image: Second system (1) Group Queuing Overflow Fallback Voicemail Voice Recording Announcements Image: System (1) Voicemail Code		
Group Queening Overhow Painback Proceeding Himbolic Processing Himbolic Processin	IP Offices	Sequential Group <hunt group:0="">: * 📑 - 🔤 🗙 🗸 < ></hunt>
IP500V2 Voicemail Code IP500V2 Voicemail Code		Group Queuing Overflow Fallback Voicemail Voice Recording Announcements
f 1 line (7) Confirm Voicemail Code Voicemail Arrover Time (sets)	🖨 🖏 IP500V2 🕀 🤜 System (1)	Voicemail Code Voicemail On Confirm Voicemail Code Voicemail Answer Time (secs)
Control Unit (4) Voicemail Email Voicemail Email Voicemail Email Voicemail Email Off Copy Forward Alert UMS Web Services	 ➡ ← Control Unit (4) ➡ ◆ Extension (33) ➡ ↓ User (35) 	Voicemail Email Broadcast

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6. Configure BBX Technologies Vuesion Multimedia Contact Center Power Outdial

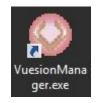
This section provides the procedures for configuring the Power Outdial feature. The procedures include the following areas:

- Launch Vuesion Manager
- Verify license
- Administer ACD groups
- Administer local extensions
- Administer tenants

The configuration of Power Outdial is typically performed by BBX Technologies technicians. The procedural steps are presented in these Application Notes for informational purposes.

6.1. Launch Vuesion Manager

From the Vuesion server, double-click the **VuesionManager.exe** icon, which was created as part of Vuesion installation.

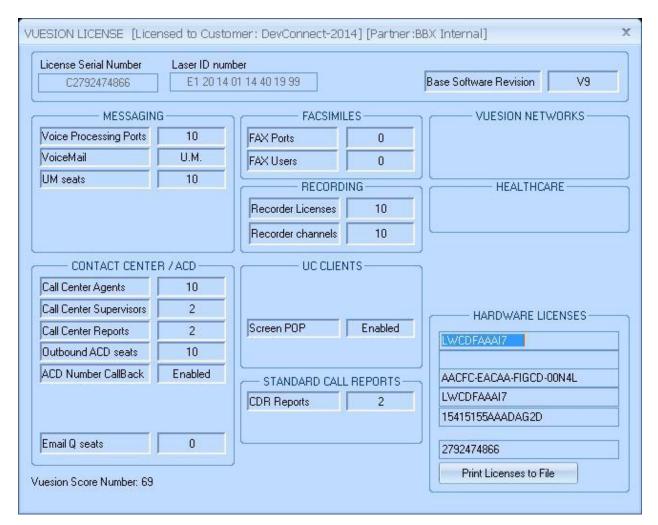


6.2. Verify License

The Vuesion Manager screen is displayed. Click on the License icon shown below.

(M) =		Vuesion	Manager - Si	te: Connections:	×
Switch Setup Me	essaging	Routing Deskto	p Clients Con	itact Center	Trace 😡 🚺 🚱
1 🗛 🔒 🖨 🔳 🗐 📮					
🚭 Switch Setup	1	X			
🖶 Messaging/IVR	4	2			
la Routing		Voice Device	Caller	Information	
👸 Desktop Clients		1			
🍓 Contact Center					

The **VUESION LICENSE** screen is displayed. In the **CONTACT CENTER / ACD** subsection, verify that there is sufficient license for **Outbound ACD seats**, as shown below.



6.3. Administer ACD Groups

From the Vuesion Manager screen shown in Section 6.2, select Contact Center \rightarrow ACD Groups from the top menu to display the SkillSets Administration screen. Add an entry for the outbound group from Section 5 by following reference [2], select the appropriate ACD members with desired skills configuration, and configure an outbound campaign with desired schedule. Note that the Queue ID and Queue Name must match the outbound group extension and name exactly from Section 5.

The screenshot below shows the values used in the compliance testing. The agents and supervisors shown in the **Multimedia Contact Center Members Assignment** sub-section were created as part of the basic Vuesion integration in reference [2], and selected as members for this outbound group.

illSets Administration	٦											
Queue ID: 29004	Queue	Name: E	3BX Outdia	ı		Pare	ent Gro	oup Name: [
Group Name 38X Outdial 38X Main		D 9004 9001	🗖 Ena	ble : <mark>Sk</mark> v Tim v Des Dut O	stination: verflow:	00 * 25 Sec *] Foi] Q 1] Ab] Ab	ngest InQ Thr rce Priority: "hreshold: andon Filter: andon Thr: Auto/Manual		40 Sec + 00 + 15 Sec + 30 15 Sec +	- Email Routing Dubject Filter: Overflow Time: OVF Destination Signed-Out OV EmailQ Thresh Longest InQ TI	Priority: 00
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								Imp	oort Re	cords	Re	estart Campaign
•			×		4		•	Add		Remove Re	efresh Scripts	Save Exit

6.4. Administer Local Extensions

From the **Vuesion Manager** screen shown in **Section 6.2**, select **Switch Setup** \rightarrow **Local Extensions** from the top menu, to display the **DIRECTORY CONFIGURATION** screen below.

Follow reference [3] to create an entry for the outbound ACD group from **Section 6.3**. For **Title**, use "Queue" for the ACD group entry, as shown below.

LOCAL USER	EATENSIU	CF CF	D : 1 H	00004
Full Name	DN #	Port#	Directory #:	29004
Ext 20031	20031	24	FullName:	BBX Outdial
Ext 20032	20032	25	Title:	Queue
Ext 20035	20035	28	PBX	
BBX Main	29001	0		
BBX Outdial	29004	0	Account:	
			Password:	
			Tenant Name:	
			Class of Service	0 -
			 Shared Statio Virtual/Single Disable SMDI Reserved Recorder Disabled 	Line Network Advertise
			FOLLOW ME OF	PTIONS
		-	Cellular #:	
			Home #:	
			Alternate #:	
		-	Alternate #: Active Forward:	

6.5. Administer Tenants

From the **Vuesion Manager** screen shown in **Section 6.2**, select **Messaging** → **Tenants** from the top menu, to display the **TENANTS/GROUPS** screen.

Select the tenant group entry from reference [2], and click **Edit Members** toward the bottom of the screen (not shown below).

Tenants/Grou	ps	Tenant/Group Definition	%
Name	ID Pwd	Name: BBX Tenant 0	
BBX Tenant	29003 29003	ID: 29003 Password: 29003 Discourt	t %
		Long Distance Call Charges 1 International Call Charge	s —
		First Minute Add. Minute First Minute Add. Minu	ite
		\$ 0 \$ 0 \$ 0 \$ 0	

The **Selected Tenant** screen is displayed next. Select the entry associated with the outbound ACD group from the **Available User List** and add to the **Tenant/Group Members List**, as shown below.

Tenant/Gro	up Members List		Availab	le Users List	
Member Name	Member Ext		Member Name	Member Ext	
Ext 20031	20031		BBX Main	29001	
Ext 20032	20032		Contraction and Contraction of Contr	15-55559597	
Ext 20035	20035				
BBX Outdial	29004				
	-				-
			<u>6</u>		1
	-	<<			-
			2		

7. Verification Steps

This section provides the tests that can be performed to verify proper configuration of IP Office and Vuesion Power Outdial.

Follow the procedure in reference [2] to launch the Vuesion Client application on an agent PC. The **Vuesion** screen below is displayed. Click on the **Login** icon from the left pane.

Home Viev	w Settings Histo	ory Applica	itions Sort										Op	tions
6 🖬 🛛	I 🔽 🔽 🖸 🛄	11				0	S. 0-		0 🛞					¥
ı	All Staff													
Staff	2	8	(::)	£	3									
in	BBX Agent1 E	BX Agent2	BBX Main	Ext 2) 1035									
-Break		NDA ASCINZ	bbxmann	Enc 2										
Coreak							-							
-PBreak	Status	Num	har	N	ame	Ti	me	Longth	Fror	n.		ID	DNI	c
	i status	Nun	iber	IN	ame	11	me	Length	FIOI	0		IU	DNI	3
Work														
t-Work rk Idle														
	Voice Queues	Queued	Longest	Active	Abandon	Handle	d Overfl	low Cal	lback	"TTA	S.L.	Msgs	Avails	Logi
Idle	Voice Queues	Queued	Longest	Active	Abandon	Handle	d Overfl	low Cal	lback	~ТТА 0:26	S.L.	Msgs	Avails 30	
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Upon logging in, the screen below pops up showing the customer information for the next outbound campaign call. Click on **Dial** to launch the call.

			_ = X
7		ABC Company 9	
Contact Information —			Previous Touch
Telephone	9088485601	Dial	
Company	ABC Compar	ny 9	
Address	21504 Crowr	n Lake Drive	Email
	Dallas		
State			Previous Resolution
	70009		
	Adam Piers	on	Previous Note
	9088485601		
9	Existing Cus	tomer •	
Scripts		Resolution	
Hello, I am calling f			
Company about our			Brief Note
promotion, would y hear more?	ou like to	Email	
		Notify By Email	
Yes No		noury by curan .	
	-	,[
http://www.bbxtech.com			
Information	allback 🔳	151:31 PM * 1/29/2014 +	
		· · · · · · · · · · · · · · · · · · ·	

Verify the screen is updated to reflect the outbound campaign call, as shown below. Follow reference [3] to enter a resolution and complete the outbound campaign call.

Contraction of the second second	0031 BBX Agent1								. 🗆
🥙 Home View	v Settings Histor	y Applications Sort						Options	0
	I 💟 🔽 🔂 🛄			<u> </u>		୨ 🕺 💟		÷	
Control	All Staff								
All Staff			Q						-
		E (3)							
) Logout	BBX Agent1 BE	3X Agent2 BBX Main	Ext 20035						
Set-Break									
2									
Set-PBreak	Status	Number	Name	Time	Length	From	ID	DNIS	
Set-PBreak	 Status Connected 	Number 908-848-5601	Name BBX Outdial	Time 13:22:04	Length 00:00:09	From ABC Company 9	Ac. 100	DNIS	
Set-PBreak				0000019000			Ac. 100	DNIS	

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Verify there is an entry reflecting the last outbound campaign call with proper information, as shown below.

-				Vuesion Rep	oorting				-	• 83
Tools Repor	rting								Abou	ut Help
Explorer 4 Call Tags	📩 Vue	esion Re	ports							
Activity Summary By Call By ANI	O Daily O Hourly		Start 12:00:01 A	End -	1/29/2014 💽 1:59:59 PM 🚖	C Show Sub-Groups	Refre	rsh (Queues Filter - OF	÷
Tenant										
Activity Summary				Call	Detail Act	tivity				
IVR										
Activity		Wednesday 1/29/2014 - Wednesday 1/29/2014 Pag								
Summary		Date / Ext. Time	Name	Call Type	ANI / Number Dialed	Name	Call Duration	DNIS	Call ID	
Mailboxes				- Type						
Activity Summary	Versetz.	29/2014 22:04 20031	BBX Agent1	Outbound	908.848.5601	ABC Company 9	00:01:33		13	
All Calls										
Activity Summary Call ID Activity								201		•
1									CAP NUM S	CRL .

8. Conclusion

These Application Notes describe the configuration steps required for BBX Technologies Vuesion Multimedia Contact Center Power Outdial to successfully interoperate with Avaya IP Office 9.0. All feature and serviceability test cases were completed with observation noted in **Section 2.2**.

9. Additional References

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

- 1. *Avaya IP Office Manager*, Release 9.0, Issue 9.01, September 2013, Document Number 15-601011, available at <u>http://support.avaya.com</u>.
- **2.** Application Notes for BBX Technologies Vuesion Multimedia Contact Center with Avaya IP Office 9.0 Issue 1.0, available at <u>http://support.avaya.com.</u>
- **3.** *Vuesion Application Server Contact Center Configuration Guide*, 01/2014 Release V9, available upon request to BBX Technologies Support.

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