

Avaya Solution & Interoperability Test Lab

# Application Notes for BBX Technologies Vuesion Multichannel Contact Center 11.3 with Avaya IP Office 10.0 – Issue 1.0

### Abstract

These Application Notes describe the configuration steps required for BBX Technologies Vuesion Multichannel Contact Center 11.3 to interoperate with Avaya IP Office 10.0. BBX Technologies Vuesion Multichannel Contact Center is a contact center management solution. The compliance testing focused on the voice integration with Avaya IP Office using the TAPI and SIP user interfaces.

In the compliance testing, BBX Technologies Vuesion Multichannel Contact Center provided routing, announcements, screen pop, call control, and call reporting by using the TAPI and SIP user interfaces from Avaya IP Office.

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 BBX Technologies Vuesion Multichannel Contact Center 11.3 to interoperate with Avaya IP Office 10.0. Vuesion is a contact center management solution. The compliance testing focused on the voice integration with IP Office using the TAPI and SIP user interfaces.

In the compliance testing, Vuesion provided routing, announcements, screen pop, call control, and call reporting by using the TAPI and SIP user interfaces from IP Office.

The SIP user interface was used by Vuesion to register virtual SIP users, to route incoming group calls via an available SIP user to Vuesion, and to provide announcements where applicable.

The TAPI 2 in third party mode was used by Vuesion to monitor and control the virtual SIP users and physical agents and supervisors, to provide screen pop and call control via the agent and supervisor desktops, and to obtain events for call reporting purposes.

The Vuesion solution consisted of the Vuesion server, Vuesion Client application, and Vuesion Reports application.

### 2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the Vuesion application, the application automatically registered the virtual SIP users to IP Office.

For the manual part of the testing, incoming calls were made to the main routing group. The Vuesion server used TAPI events to track agent states, and transferred calls to available agents using SIP REFER. Manual call controls from both the agent desktops and agent telephones were exercised to verify remaining features such as answering and transferring of calls.

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

The verification of tests included use of IP Office TAPI and SIP traces for proper message exchanges, and use of Vuesion Client application for proper call controls. A sanity test of Vuesion Reports was performed to verify proper reporting of basic 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 compliance testing included feature and serviceability areas.

The feature testing focused on verifying the following on Vuesion:

- Proper registration of virtual SIP users.
- Use of TAPI functions to monitor users and groups, route incoming calls, support call control and supervisor monitor via client desktops, and set call forwarding.
- Proper handling of call scenarios including incoming calls to the main group, screen pop, answer, hold/resume, drop, blind/attended transfer, queuing, announcements, DTMF, hot desking, park/unpark, call forwarding, supervisor monitor, outgoing call, non-ACD call, long duration, multiple agents, and multiple calls.
- Reporting of basic call scenarios including inbound, outbound, hold/resume, and drop.

The serviceability testing focused on verifying the ability of Vuesion 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 Vuesion from the compliance testing:

- The current release does not support conference actions from the Vuesion Client application.
- By design, when the transfer-to destination involved a non-Vuesion user, then none of the associated reporting entries contained the transfer-to destination number.
- After release of an unparked call via the agent desktop, the desktop reflected agent state to be available, although treated by Vuesion server to be in wrap up state and not available for subsequent calls. The workarounds include manual update of the agent state via the desktop, or perform unpark call actions from the agent telephone instead of desktop.

#### 2.3. Support

Technical support on Vuesion can be obtained through the following:

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

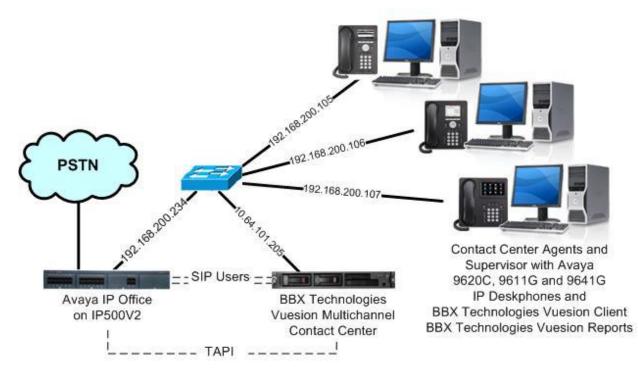
# 3. Reference Configuration

The configuration used for the compliance testing is shown in Figure 1.

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 contact center devices used in the compliance testing are shown in the table below.

Device Type	Device Number/Extension
Extensions	20031, 20035, 20051
Agent Users	20031, 20032
Supervisor User	20035



## 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	10.0.0.1.0
Avaya 9620C IP Deskphone (H.323)	3.270B
Avaya 9611G & 9641G IP Deskphones (H.323)	6.6302
BBX Technologies Vuesion Multichannel Contact Center on Windows 2012 R2 Standard	V11.3 1.0.0.44
Avaya IP Office TAPI2 Driver (tspi2w_64)	1.0.0.44
BBX Technologies Vuesion Client	V11.3
BBX Technologies Vuesion Reports	V11.3

*Compliance Testing is applicable when the tested solution is deployed with a standalone IP Office 500 V2 only.* 

# 5. Configure Avaya IP Office

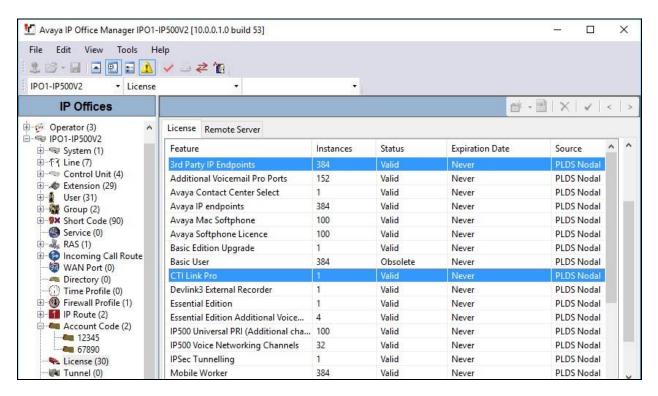
This section provides the procedures for configuring IP Office. The procedures include the following areas:

- Verify license
- Obtain LAN IP address
- Administer SIP Registrar
- Administer SIP extensions
- Administer SIP users
- Administer groups
- Administer agents and supervisors
- Administer incoming call route
- Administer security settings

### 5.1. Verify License

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, select License to display the licenses in the right pane. Verify that the license status for 3<sup>rd</sup> Party IP Endpoints and CTI Link Pro are "Valid", as shown below.

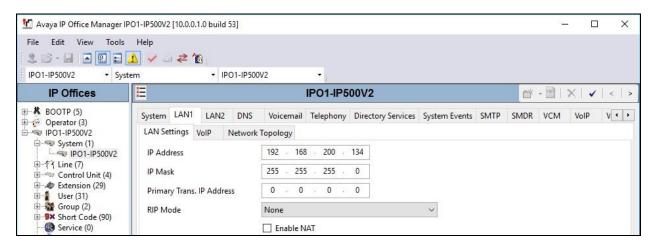


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### 5.2. Obtain LAN IP Address

From the configuration tree in the left pane, select **System** to display the **IPO-IP500V2** screen in the right pane, where **IPO-IP500V2** 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 Vuesion. Note that IP Office can support SIP on the LAN1 and/or LAN2 interfaces, and the compliance testing used the LAN1 interface.



### 5.3. Administer SIP Registrar

Select the **VoIP** sub-tab. Make certain that **SIP Registrar Enable** is checked. A **SIP Domain Name** can be entered for SIP endpoints to use for registration with IP Office.

In the compliance testing, the **SIP Domain Name** was left blank, so the LAN IP address was used for registration.

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System (1)     System (1)	H.323 Gatekeeper Enable         Auto-create Extension         Auto-create User         H.323 Signaling over TLS         Disabled         V         Remote Call Signaling Port	^
<ul> <li>Group (2)</li> <li>Short Code (90)</li> <li>Service (0)</li> <li>RAS (1)</li> <li>WAN Port (0)</li> <li>WAN Port (0)</li> <li>Directory (0)</li> <li>Time Profile (0)</li> </ul>	SIP Domain Name	nable
	SIP Registrar FQDN	

TLT; Reviewed: SPOC 3/8/2017

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### 5.4. Administer SIP Extensions

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 extension. Enter the desired digits for **Base Extension**, and retain the default values in the remaining fields.

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<ul> <li>BOOTP (5)</li> <li>Gperator (3)</li> <li>IPO1-IP500V2</li> <li>System (1)</li> </ul>	Extension	VoIP	T38 Fax							
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Select the **VoIP** tab. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Codec Selection: "Custom"
- Selected: Retain only the applicable G.711 codec variation.
- Allow Direct Media Path: Uncheck this field.
- Reserve License: "Reserve 3rd party IP endpoint license"
- Media Security: "Disable"

Repeat this section to add the desired number of SIP extensions. In the compliance testing, four SIP extensions with base extensions of 28881-28884 were created.

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### 5.5. Administer SIP Users

From the configuration tree in the left pane, right-click on **User**, and select **New** from the pop-up list. For **Name**, enter the same desired value prefixed with "IVR", as required by Vuesion. For **Extension**, enter the first SIP base extension from **Section 5.4**.

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

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Select the Telephony tab, followed by the Call Settings sub-tab. Check Call Waiting On.

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Time Profile (0) 	Call Cost Mark-Up Advertise Callee State To Internal Callers	100 System Default (Off)	~				
IP Route (2)							

Select the **Supervisor Settings** sub-tab, and enter a desired **Login Code**.

Repeat this section to add a new user for each SIP extension from **Section 5.4**. In the compliance testing, four users with extensions 28881-28884 were created.

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Image: Second	User Voicemail DND Call Settings Supervisor Login Code Confirm Login Code Login Idle Period (sec) Monitor Group Coverage Group Status on No-Answer Reset Longest Idle Time () All Calls	Settings Multi- •••••• <none> <none> Logged On (No of the set o</none></none>	Source Numbers line Options Call		]	rce Logir rce Acco rce Auth coming C utgoing C	unt Code orization Code Call Bar Call Bar Switch Forward/Tr e		ramming	• •

### 5.6. Administer Groups

Administer four groups as required by Vuesion for the following purposes:

- Main group for delivering of incoming calls to Vuesion.
- Monitor group for supervisor monitoring of agents.
- Tenant group for applying call treatments such as announcements and auto attendant.
- IVR pilot group for applying announcements outside of tenant configuration.

From the configuration tree in the left pane, right-click on **Group** and select **New** from the popup list to add a new group. This first group will be used to deliver incoming calls to Vuesion.

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 all SIP users from Section 5.5 as members, as shown below.

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WAN Port (0) — Directory (0) — Time Profile (0) — Provent Profile (1) — Provet (2) — Account Code (2) — License (30) — User Rights (8)	Extension         Name           2         28881         IVR 28881           2         28882         IVR 28882           2         28883         IVR 28883           2         28884         IVR 28884			

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

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	Group Queuing Voicemail Code Confirm Voicemail Voicemail Email Voicemail Email Off Copy			Voice Recording	Announcem	ents Voicemail On Voicemail Answer Ti Voicemail Help Broadcast UMS Web Service				45

Repeat this section to add the three remaining groups. The tenant and IVR pilot groups were configured the same as the main group with **Ring Mode** of "Rotary", **Voicemail On** unchecked, and **User List** containing all SIP users from **Section 5.5** as members.

For the monitor group, retain the default values for **Ring Mode** and **Voicemail On**, and add all agent users from **Section 3** into the **User List** section.

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	Group Queuing Overflow F Name Extension Ring Mode Hold Music Source Ring Tone Override Agent's Status on No-Answer Applies To User List Extension Name 20031 Extn20031 20032 Extn20032	allback Voicemail Voice Recording Annou BBX Monitor 28002 Sequential ~ No Change ~ None ~	ncements Profile Exclude From Directory No Answer Time (sec)	Standard Hunt Group / System Default (15)	

### 5.7. Administer Agents and Supervisors

From the configuration tree in the left pane, select the first agent user, in this case "20031". Select the **Telephony** tab, followed by the **Supervisor Settings** sub-tab. Uncheck **Cannot be Intruded** and configure **Can Intrude** as desired.

Repeat this for all agent users from **Section 3**. In the compliance testing, two agent users with extensions 20031-20032 were configured.

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	Coverage Group Status on No-Answer	<none> ~ Logged On (No change) ~</none>	<ul> <li>Incoming Call Bar</li> <li>Outgoing Call Bar</li> </ul>
Service (0) RAS (1) Comming Call Route	Reset Longest Idle Tir		Inhibit Off-Switch Forward/Transfer Can Intrude
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For each supervisor user, check **Can Intrude** and **Cannot be Intruded**. For **Monitor Group**, select the monitor group from **Section 5.6**. Repeat this for all supervisor users from **Section 3**.

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### 5.8. Administer Incoming Call Route

If necessary, create an incoming call route to route incoming calls to the main group. In the compliance testing, the existing incoming call route for a SIP line can route to any five digit extensions on IP Office.

As shown in screen below, the **Incoming Number** for SIP line "18" is "73285XXXXX", which uses five single digit wildcards "X" allowing the last five digits to be any number.

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PO1-IP500V2     System (1)     IPO1-IP500V2     System (1)     IPO1-IP500V2     Social (1)     Social (1)	Standard Voice Recording Bearer Capability Line Group ID Incoming Number Incoming Sub Address Incoming CLI Locale Priority Tag Hold Music Source Ring Tone Override	Destinations Any Voice 18 73285XXXXX	× > > > >			

In the **Destinations** tab, the use of "#" in the **Destination** field enabled routing to be based on "XXXXX" from the **Incoming Number** field from above. Therefore, incoming calls to "7328528001" was routed to the main group with extension "28001" configured in **Section 5.6**.

If desired, the main group can be selected from the **Destination** drop-down to route all incoming trunk calls to Vuesion.

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### 5.9. Administer Security Settings

From the configuration tree in the left pane, select **File**  $\rightarrow$  **Advanced**  $\rightarrow$  **Security Settings** from the top menu.

The Avaya IP Office Manager – Security Administration screen is displayed. Select Security → System to display the System screen in the right pane. Select the Unsecured Interfaces tab, and check TAPI/DevLink3 as shown below.

🐮 Avaya IP Office Manager - Securi	ity Administration - IPO1-IP50	0V2 [10	0.0.0.1.0 build 53]			<u>17 -</u> 51		×
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	Application	Active	e Limitations					
	Legacy Voicemail	×						
	Voicemail Lite	×						
	Upgrade wizard	1						
	TAPI	1						
	one-X Portal Client	~						
	IP Office Directory Services	~	1	23				
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### 6. Configure BBX Technologies Vuesion Multichannel Contact Center

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

- Administer TAPI driver
- Launch Vuesion Manager
- Administer communication setup
- Administer ACD voice queues
- Administer ACD members
- Administer local extensions
- Administer tenants
- Administer IVR extensions
- Administer park orbits
- Start services

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

In addition to the shown procedural steps, the application also requires the auto attendant, and class of service for agents and supervisors to be configured by following reference [2].

### 6.1. Administer TAPI Driver

From the Vuesion server, select Start  $\rightarrow$  Control Panel  $\rightarrow$  Phone and Modem, to display the Phone and Modem screen below. Select the Advanced tab, followed by Avaya IP Office TAPI2 Service Provider, and click Configure.

	Phone and I	Modem	
Dialing Rules	Modems Advanced		
The	following telephony provid	lers are installed on this	s computer:
Providers: Avaya IP Offic	ce TAPI2 Service Provider		
1			
	Add	Remove 🛞	Configure
	Add	Remove	Configure

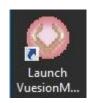
The **Avaya TAPI2 configuration** screen is displayed. For **Switch IP Address**, enter the IP address of IP Office. Select the radio button for **Third Party**, and enter the IP Office password into the **Switch Password** field. Reboot the Vuesion server.

Avaya TAPI2 configurati	on
Switch IP Address 192.168.200.134	OK
⊂ Single User	Cancel
User Name	
Third Party	
Switch Password	
Advanced settings Ping Timeout (5 to 420 seconds) 5	

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### 6.2. Launch Vuesion Manager

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



### 6.3. Administer Communication Setup

The main Vuesion screen below is displayed. Click on the **Vuesion** icon in the upper left corner, select **Installer Access** (not shown) and log in with installer permissions.

Select Switch Setup → Communication Setup from the top menu.

			p Clients Contact Cent		Trace 😧 🛈 (
🔒 🤮 🔳 🔳 👳					
Switch Setup	82				
Messaging/IVR	22				
Routing	🖪 🛛 V	/oice Device	Information 1	Information 2	
Desktop Clients					
Contact Center					
- concocc center					
	_				
			<u></u>		

The **COMMUNICATION SETTINGS** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- **PBX IP Addr:** The IP address of IP Office.
- Password:
  - The pertinent password of IP Office.
- Customer Location Name: A descriptive name.
- This Server IP address: The IP address of Vuesion server.
- This Server IP Port: An available port on Vuesion server.
- **IVR Location:** The same descriptive name.
- **IVR Pilot Number:** The IVR pilot group extension from **Section 5.6**.

OMMUNICATION SETTIN	
PBX IP Addr: 192.168.200	0.134 Password: DOCOD
Link Name:	
App. Name	
App. UserID	
THIS SERVER DEFINITION	0 N
Customer Location Name:	Avaya DevConnect
This Server IP address:	10.64.101.205
This Server IP Port:	62205
IVR Location:	Avaya DevConnect
IVR Pilot Number:	28004
	OK

### 6.4. Administer ACD Voice Queues

From the main Vuesion screen shown in Section 6.3, select Contact Center  $\rightarrow$  ACD Voice Queues from the top menu to display the Voice Queues screen. Follow reference [2] to create an entry for the main group from Section 5.6, as shown below. Note that the Queue ID and Queue Name values must match to the main group extension and name from Section 5.6.

The **Voice Routing Options** sub-section defines parameters used for routing of incoming calls. The **Voice Contact Center Members Assignment** sub-section defines the members and their skills levels. The **Announcements** sub-section defines the announcement treatments.

The screenshot below shows the values used in the compliance testing. Note that the ACD voice queue was created initially without any member assignments, and subsequently updated to include assignments after the members were administered in the next section.

Queue ID: 28001	Queue Name:	BBX M	ain	5102e		roup Name:			
Group Name	ID			Voi	ce Hou	uting Options	0.0		
BBX Main	28001	7	Enable Prior	ty: 09		Longest InQ Thr:	40	3	Ŷ
		Me	thod: Skills Base	ł	-	Force Priority:		00	
		Ove	erflow Time: 25	s		Q Threshold:		04	
		Ove	erflow Destination:	-	-	Abandon Filter:		15s	*
			ned-Out Overflow:	-		Abandon Thr:	30		=
					Abandon Tri.		100 M		¥
		-	Busy Overflow:	10			Colorina -		
		Adv	vance Time:	10s		Auto Logout	11:5	0:00 PM	÷
Add Group	Remove Grou	- Mus	sic On Hold:			Enable Sched	ule		
	Thomose and		- Announcemen	is-					
1: Prompt	Say Q Position	V Sa	y Average Hold		npt	Once -	N	ever	÷.
2. Prompt	Say QPosition	Sa Sa	y Average Hold	Pror	npt	Repea -	3	Ds	÷
3: Prompt	Say QPosition	Sa	ay Average Hold	Pror	npt	Repea -	N	ever	*
		oice Cor	ntact Center Memb	ers Assig	Inment		89 dite		
Voice Skill	Name	ID	Type	Skill	1 [	Name	-	ID	Tj
• 00	BBX Agent1	80031	ACD Agent	09					
	BBX Agent2	80032	ACD Agent	09					
	BBX Supervisor	80035	ACD Supervisor	09					
			-		<<				

### 6.5. Administer ACD Members

From the main Vuesion screen shown in Section 6.3, select Contact Center  $\rightarrow$  ACD Members from the top menu to display the ACD Members screen. Follow reference [2] to create an entry for each agent and supervisor user from Section 3.

Enter the desired **FullName**. For **Member ID**, enter a unique value for each agent and supervisor. The recommendation is to use an available extension number on IP Office. For **Password**, enter desired values. In the compliance testing, the same values were used for **Member ID** and **Password** for simplicity.

For **Type**, select "ACD Agent" for agents and "ACD Supervisor" for supervisors. For **Primary Group**, select the ACD voice queue from **Section 6.4**. For **Class**, select the appropriate class of service.

Name	ID	Passw	COS	Туре	Def. E	Member Definit	ion
BBX Agent1	80031	80031	0	ACD Agent		Туре:	ACD Agent 🔹
BBX Agent2	80032	80032	0	ACD Agent		Member ID:	80031
BBX Supervisor	80035	80035	1	ACD Supervisor		10000000000	
						FullName:	BBX Agent1
		-				A.K.A:	
						Password:	80031
	-					Primary Group:	BBX Main
						Class:	0 🔹
						WFM/WF0	
						Allow Agents S Supervisor ID Supervisor ID Supervisor ID	Extension:

The screenshot below shows the values used in the compliance testing.

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### 6.6. Administer Local Extensions

From the main Vuesion screen shown in Section 6.3, select Switch Setup  $\rightarrow$  Local Extensions from the top menu to display the DIRECTORY CONFIGURATION screen below.

Follow reference [2] to create an entry for each ACD member from **Section 6.5**, where **DN** # is the corresponding user extensions from **Section 3**, as shown below. Note that the **Port**# value is automatically generated by Vuesion.

2.2.1.1.1.1	1.202.02	1	Directory #: 20031
Full Name	DN #	Port#	FullName: BBX Agent1
BBX Agent1	20031	24	
BBX Agent2	20032	0	Title:
BBX Supervisor	20035	27	PBX
		-	Account:
			Password:
		-	Tenant Name:
			Class of Service 0 👻
			Orrdar/Single Line     Orrdar/Single Line     Disable SMDR     AVAYA Softphone     Dialer     Disabled
			FOLLOW ME OPTIONS
			Cellular #:
		-	Home #:
			Alternate #

### 6.7. Administer Tenants

From the main Vuesion screen shown in Section 6.3, select Messaging  $\rightarrow$  Tenants from the top menu, to display the IDD\_TENANT screen.

Follow reference [2] to create an entry for the tenant group from **Section 5.6**. For **Name**, enter the tenant group name from **Section 5.6**. For **ID** and **Password**, enter the tenant group extension from **Section 5.6**. Retain the default values in the remaining fields, and click **Edit Members** (not shown) toward the bottom of the screen.

Name         ID         Pwd         Name:         BBX Tenant           BBX Tenant         28003         28003         ID:         28003         Password:         28003	0
BBX Tenant 28003 28003	
	Discount: %
	al Call Charges — Ite Add. Minute
First Minute Add. Minute First Minute	ite Add. Minute

The **Selected Tenant** screen is displayed next. Select all entries from the **Available User List** and move to the **Tenant/Group Members List**, as shown below.

Sel	ected Tenant : BB	X Tenant				23
	Tenant/Grou	up Members List		Availabl	le Users List	
	Member Name	Member Ext		Member Name	Member Ext	
	BBX Agent1	20031				
	BBX Agent2	20032				
	BBX Main	28001				
	BBX Supervisor	20035				
						_
			</td <td></td> <td></td> <td>_</td>			_
						_
			>>			

### 6.8. Administer IVR Extensions

From the main Vuesion screen shown in Section 6.3, select Messaging  $\rightarrow$  IVR Extensions from the top menu to display the DIRECTORY CONFIGURATION screen below.

Follow reference [2] to create an entry for each SIP user from **Section 5.5**. For **Full Name**, enter the SIP user name from **Section 5.5**. For **Password**, enter the SIP user login code from **Section 5.5**. Check **SIP IVR**, and retain the default values in the remaining fields.

IVR EXT	ENSIONS		DIRECTORY AS	
Full Name	DN #	Port#	Directory #:	28884
VR 28881	28881	0	FullName:	IVR 28884
VR 28882	28882	0	Title:	
VR 28883	28883	0	PBX	
VR 28884	28884	0	Account:	
			Password:	
			Tenant Name:	
			Class of Service	0 -
			Live Record Announce/N Dialer Disabled	otify
		_	-FOLLOW ME O	PTIONS
			Cellular #:	
			Home #:	
			Alternate #:	
			Active Forward:	

### 6.9. Administer Park Orbits

From the main Vuesion screen shown in Section 6.3, select Switch Setup  $\rightarrow$  Park Orbits from the top menu, to display the DIRECTORY CONFIGURATION screen below.

Follow reference [2] to create desired number of entries for parking of calls. The **DN** # are used by Vuesion to park and unpark calls on IP Office, therefore use available extension numbers on IP Office. The screenshot below shows the entries created in the compliance testing.

PARK	ORBITS		DIRECTORY ASSIGNMENT	
Full Name	DN #	Port#	Directory #:	
Park 01	29901	0	FullName:	
Park 02	29902	0	Title:	
			PBX	
		-	Account Code:	
			Password:	
			Tenant Name:	
		-	Class of Service 0 👻	-

### 6.10. Start Services

Select Start  $\rightarrow$  Control Panel  $\rightarrow$  Administrative Tools  $\rightarrow$  Services, to display the Services screen. Navigate to the Vuesion Server entry, right-click on the entry and select Start.

			Servio	es		Ŀ	- <b>-</b> ×
File Action View	Help						
Þ 🔿 📅 🗒 (	2 🗟 🛛 🖬 🕨 🖬 🕪						
Services (Local)	Name	Description	Status	Startup Type	Log On As		
	🔍 VMware Workstation Server	Remote acc	Running	Automatic	Local System		
	🔍 Volume Shadow Copy	Manages an		Manual	Local System		
	🔍 Vuesion Reporter			Manual	Local System		
	🐝 Vuesion Server			Manual	Local System		
	🔍 Vuesion Update			Manual	Local System		
	🔍 Vuesion Watch			Automatic	Local System		
	🔍 Vuesion WFM		Running	Automatic	Local System		
	🔍 Windows Audio	Manages au		Manual	Local Service		
	🛛 🍓 Windows Audio Endpoint B	Manages au		Manual	Local System		
	🔍 Windows Color System	The WcsPlu		Manual	Local Service		
	Windows Connection Mana	Makes auto	Running	Automatic (T	Local Service		
	Windows Driver Foundation	Creates and		Manual (Trig	Local System		
	Windows Encryption Provid	Windows E		Manual (Trig	Local Service		
	Extended Standard						

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## 7. Verification Steps

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

### 7.1. Verify Avaya IP Office

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 SysMonitor screen is displayed, as shown below. Select Status  $\rightarrow$  SIP Phone Status from the top menu.

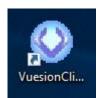


The **SIPPhoneStatus** screen is displayed. Verify that there is an entry for each virtual SIP user from **Section 5.5**, that the **User Agent** contains "VuesionSIP", and that the **Status** is "SIP: Registered", as shown below.

Total Config Total Regis				Registered Stat	12	Waiting 2 sec	s for update	_				
Extn Num	User Num	Security	Behi	IP Address	Private	Transport	User Agent	Licensed	SIP	SIP	SIP	Status
28881 28882 28883 28884 28884	28881 28882 28883 28884	disable disable disable disable		10.64.101.205 10.64.101.205 10.64.101.205 10.64.101.205		UDP UDP UDP UDP	VuesionSIP VuesionSIP VuesionSIP VuesionSIP	3rd Party IP Res 3rd Party IP Res 3rd Party IP Res 3rd Party IP Res	R R		0 0 0 0	SIP: Registered SIP: Registered SIP: Registered SIP: Registered
C Display O C Show		legistered	CUnRed	pistered Page 1	÷	Save Page	Reset Phone:	s Reregister Pho	ones	Ca	ncel	

### 7.2. Verify BBX Technologies Vuesion Multichannel Contact Center

From the agent user PC running Vuesion Client, double-click on the **VuesionClient.exe** icon shown on the desktop, which was created as part of installation.



The **Primary Vuesion Login** screen is displayed. Enter the following values for the specified fields, and retain the default values for the remaining fields.

- Host IP: The Vuesion server IP address from Section 6.3.
- Host Port: The Vuesion server port from Section 6.3.
- **IVR Pilot:** The IVR pilot number from **Section 6.3**.
- Extension #: The applicable member extension from Section 6.7.
- User ID: The applicable member ID from Section 6.5.
- **Password:** The applicable member password from **Section 6.5**.

OPrimary Vu	esion Login	×
Host IP:	10.64.101.205	
Host Port:	62205	
IVR Pilot:	28004	1
Login	to Backup Vuesion	_
Login Informa	ation	
Nome: DD	W Asserted	
Name: BE	3X Agent1	
Extension #:	20031	

Home Vie	M Se	ettings History	Applications So	Vuesion E	XT 20031 B	BX Agent1				- [ Onti	ons 😨 (
							ሳ 🛞 🚺		• D		
all Control	Vo	ice Queue: BB	X Main								
Login Lunch	E	3BX Main BBX A	Agent1 BBX Age	nt2 BB) Superv	c l						
Break											
Meeting		Status	Number		Name	Ti	me	Length	From		ID
Unavail.											
Park Idle	<										
Hold											
Transfer	Vo	ice Queues	Queued	Longest	Active	Abandon	Handled	Overflow	~TTA	S.L.	Msgs
	0	BBX Main	0	0:00	0	0	<b>S</b> 1	0	00:04	100%	0
Answer											

The Vuesion screen below is displayed. Click on the Login icon from the left pane.

The applicable agent icon is updated in the right pane, as shown below.

Home View	Settings History	Applications Sc		XT 20031 B	BX Agent1				— E Opti	
						o 🚳 🔽		• 0		0113
all Control	Voice Queue: BE	X Main								
Logout Lunch Work	BBX Main BBX	Agent1 BBX Age	nt2 BBX Superv							
Break										
Meeting	Status	Number		Name	Ti	me	Length	From		ID
Unavail.										
Park Idle	<									
Hold										
Transfer	Voice Queues	Queued	Longest	Active	Abandon	Handled	Overflow	~TTA	S.L.	Msgs
Answer	🥝 BBX Main	0	0:00	0	0	<b>1</b>	0	00:04	100%	0

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29 of 35 BBX-Vues-IPO10 Make a call from the PSTN to the main group, and verify that the agent screen is updated to reflect a ringing call. Also verify that the entry shown in the middle right pane reflects proper information for the call. Click on the **Answer** icon in the left pane to answer the call.

	-				Vuesion E	XT 20031 B	3X Agent1				1456		×
	Home View	Se	ttings History App	plications So	ort						0	ptions	00
1 🕰 🔳	66		I 🖬 🖬 🖬 🤗 🖻	- di 1				> 🛞 🚺		•	Ŧ		
Call Cor	ntrol	Vo	ice Queue: BBX I	Main									
	Logout Lunch Work	8	BX Main BBX Ager	ati BBX Age	nt2 BB> Superv	< Contract of the second s							
-	Break												
32	Meeting	8	Status	Number		Name	Tin	ne	Length	From		10	D
0	Unavail.		Incoming	908-953-2	103	BBX Main	09:	11:05	00:00:05	9089532	103	2	ŝ.
Õ	Park Idle	<											>
	Hold												
-	Transfer	Vo	ice Queues	Queued	Longest	Active	Abandon	Handled	Overflow	~TTA	S.L.	N	lsgs
6	Answer	<b>2</b>	3BX Main	1	0:03	0	0	<b>1</b>	0	00:04	100%	6 🖻	0

Verify the agent telephone is connected to the caller with two-way talk path, and that the agent screen is updated to reflect the call being connected, as shown below. Click on the **Release** icon in the left pane to complete the call.

				Vuesion E	XT 20031 B	BX Agent1					×
🤍 Home Viev	v Se	ettings History	Applications So	ort						Optio	ns 🕜 (
👃 🗆 🐻 📑 🗉		2 🖸 💽 🛄 😋	i 🖻 🔐				> 🛞 🚺		•		
all Control	Vo	ice Queue: BB	X Main								
Logout	(8	BBX Main BBX A	genti BBX Age	nt2 BB) Superv							
Break Meeting			Ŭ.		1			1	1-		1
and weeting		Status	Number	SHE IT	Name	Tir	ne	Length	From	00-53510	ID
Unavail.	5	Connected	908-953-2	103	BBX Main	n 09:	:11:05	00:00:30	908953	2103	2
Park Idle	<										
Hold											
Transfer	Vo	ice Queues	Queued	Longest	Active	Abandon	Handled	Overflow	~TTA	S.L.	Msgs
	0	BBX Main	0	0:00	1	0	<b>1</b>	0	00:05	100%	0
Answer Answer											

Solution & Interoperability Test Lab Application Notes ©2017 Avaya Inc. All Rights Reserved. 30 of 35 BBX-Vues-IPO10 From the PC running Vuesion Reports, double-click on the **VuesionReports.exe** icon shown on the desktop, which was created as part of installation. In the compliance testing, Vuesion Reports was running on the supervisor PC.



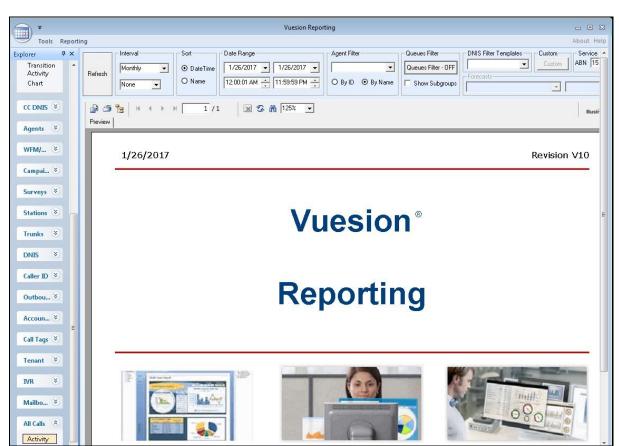
The **Vuesion Reporting** screen is displayed. For **Server IP/Name**, enter the Vuesion server IP address from **Section 6.3**. For **TCP/Port**, enter the Vuesion server port from **Section 6.3**.

For **Supervisor ID** and **Password**, enter the applicable supervisor credentials from **Section 6.5**, as shown below.

	Vuesion Reporting	
Tools Reporting		About Help
Explorer CC Queues Performance DOW Performance DOW All Groups Service Level Abandon Activity Activity Resolutions-in Activity	Server IP/Name: 10.64.101.205 TCP/Port: 62205 Supervisor ID: 80035 Password: xxxxx Cancel Login	
Resolutions-in Summary Resolutions-out Activity		CAP NUM SCRL

The **Vuesion Reporting** screen below is displayed. Retain the default values, and click **View Reports** to view reports for the current day.

•	Vues	sion Reporting	- 8 %
Tools Reporting			About Help
Tools Reporting         Explorer       4 ×         CC Queues       *         DOW Performance       DOW Performance         DOW Performance       DOW All Groups         Service Level       Abandon Activity         Activity       Activity         Resolutions-in Activity       Resolutions-in Summary         Resolutions-out Activity       Resolutions-out Summary         Email Activity       Email Summary         Reason Summary       Calls Transitions Activity         CC DNIS       *         Agents       *	Start Date Selection         Start Date Selection         Image: start Date Selection         Start Mon Tue Wed Thu Fri Sat         52       25 26 27 28 29 30 31         1       1 2 3 4 5 6 7         2       8 9 10 11 12 13 14         3 15 16 17 18 19 20 21         4 22 23 24 25 22 27 28 29         5 29 30 31 1 2 3 4         5 29 30 31 1 2 3 4         5 29 30 31 1 2 3 4         5 29 30 31 1 2 3 4         6 5         7 1 1 5         8 9 10 11 1 2 3 4         4 22 23 24 25 20 27 28         5 29 30 31 1 2 3 4         5 29 30 31 1 2 3 4         5 10 17 18 19 20 21         4 5         Reports Start Time         12:00:01 AM         4 5         7 1 1 2 3 4         5 29 30 31 1 2 3 4         6 0         Abandon Threshold:         15         7 1 60         Abandon - Columns:         1 5 30         Long calls greater than:         20         Short calls less than:         30         External Transfer Filte:         Resolution 1:	End Date Selection           January, 2017           Sun Mon Tue Wed Thu Fri Sat	AUTOMATIC REPORTS  Reports Name:  Canadian Start Time Reports Stop Time  Canadian Start Time Reports  Canadi
	Resolution 2:		<b></b>
WFM/WFO 🛞	Resolution 3:		
Campaign (8)	Cancel	View Reports	Send Request
			CAP NUM SCRL



The **Vuesion Reporting** screen is updated. Select **All Calls** → **Activity** from the left pane.

The **Vuesion Reporting** screen is updated with the **Call Detail Activity** report. Verify that there are entries reflecting the last call with proper information, as shown below.

) -				Vuesion Repor	ting				- 0
Tools Reportin	ng								About
orer 7 ×	Interval	Sort	Date Range		Agent Filter	Queues Filter	DNIS Filter Template	1	Service L
Transition 🔺 Activity	Monthly	💽 💿 Date	Time 1/26/2017	• 1/26/2017 •		Queues Filter - OFF		Custom	ABN 15
Chart	Refresh None	O Nam	12:00:01 AM	11:59:59 PM	O By ID ⊙ By Name	Show Subgroups	Forecasts-	<u> </u>	
	····	Þ. H.	1/1	S 🕅 125% 💽					Busin
Agents 🙁	Preview								
wfm/ 🛞				Call	Detail Acti	ivity			
NFM/ Campai 📎				Call I Thursday 1/26				P	age 1 of
	Date /	Ext.	Name	Thursday 1/26	/2017 - Thursd		Call	P	age 1 of Call ID
Campai 📎	Date / Time	Ext.		Thursday 1/26	/2017 - Thursd	ay 1/26/2017	Call Duration		- 100 
Campai Surveys 🙁 Stations 👻		Ext.		Thursday 1/26	/2017 - Thursd	ay 1/26/2017			- 100 
Campai Surveys 🙁	Time			Thursday 1/26	/2017 - Thursd	ay 1/26/2017			
Campai Surveys 🙁 Stations 🛎 Frunks 👟	Time 01/26/2017	28882	Name	Call Type	/2017 - Thursd	ay 1/26/2017	Duration	DNIS	Call ID
Campai » Surveys » Stations »	Time 01/26/2017 09:11:04	28882 20031	Name IVR 28882	Thursday 1/26	2017 - Thursd ANI / Number Dialed 908.953.2103	ay 1/26/2017	Duration 00:00:04	DNIS	Call ID
iampai iurveys 🌣 itations 📚 irunks 📚	Time 01/26/2017 09:11:04 09:11:04	28882 20031 20031	Name IVR 28882 BBX Agent1	Thursday 1/26 Call Type Inbound Start Ring	2017 - Thursd ANI / Number Dialed 908.953.2103	yoe9532103	Duration 00:00:04 00:00:00	DNIS	Call ID 2

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# 8. Conclusion

These Application Notes describe the configuration steps required for BBX Technologies Vuesion Multichannel Contact Center 11.3 to successfully interoperate with Avaya IP Office 10.0. All feature and serviceability test cases were completed with observations noted in **Section 2.2**.

## 9. Additional References

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

- **1.** *Administering Avaya IP Office*<sup>™</sup>*Platform with Manager*, Release 10.0, September 2016, available at <u>http://support.avaya.com</u>.
- **2.** *Vuesion Application Server Contact Center Configuration Guide*, 01/2017 Release V11, available upon request to BBX Technologies Support.

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