

Avaya Solution & Interoperability Test Lab

Application Notes for MedTel Services OMNIWorks with Avaya IP Office 9.0 – Issue 1.0

Abstract

These Application Notes describe the configuration steps required for MedTel Services OMNIWorks to interoperate with Avaya IP Office 9.0. MedTel Services OMNIWorks is a multimedia contact center solution.

In the compliance testing, MedTel Services OMNIWorks used TAPI 2 from Avaya IP Office to provide routing of incoming calls to available agents and call control 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 MedTel Services OMNIWorks to interoperate with Avaya IP Office 9.0. MedTel Services OMNIWorks is a multimedia contact center solution.

In the compliance testing, MedTel Services OMNIWorks used TAPI 2 from Avaya IP Office to provide routing of incoming calls to available agents and call control from the agent desktops.

The TAPI 2 in third party mode interface was used by the MedTel Services OMNIWorks server to monitor groups and agent users on Avaya IP Office. Incoming calls were redirected by MedTel Services OMNIWorks to available agents using the TAPI line redirect capability.

The agents were configured as users on Avaya IP Office, with ACD functionality provided by MedTel Services OMNIWorks. The agents have desktop computers running the MedTel Services OMNIWorks Agent Console client application, which used the TAPI 2 in first party mode to provide call control.

2. General Test Approach and Test Results

The feature test cases were performed both automatically and manually. Upon start of the OMNIWorks server and client applications, the applications automatically requested monitoring of devices.

For the manual part of the testing, incoming calls were made to the ACD groups. The OMNIWorks server used the TAPI event messages to track agent states, and redirected calls to available agents. Manual call controls from both the agent desktops and agent telephones were exercised where applicable to verify remaining features such as answering and dropping of calls.

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

The verification of tests included human checking of proper states at the agent desktops and telephones, and of reviewing the TAPI log from IP Office.

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 OMNIWorks:

- Use of TAPI functions from the server to monitor groups and users, and redirect incoming ACD calls.
- Use of TAPI functions from the clients to monitor users, and support of call control.
- Proper handling of call scenarios including incoming calls to the ACD groups, answer, hold/reconnect, drop, blind/attended transfer, blind/attended conference, queue, voicemail, outgoing call, multiple agents, and multiple calls.

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

2.2. Test Results

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

- The agent PC clock needs to be synced with the OMNIWorks server clock down to the second level, or else the Oldest and Queue statistics displayed on the Agent Console may be off.
- Conference-from agent was placed into the Wrap state as soon as the conference complete action took place.
- When the agent was active on an ACD call and a personal call came in, the Agent Console was updated with actions applicable to the personal call, and the agent has to use the telephone to control the ACD call at this point.
- This release of Agent Console does not support mixed use of desktop and telephone for the transfer and conference scenarios.
- After an agent in the manual answer mode handled an ACD call, a personal call to the agent will be displayed with the calling party number from the previous ACD call. The workaround is to consult the display on the agent telephone.
- Input of DTMF for account codes is not supported by Agent Console, and therefore needs to be entered from the agent telephone.
- If a call is in process of being redirected to an agent that's experiencing an Ethernet disruption, then the call can get stuck in the queue. This can be managed by configuring voicemail or overflow treatment for the group.

2.3. Support

Technical support on OMNIWorks can be obtained through the following:

- **Phone:** (800) 444-7434
- Email: <u>techsupport@medtelservices.com</u>
- Web: <u>www.medtelservices.com</u>

3. Reference Configuration

OMNIWorks can be configured on a single server or with components distributed across multiple servers. The compliance test configuration used a single server configuration.

The detailed administration of general contact center devices such agent and supervisor users are assumed to be in place, and are not covered in these Application Notes.

In the compliance testing, the OMNIWorks Agent Console application was running on the agent desktops.

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
MedTel Services OMNIWorks on Windows 2012 R2 Standard • OWAvayaProvider • Avaya IP Office TAPI2 Driver (tspi2w_64)	7.1.0.28 1.0.3.0 1.0.0.38
MedTel Services OMNIWorks Agent Console on Windows 7 Enterprise • Avaya IP Office TAPI2 Driver (tspi2w_64)	7.1.0.35 SP1 1.0.0.38

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. The procedures include the following areas:

- Verify license
- Administer group
- Obtain user information

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 **CTI Link Pro** is "Valid", as shown below.

🐮 Avaya IP Office Manager II	P500V2 [9.0.100.845]			
File Edit View Tools He	əlp			
IP500V2	•		🖲 🖬 🚺 🗸 🗉 🧧	2 A
	1001 (
IP Offices			ex - 🖆	X
🕀 🕺 BOOTP (9)	License Remote Server			
Operator (3)	Feature	License Key	Instances	Status
+ 50000 (1)	3rd Party IP Endpoints	l iX5irTV1vGan4D8eJlev	255	Valid
国 47 Line (7)	Advanced Edition	IAV@9lm7Xd H39iWJeu998	255	Valid
	AUDIX Voicemail	S4TrwdbMAS6207mx5Cc	255	Valid
	Avaya IP endpoints	syn6cLdwvsg2F9fYRNugL	255	Valid
Extension (29)	Avaya IP endpoints	Virtual Avaya IP Endpoints	12	Valid
🕀 👔 User (31)	Avaya Softphone License	XAmMrmyMvd8CAMqYJJx	255	Valid
😟 🎇 Group (3)	CTI Link Pro	NAMnt99YtUpNVF6cCIxG9	255	Valid
🗄 🥬 Short Code (68)	DECT Integration (ports)	D4eSOTVcXSR1aLRBY	255	Obsolete
Service (0)	Essential Edition	stxTs5g5vjfcKbq1JEeyk	255	Valid
E	Essential Edition Additional Voicemail	IAebKWVeAAFevo01wjc	255	Valid
The coming Call Pourte (2)	IP500 Universal PRI (Additional chan	V4cB1y6HvvYN3mfp_	255	Valid
	IP500 Voice Networking Channels	2TD5VFLpvAP2bLH	255	Valid
wanPort (U)	Mobile User Upgrade	hAt6KP9zXSGcZblekjc	255	Valid
Directory (0)	Mobile Worker	@vCccghkXUkc49ae	255	Valid
(i) Time Profile (0)	Office Worker	ytcOwSvxXSAcyoF9H	255	Valid
표 📵 Firewall Profile (1)	Office Worker Upgrade	Ah1UOyBcvvLCUF0QC	255	Valid
IP Route (2)	Phone Manager Pro	O4yo59oevvAn4LueP	255	Valid
Account Code (2)	Phone Manager Pro (per seat)	AXcFd5VoXjkxaFmCRI	255	Valid
	Phone Manager Pro IP Audio Enabled	tTcdLD68ASsNdL8cw	255	Valid
	Power User	Nv2fwvd1tGGHKmZW	255	Valid
Iunnel (0)	Preferred Edition (Voicemail Pro)	yAD9Vbh XGZeXSRQk	255	Valid

5.2. Administer Group

From the configuration tree in the left pane, right-click on **Group** and select **New** from the popup list to add a new group. Enter desired values for **Name** and **Extension**. Do not add any user to this group, and retain the default values in the remaining fields

🕼 Avaya IP Office Manage	r IP500V2 [9.0.100.845]			
File Edit View Tools	Help Nup Sequ	r ji & ≌ - ential Group <hunt group:0=""></hunt>		∕
BOOTP (9) Operator (3) JP500V2 System (1) JP500V2 f { Line (8) Control Unit (4) Service (0) Service (0) RAS (1) Orcoming Call Route WanPort (0) Directory (0)	Group Queuing Overflow 1 Name Extension Ring Mode Hold Music Source Ring Tone Override Agent's Status on No-Answer Applies To User List Extension Name	Fallback Voicemail Voice Recording Anno OMNIWorks Sales 29000 Sequential V No Change V None V	Profile Ex Directory No Answer Time (secs)	Standard Hunt Group

Select the **Announcements** tab, and configure announcement treatments as desired. Below are the settings used in the compliance testing.

Repeat this section to create the desired number of groups. In the compliance testing, two groups with extensions of "29000" and "29001" were configured.

🖬 Avaya IP Office Manage	er IP500V2 [9.0.100.845]		
File Edit View Tools	Help		
🚺 IP500V2 📃 💽 Gro	oup 🗾	💽 🗾 💽 🔤 🖉 🖉] 🖬 🚺 🗸 🖃 🤾 🚺
IP Offices	📝 Sequenti	al Group <hunt group:0="">: *</hunt>	i → i i × i × i < i >
BOOTP (9) Operator (3) IP500V2 System (1) IP500V2 f Line (8) Control Unit (4) Extension (29) User (31) System (0) Start Code (70)	Group Queuing Overflow Fallbac	ck Voicemail Voice Recording Announcements	nize Calls
Service (0)	Post announcement tone	Music on hold	
⊕ Incoming Call Route ⊕ WanPort (0) ⊕ Directory (0)	2nd Announcement		
 ① Time Profile (0) ① Firewall Profile (1) 	Repeat last announcement		

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5.3. Obtain User Information

From the configuration tree in the left pane, select the first agent user, in this case "20031". Make a note of the **Name**, **Password**, and **Extension** field values, which will be used later to configure OMNIWorks.

Repeat this for all agent users from Section 3.

🚹 Avaya IP Offic	e Manager IP	500V2[9	.0.100.845	<u>ז</u> ן							
File Edit View	v Tools Help)									
IP500V2	🔹 User	- 9.02	• 2	20031 Extr	n20031	<u> </u>	3-01	▲ 🔝 📰	1	/ ⇒ ≈ ′∎	
IP Offi	ces	×××			Extr	n20031: 2003	31		C	* - 🖻 🗙	✓ < >
20016	6 Extn20016	User	Voicemail	DND S	hort Codes	Source Numbers	Telephony	Forwarding	Dial In	Voice Recording	Button
20018	8 Extn20018	Name	ų.		Extn200	031					
2001) Extn20019	Pass	vord								
20021	1 Extn20021 2 Extn20022	Confi	rm Password								
20023	3 Extn20023	Acco	unt Status		Enabled					1	
20031	1 Extn20031	Full N	ame								
20032	2 Extn20032 3 Extn20033	Exter	nsion		20031						
20034	4 Extn20034	Email	Address								
표 🉀 Group (2)		Local	в								
Short Cod	te (70)))	Priori	ty		5						
🗄 🚢 RAS (1)	Call Route (4)	Syste	m Phone Righ	nts	None					*	
WanPort I	(0)	Profil	e		Basic U	ser				~	
- Marcetory	(0) ile (0)				Rece	eptionist					

6. Configure MedTel Services OMNIWorks Server

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

- Administer TAPI driver
- Launch Manager
- Verify license
- Administer hunt group
- Administer user

6.1. Administer TAPI Driver

From the OMNIWorks server, select **Start** \rightarrow **Control Panel** \rightarrow **Phone and Modem**, to display the **Location Information** screen below. Enter the proper area code and any other pertinent data.

ocation Information		
Before you can make any phone or moder the following information about your curre	m connections, Wind ent location.	ows need:
What country/region are you in now?		
United States	-	
What area code (or city code) are you in 1 732	now?	
If you need to specify a carrier code, wha	at is it?	
If you dial a number to access an outside	line, what is it?	
The phone system at this location uses:		
Tone dialing C Pulse dialing		
re rone dialing to Pulse dialing		
	OK	Cancel

The Phone and Modem screen is displayed. Select the Advanced tab, followed by Avaya IP Office TAPI2 Service Provider, and click Configure.

ione and	Modem			
Dialing R	ules Modems	Advanced		
5	The followin	g telephony provid	ers are installed on	this computer:
Provide	rs:			
Avaya Micros NDIS F TAPI K Unimod	IFUNCE TAPL oft HID Phone Proxy TAPI Service ernel-Mode Se Jem 5 Service I	z service Provider TSP vice Provider rvice Provider Provider		
,		Add	Remove	🚱 Configure

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

aya TAPI2 configu	ration	
Switch IP Address	10.32.39.34	OK
1		Cancel
🗋 Single User		-
User Name		
User Password		
Third Party		
Switch Password	******	
	Ex Directory Users	
	WAV Users	
	ACD Queues	

6.2. Launch Manager

From the OMNIWorks server, select Start \rightarrow All Programs \rightarrow OMNIWorks \rightarrow Manager to launch the Manager application. Log in using the appropriate credentials.

Manager Login. Datak	ase : OMNIWorks
Login information	
Login Name:	Password:
	OK Cancel

6.3. Verify License

The **OMNIWorks Manager** screen is displayed. Select **OMNIWorks** \rightarrow **Provider** \rightarrow **Avaya Provider** in the left pane, where **Avaya Provider** is the name of the provider configured as part of installation. Verify that the right pane shows a valid **Licenses** count.

Right click on Avaya Provider in the left pane, and select Edit.

OMNIWorks Manager		
<u> Eile A</u> dd <u>T</u> ools <u>S</u> ettings <u>H</u> elp		
Log OUT Add Skill	+ Add Script +	Add User Add Team Add Supervisor Nov Save with Update
	Name	Data
	Name	Avaya Provider
	Description	Avaya IP Office Provider
E Supervisors	Licenses	1.
🐨 Jeams 🕀 🌽 Users	Data	
	Skills	
	Point of Contacts	
	Scripts	
Mode: Editing	Status: Idle (Ready)	

6.4. Administer Hunt Group

The Edit screen is displayed. Select the Configuration tab, and click New Hunt Group.

🖃 Edit - Avaya Provi	ider - Provider	_ □ X		
Name Avaya Prov	vider			
Description Avaya IP O	ffice Provider			
Skills Point of Contact	Scripts Configuration			
Incoming Avaya IP Office	Hunt Group (ACD) Extension(s):			
Hunt Group Extension		Point of Contact (POC)		
	N	ew Hunt Group Edit Delete		
		Close		

In the pop-up screen, enter the first group extension and name from Section 5.2.

Avaya Pro	x	
IP Office Hunt (Froup (ACD)	
Extension:	29000	
Description:	OMNI/Vorks Sales	
Description:	OMNI/Vorks Sales	
	СК	Cancel
	12	

Repeat this section for all groups from **Section 5.2**. In the compliance testing, two hunt groups with extensions "29000" and "29001" were created, as shown below.

Note that the **Point of Contact (POC)** field values are generated automatically by OMNIWorks.

- Edit - Avaya Provi	ider - Provider			x
Name Avaya Prov	vider			1
Skills Point of Contact	Scripts Configuration			
Incoming Avaya IP Office Hunt Group Extension	Hunt Group (ACD) Extension(s):	Point of Contact (POC)		
29000	OMNWorks Sales	AVAYA_29000		1
29001	OMNIWorks Support	AVAYA_29001		
		New Hunt Group	De Close	ete

6.5. Administer User

From the OMNIWorks Manager screen shown in Section 6.3, select Add User from the upper portion of the screen.

The Add New User pop-up screen is displayed. Enter a desired Username for the first agent user from Section 3.

202	
Username	
agent20031	
	K Cancel
	Carloor

2											
🗖 Edit	t - agent	20031 - User	5								x
User	agent200	131	ĺ								
First	Agent 1		Mide	lle					i		
Last	OMNIWor	ks	Теа	im 📃			Set Pa	ssword			
Assign	ned Skills	Provider User	Data	Team N	/embers						
Skill		Description		_	Proficiency	Agent F	Priority	Provider			T
						Edit		Remove Skil		Add Skil	
										Close	

The Edit screen is displayed. Enter the desired First and Last name, and click Add Skill.

The Select Skill screen is displayed next. Check the desired skills for this agent.

Skill Name	Description	Priority	Provider	Provider Description
AVAYA_29001	Avaya IP Office (Hunt	1	Avaya Provider	Avaya IP Office Provid
▲ AVAYA_29000	Avaya IP Office (Hunt	1	Avaya Provider	Avaya IP Office Provid
				OK Cancel

The **Confirm** screen is displayed, as shown below.



The **Edit** screen is displayed next. For **Extension**, enter the first agent user extension from **Section 5.3**, and the **TAPI Device Name** will be populated automatically. Set **Auto Answer** as desired, and retain the default values in the remaining fields.

Repeat this section to administer all agent users from Section 3.

x
ancel
à

7. Configure MedTel Services OMNIWorks Client

This section provides the procedures for administering each OMNIWorks client. The procedures include the following areas:

- Administer TAPI driver
- Administer TAPI device

Repeat this section for all OMNIWorks clients.

7.1. Administer TAPI Driver

From the OMNIWorks client PC, select Start \rightarrow Control Panel \rightarrow Phone and Modem, to display the Location Information screen below. Enter the proper area code and any other pertinent data.

ocation Information	
Before you can make any phot the following information about What country/region are you i	ne or modem connections, Windows needs it your current location. in now?
United States	
What area code (or city code)) are you in now?
If you need to specify a carrie	er code, what is it?

The **Phone and Modem** screen is displayed next. Select the **Advanced** tab, followed by **Avaya IP Office TAPI2 Service Provider**, and click **Configure**.

one and Modern Dialing Rules Modems /	Advanced	
The following te	lephony providers are	e installed on this compute
Avaya IP Office TAPI2 S Microsoft HID Phone TSI NDIS Proxy TAPI Servici TAPI Kernel-Mode Servic Unimodem 5 Service Pro	ervice Provider Provider e Provider vider Add.	Remove Reconfigure
d		Cancel Apply

Solution & Interoperability Test Lab Application Notes ©2014 Avaya Inc. All Rights Reserved. The **Avaya TAPI2 configuration** screen is displayed. For **Switch IP Address**, enter the IP address of IP Office. Select the radio button for **Single User**. Enter the applicable user name and password from **Section 5.3**. Reboot the OMNIWorks client.

Switch IP Address	10.32.39.34	OK
	1	Cancel
Single User		
User Name	Extn20031	
o con ritalino		
User Password		
C Third Party		
Switch Password	1	
	Ex Directory Users	
	☐ WAV Users	
	E los a	

7.2. Administer TAPI Device

After the reboot, select **Start** \rightarrow **All Programs** \rightarrow **OMNIWorks** \rightarrow **Agent Console** to launch the application, and log in using the applicable credentials from **Section 6.5**.

Agent	Login	-	
	User Name	agent20031	
a	Password		
Co	nfigure	Log In	Cancel

The screen below is displayed. Upon initial log in to the application, select **Services** \rightarrow **Avaya Provider** from the top menu.

- agent200	31	_		×
Agent View	Services	Options	Help	
Ready	Ou	t	Complete	
Out 0:01:35	;	Olde	st 0:00:00	Queue 0
Out : Default				🕨 🕨 No Skills

In the subsequent screen, select **Options** \rightarrow **TAPI Device**.

- Ext	: 20031		X
Phone	Options	Help	
			Make Call
1	2	3	Transfer
4	5	6	Conference
7	8	9	Hold
*	0	#	Hang Up
	Directory		Answer
Call Dise	connected	: Lost Co	nnection to TAPI De

The Select TAPI Device screen is displayed. Select the IP Office Phone entry shown below.

- Select TAI	PI Device	×
TAPI Device	IP Office Phone: 20031	
	ок 🛛	Cancel

8. Verification Steps

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

From the agent user PC, follow the procedures in **Section 7.2** to launch the OMNIWorks Agent Console application and log in using the applicable credentials.

Agent I	Login	-	- X
	User Name	agent20031	
	Password		
Cor	nfigure	Log In	Cancel

The screen below is displayed next. Verify the lower right corner of the screen reflects the correct number of skills configured for the agent from **Section 6.5**. Click **Ready** to make the agent available to receive ACD calls.

- agent20031					
Agent Vi	ew Services	Options	Help		
Ready	Ou	t	Complete		
Out 0:0	D:11	Olde	st 0:00:00	Queue 0	
OUT : Initial	Login			🕨 2 Skills	

Verify the screen is updated to reflect agent in the **Ready** and **Connected** states, as shown below.



Make an incoming ACD call from the PSTN. Verify that the call is delivered to the agent, and automatically answered by the application with two-way talk paths.

Verify that an additional screen is popped up, that the agent state is **Working**, and that the screens reflect the proper calling party and called group information, as shown below.

- ag	ent2003	81			×
Agent	View	Services	Option	s Help	
R	eady		ut 💽	Complete	
⊘ Wo	rking 0:0	0:02	Olo	lest 0:00:00 Queu	ue0 ∣
Curren	t POC : A	VAYA_2	9000	≽ N	lo Skills
Î	- Ext	: 20031		X	
	Phone	Options	Help		
	1			Make Call	
	1	2	3	Transfer	
	4	5	6	Conference	
	7	8	9	Hold	
	*	0	#	Hang Up	
	Directory		Answer		
	In Conve	ersation : 9	90884856	01	

9. Conclusion

These Application Notes describe the configuration steps required for MedTel Services OMNIWorks to successfully interoperate with Avaya IP Office 9.0. All feature and serviceability test cases were completed with observation noted in **Section 2.2**.

10. 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.** *OMNIWorks*® *7 Administration & Maintenance Manual*, Part Number 610-0000-0791 Rev D, available on the OMNIWorks installation media.
- **3.** *OMNIWorks* ® 7 *Agent Console User's Guide*, Part Number 610-0000-0561 Rev E, available on the OMNIWorks installation media.
- 4. OMNIWorks Avaya IP Office Provider, available on the OMNIWorks installation media.

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