

Avaya Solution & Interoperability Test Lab

Application Notes for Configuring the Ascom i62 VoWiFi handset version 2.3.16 with Avaya IP Office Release 7.0 - Issue 1.0

Abstract

These Application Notes describe a solution for supporting wireless interoperability between the Ascom i62 VoWiFi handset with Avaya IP Office release 7.0. Emphasis of the testing was to verify voice calls with wireless Ascom i62 SIP handsets registered to the Avaya IP Office.

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 provide detail configurations of Avaya IP Office (hereafter referred to as IPO) and the Ascom i62 VoWiFi handset (hereafter referred to as i62) used during the compliance testing. The Ascom i62 was tested with non-SIP and SIP telephones using IPO Release 7.0. All the applicable telephony feature test cases of Release 7.0 were executed on the Ascom i62, where applicable to ensure that the interoperability with IPO.

2. General Test Approach and Test Results

The general test approach was to have the Ascom Wifi i62 telephone to register to the IPO. Calls were then placed from other IPO telephone clients/users to and from the Ascom Wifi i62 handset. Other telephony features such as busy, hold, DTMF, MWI and codec negotiation were also verified.

2.1. Interoperability Compliance Testing

Avaya's formal testing and Declaration of Conformity is provided only on the headsets/handsets that carry the Avaya brand or logo. Avaya may conduct testing of non-Avaya headset/handset to determine interoperability with Avaya phones. However, Avaya does not conduct the testing of non-Avaya headsets/handsets for: Acoustic Pressure, Safety, Hearing Aid Compliance, EMC regulations, or any other tests to ensure conformity with safety, audio quality, long-term reliability or any regulation requirements. As a result, Avaya makes no representations whether a particular non-Avaya headset will work with Avaya's telephones or with a different generation of the same Avaya telephone.

Since there is no industry standard for handset interfaces, different manufacturers utilize different handset/headset interfaces with their telephones. Therefore, any claim made by a headset vendor that its product is compatible with Avaya telephones does not equate to a guarantee that the headset will provide adequate safety protection or audio quality.

The focus of this testing was to verify that the i62 SIP telephone was able to interoperate with the IPO system. The following areas were tested:

- Registration of the i62 to the IPO.
- Call establishment of i62 with IPO telephones.
- Telephony features: Basic calls, conference, blind and consultative transfer, DTMF (dual tone multi frequency) RFC2833 and SIP Info transmission, voicemail with Message Waiting Indication (MWI) notification, busy, hold, hunt group, call waiting, bridge appearance and Call forward.
- Codec negotiation G.711 and G.729.
- i62 calls PSTN telephone via SIP trunk.

2.2. Test Results

The objectives outlined in **Section 2.1** were verified. The i62 was registered to IPO successfully. Calls have been made between IPO telephones and i62 with clear voice path.

2.3. Support

Technical support for the Ascom i62 handsets can be obtained through local Ascom suppliers. Ascom global technical support:

- Phone: +46 31 559450
- Email: support@ascom.se

3. Reference Configuration

Figure 1 illustrates the reference configuration used during compliance testing.

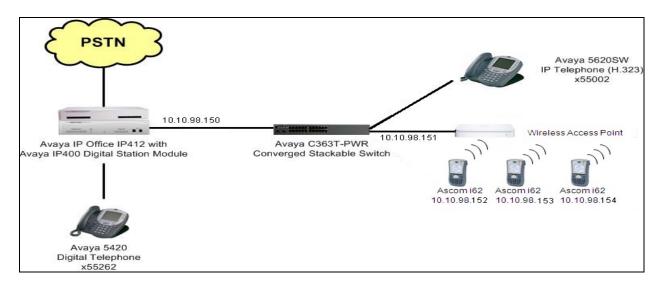


Figure 1: Network Configuration Diagram

4. Equipment and Software Validated

The following equipment and software/firmware were used for the reference configuration:

Equipment	Software Version
Avaya IP Office (IP500 v2)	7.0 (5)
Avaya IP Office Manager	9.0 (5)
Analog Telephones	N/A
Avaya 2420 Series Digital Telephones	6.0
Avaya 9600 Series IP Telephones	S6.016T
Avaya 9508 Series Digital Telephones	N/A
Avaya VoiceMail Pro	7.0 (17)
Ascom i62 VoWifi	2.3.16

5. Avaya IP Office & Extension Configuration

5.1. Avaya IP Office Configuration

This section was included to verify that Avaya IP Office was configured correctly. Except where stated, the parameters in all steps are the default settings and are supplied for reference. For all other provisioning information such as provisioning of the trunks, call coverage and voice mail, please refer to the Avaya IP Office product documentation in **Section 9**.

<u>Step 1</u>

Avaya IP Office is configured via the Avaya IP Office Manager program. Log into the Avaya IP Office Manager PC and select Start \rightarrow Programs \rightarrow IP Office \rightarrow Manager to launch the Avaya IP Office Manager application. Select File \rightarrow Open to search for IP Offices in the network. Click on appropriate Avaya IP Office. Click OK to continue Log in to the Avaya IP Office Manager application using the appropriate credentials.

<u>Step 2</u>

The main IP Office Manager window appears. The following steps refer to the Configuration Tree which is in the left pane of the window and under the heading **IP Offices** as shown in **Figure 2**.

	7060E91 [7.0(5)] [Administrator(Adm	inistrator)]		
File Edit View Tools Help	 00E007060E91] 2 🖻 - 🖃 🖃 🖬 🚺 🗸		
00E007060E91 System		00E007060E91		
K BOOTP (2)			й У	
Image: System (1) Image: System (1) Image: System (1) Image: System (1) <td>System LAN1 LAN2 DNS Voi Name Contact Information Set contact information to place Syste</td> <td>cemail Telephony Directory Services Sy 00E007060E91 em under special control</td> <td>Locale</td> <td>t Twinning VCM CCR</td>	System LAN1 LAN2 DNS Voi Name Contact Information Set contact information to place Syste	cemail Telephony Directory Services Sy 00E007060E91 em under special control	Locale	t Twinning VCM CCR
A Sind Code (65) Service (0) As (1) Code (1) Code (1) Code (1) Time Profile (1) Code (1) Time Record (1) Code (1) Co	TFTP Server IP Address HTTP Server IP Address Phone File Server Type Manager PC IP Address Avaya HTTP Clients Only Enable SoftPhone HTTP Provisioning Automatic Backup Command	0 0 0 0 0 0 0 0 0 0 0 0 Memory Card v 0 0 0 0 0 0 V	Branch Prefix Local Number Length	, over static routes
- We Tunnel (0) Be Law Rights (1) Auto Attendant (0) K ARS (1) K ARS (1) K ARS (1) K ARS Location Request (0) E	Time Setting Config Source Time Settings Time Zone Local Time Offset from UTC Automatic DST Clock Forward/Back Settings (Start Date - End Date(DST Offset))	None V (GMT-05:00) Eastern Time (U5 & Canada) -04:00 -04:00 V 3/14/2010 2:00 AM - 11/7/2010 2:00 AM(0)	11:00)	
	File Writer IP Address Dongle Serial Number AVPP IP Address Hide Auto Recording	0 0 0 0 0 0 Local 1302787498		
			QK	Cancel Help
		Error Lis	st	< >

Figure 2: IP Office System

<u>Step 3</u>

Verify VoIP information.

The Avaya IP Telephones will get Differentiated Services information from the Avaya IP Office. In the Manager window, from the Configuration Tree, click **System** \rightarrow **LAN1** \rightarrow **VoIP** Verify that the **DiffServ Settings** for **DSCP** and **SIG DSCP** are both set to 46. If they are not 46, change them and then click **OK** to continue as shown in **Figure 3**.

Note: 00E007060E91 is the MAC address of this specific IP Office and will be different for all IP Offices.

🖬 Avaya IP Office R7 Manager 00E0070	50E91 [7.0(5)] [Administrator(Administrator)]
<u>Fi</u> le <u>E</u> dit ⊻iew <u>T</u> ools <u>H</u> elp	
00E007060E91 💌 System	ODE007060E91
IP Offices	E 00E007060E91
 BOOTP (2) Coperator (3) Coperator (3) System (1) Control Unit (5) Control Uni	System LAN2 PNS Voicemail Telephony Directory Services System Events SMTP SMDR Twinning VCM CCR LAN Settings VolP Network Topology SIP Registrar I H323 Gatekeeper Enable SIP Trunks Enable SIP Trunks Enable Port Range H323 Auto-create Extn Port Range (Minimum) P9152 H323 Auto-create User Port Range (Maximum) S3246 Port Sol05 DisCP Mask (Hex) Bit Sig DSCP (Hex) DisCP (Hex) C DisCP Mask (Hex) Bit Sig DSCP (Hex) I Enable RTCP Monitoring DisCP Mask (Hex) Bit Sig DSCP (Hex) DisCP (Hex) C DisCP Mask (Hex) Bit Sig DSCP (Hex) I Enable RTCP Monitoring DisCP Mask (Hex) Bit Sig DSCP (Hex) I DisCP (Hex) C DisCP Mask (Hex) Bit Sig DSCP (Hex) VAN Number (SSON) 176 VAN Not Present Into Vian VIAN Site Specific Option Number (SSON) 22 I 100 Voice VIAN Dis Disabled Prindad Prindad Prindad Repairves Disabled Prindad Disabled Prindad
	OK Cancel Help
	Error List
Received BOOTP request for 0019e1e6b066, 0.0.0.	0:68, unable to process

Figure 3: System Lan1 VoIP Settings

Step 4 Disable DHCP server on Avaya IP Office.

From the Configuration Tree, click System \rightarrow LAN1 \rightarrow LAN Settings. Set the DHCP Mode to Disabled. Click OK to continue as shown in Figure 4.

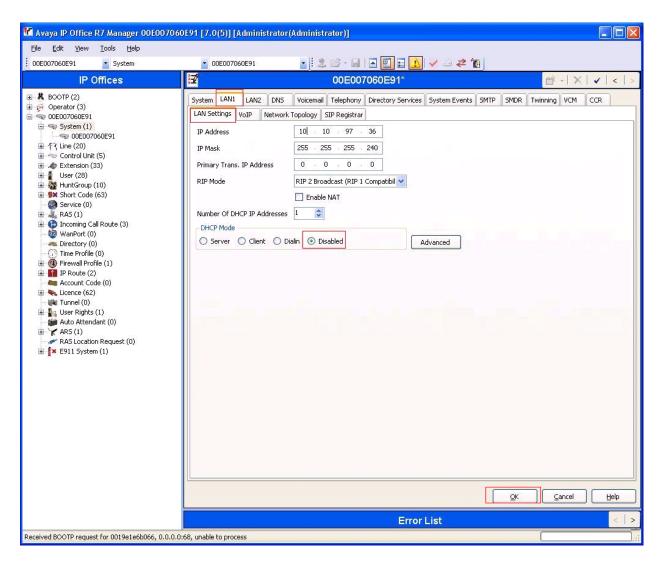


Figure 4: Disable DHCP

5.2. SIP Extension Configuration

This section was included to show basic SIP Extension configuration. Except where stated, the parameters in all steps are the default settings and are supplied for reference. For all other provisioning information such as provisioning of the trunks, call coverage and voice mail, please refer to the Avaya IP Office product documentation in **Section 9**.

<u>Step 1</u>

Avaya IP Office is configured via the Avaya IP Office Manager program. Log into the Avaya IP Office Manager PC and select Start \rightarrow Programs \rightarrow IP Office \rightarrow Manager to launch the Avaya IP Office Manager application. Select File \rightarrow Open to search for IP Offices in the network. Click on appropriate Avaya IP Office. Click OK to continue. Log in to the Avaya IP Office Manager application using the appropriate credentials.

<u>Step 2</u>

The main IP Office Manager window appears. The following steps refer to the Configuration Tree which is in the left pane of the window and under the heading **IP Offices** as shown in **Figure 2**.

Step 3

Create SIP Extension.

From the Configuration Tree, right mouse click on Extension and select New \rightarrow SIP Extension (not shown). Enter a unique Base Extension as shown in Figure 5.

Manager 00E00706	0E91 [7.0(5)] [Administrator(Administrator)]	
<u> Eile E</u> dit <u>V</u> iew <u>T</u> ools <u>H</u> elp			
00E007060E91 Extension	8000 28000	🛓 🖄 🗁 🖬 🖪 🔜 🖬 🚺 🖌 🛶 🍅	
IP Offices	*=	SIP Extension: 8000 28000	≝ - X √ < >
BOOTP (2) Operator (3)	Extn VoIP T38 Fax		
😑 🤜 00E007060E91	Extension Id	8000	
System (1) OOE007060E91	Base Extension	28000	
।	Caller Display Type	On 🗸	
Extension (33)	Reset Volume After Calls		
	Device type	Unknown SIP device	
	Module	0	
	Port	0	
	Force Authorization		

Figure 5: Create SIP Extension

<u>Step 4</u>

Verify Direct Media Path.

Click the **VoIP** tab. Verify that **Allow Direct Media Path** is checked. Click **OK** (not shown) to continue as shown in **Figure 6**.

Eile Edit <u>V</u> iew Iools <u>H</u> elp 00E007060E91 • Extension	8000 28000		1 💷 💷] ✔ ⊴ ≄ 1
IP Offices		SIP Extension:	8000 2800	00 00
BOOTP (2) Operator (3) Operator (3) System (1) Operator (3) System (1) Operator (20) Control Unit (5) Control Unit (5) Operator (20) Operator (20)	Extn VoIP T38 Fax IP Address Compression Mode Fax Transport Support TDM->IP Gain IP->TDM Gain DTMF Support	0 0 0 0 0 0 0 0 Automatic Select None Default Default RFC2833	> > > > >	 VoIP Silence Suppression Local Hold Music Allow Direct Media Path Re-invite Supported Use Offerer's Preferred Codec Reserve Avaya IP endpoint license Reserve 3rd party IP endpoint license

Figure 6: Allow Direct Media Path Setting

<u>Step 5</u>

Create User.

From the Configuration Tree, right mouse click on User and select New (not shown). Enter a user Name for the extension that was created in Step 3. Enter a Password and Confirm Password value. Enter the Extension that was created in Step 3 as shown in Figure 7.

👫 Avaya IP Office R7 Manager 00E0	07060E91 [7.0(5)] [Administra	ator(Administrator)]		
File Edit View Tools Help				
00E007060E91 💽 User	28000 Extn28000 1140	405 🔄 🛃 🖄 🖙 - 🔙 🖪 🖳 📰	ا 🗹 🗢 🧹 🚺	
IP Offices		Extn28000		→ × × × × × × × × × × × × × × × × × × ×
BOOTP (2)	User Voicemail DND 5	ShortCodes Source Numbers Telephony	Forwarding Dial In Voice Recordin	ng Button Programming Menu F
 	Name	Extn28000 Ascom		
Grand System (1)	Password	***		
⊞ 17ि Line (20) स ≪ Control Unit (5)	Confirm Password	***		
🖅 🛷 Extension (33)	Full Name	Extn28000 Ascom		
User (28)	Extension	28000		
201 Extn201 9508D 202 Extn202 2420D	Locale		~	
202 Exth202 2420D	Priority	5	*	
204 Extn204 205 Extn205	System Phone Rights	None	¥	
206 Extn206	Profile	Basic User	~	



<u>Step 6</u>

Click **Telephony** tab and **Supervisor Settings** sub-tab. Enter a **Login Code**. 1234 was used for the compliance testing. The **Login Code** is used by the Ascom i62 Handset to log in to the Avaya IP Office, it will be configured in **Section 6.1**, **Figure 17**. Click **OK** (not shown) to continue. The changes must be saved before they will take effect, click to the **I** icon to save the configuration as shown in **Figure 8**.

🌃 Avaya IP Office R7 Manager 00E0076	060E91 [7.0(5)] [Administrator(Administrator)]	
File Edit View Tools Help 00E007060E91 • User	🔹 28000 Extra28000 11405 🔹 🗄 📚 🗁 - 🗐 🛋 🖭 🖬 🚺	✓ _ ≠ M
IP Offices	Extn28000 1140S: 28000*	<u> </u>
BOOTP (2) Operator (3) Operator (3) Operator (3) Operator (3) Operator (3) Operator (3) Operator (1) Operator (1) Operator (1) Operator (1) Operator (2) Ope	User Voicemail DND ShortCodes Source Numbers Telephony Forw. Call Settings Supervisor Settings Multi-line Options Call Log Login Code ***** Login Idle Period (secs) Monitor Group <none> Coverage Group <none> Status on No-Answer Status on No-Answer Reset Longest Idle Time All Calls External Incoming After Call Work Time (secs) System Default (10)</none></none>	arding Dial In Voice Recording Button Programming Menu F Force Login
212 Extn212 213 Extn213 214 Extn214 215 Extn215 216 Extn216 225 Extn225 500 226 Extn226 500 226 Extn226 500 □ 226 Extn226 500		

Figure 8: Telephony Supervisor Settings

<u>Step 7</u> Repeat Step 3 through to Step 6 for additional Extensions.

6. Configure Ascom VoWifi i62 SIP

This section describes how to access and configure the Ascom i62 VoWiFi handset via the Windows Device Manager called WinPDM version 3.8.1. The Device Manager software can be downloaded via Ascom extranet and installed on a Windows PC. Remote device management "over the air" provides a similar graphical user interface. Insert the handset to be configured in the DP1 USB cradle, start the Ascom Device Manager, and select the "Devices" tab. The inserted i62 set is now being indicated with a check mark under the **Online** column as shown in **Figure 9**.

👸 Belleville - A	scom WinPDM							X
File Device Nu	umber <u>T</u> emplate	License Options	Help					
Devices Numbe	ers Templates Lice	nses						
Delete Upgrade	software Cancel		in: Device 1	D → Sh	ow all			
(All)		Device type	Laurenter de la companya de la compa	Parameter version	Upgrade status	Online	Latest number	
i62 Messenger	00013E1218E2	i62 Talker	2.3.16	14.7	opg. dde statas	C. Marte	54008	1
i62 Talker	00013E121938	i62 Talker	2.3.16	14.7			54009	
	00013E122683	i62 Messenger	2.3.16	14.7		~	54004	
								-
								1

Figure 9: Ascom Device Manager Devices Tab

Select the **Numbers** tab as shown in **Figure 10**. Click on the **New** icon to add a new number **28000** in this example.

THE DEVICE INC	umber lemplate	e License Optic	ons Help					
Devices Numbe	rs Templates L	icenses						
New Edit Dele	search for:		in: []	Number	▼ Sho	w all		
All)	Number	Device type	Parameter v	Device ID	Online	Status	Saved	Last run tem
62 Messenger	54004	i62 Messenger	14.7	00013E122683		Synchronized	1	
62 Talker	54008	i62 Talker	14.7	00013E1218E2		Synchronized	~	
	54009	i62 Talker	14.7	00013E121938		Synchronized	~	

Figure 10: Ascom Device Manager Numbers Tab

There is a dialog box popping up as shown in **Figure 11.** Enter **28000** in the textbox of **Call number** parameter. Click **OK** to create the new number in the **New Numbers** table.

QT; Reviewed:	Solution & Interoperability Test Lab Application Notes	11 of 18
SPOC 1/19/2012	©2012 Avaya Inc. All Rights Reserved.	Ascomi62-IPO7

Device type:	i62 Messen	iger 👻
Parameter version:	13.16	-
Template:	None	
● Single Call nu	: umb <mark>er:</mark>	28000
⊚ <u>R</u> ange St <u>a</u> rt o	all number:	[

Figure 11: Device Manager Add New Numbers

On the **Numbers** tab, the number **28000** is now shown up on the **Number** list as shown in **Figure 12**.

Eile Device N	scom WinPDM	Lissan Ontin	as Usla						×
		e License Optio	n <u>s H</u> eip						
Devices Numbe	ers Templates Li	icenses							
New Edit Dele	K ete								
Device types:	Search for:	1	in: N	Number	✓ Sho	w all			
-	Segration.								
(All)	Number	Device type	Parameter v	Device ID	Online	Status	Saved	Last run tem	
(All) i62 Messenger		Device type i62 Messenger	12	Device ID	Online	Status Synchronized	Saved	Last run tem	1.
(All)	Number		Parameter v	Device ID 00013E122683	Online			Last run tem].
(All) i62 Messenger	Number 28000	i62 Messenger	Parameter v 14.7		Online	Synchronized	~	Last run tem].
(All) i62 Messenger	Number 28000 54004	i62 Messenger 62 Messenger	Parameter v 14.7 14.7	00013E122683	Online	Synchronized Synchronized	~	Last run tem] ^
(All) i62 Messenger	Number 28000 54004 54008	i62 Messenger 62 Messenger i62 Talker	Parameter v 14.7 14.7 14.7	00013E122683 00013E1218E2	Online	Synchronized Synchronized Synchronized	~	Last run tem	•

Figure 12: Device Manager with New Number Added

Right click on the newly created number **28000** and choose the **Associated Numbers** to associate the new number with the i62 physical device being inserted as shown in **Figure 9**. Pop up **Associated Number** window appears as shown in **Figure 13**. Choose the i62 set to associate the number with and click **OK** to assign the number.

hoose a device	to associate with	i					
Device ID	Device type	Software version	Parameter version	Upgrade status	Online	Latest number	
00013E122683	i62 Messenger	2.3.16	14.7		~	28000	
			ice ID	Show all			

Figure 13: Associate a Number to Physical Set

Figure 14, below, shows the inserted i62 set with its assigned number 28000 in the Numbers table.

Belleville - A	scom WinPDM	Licence Ontic	ang Holo						X
			uz Teib						
Devices Numbe	ers Templates Li	icenses							
	K								
New Edit Dele	, ete								
					10.				
D <u>e</u> vice types:	Search for:		in: [Number	▼ Sho	o <u>w</u> all			
			1		1.06		250		
The constant and the cost of door of	Number	Device type	Parameter v	Device ID	Online	Status	Saved	Last run tem	
62 Messenger	Number 28000	Device type i62 Messenger	Parameter v 14.7	Device ID 00013E122683	Online	Status Synchronized	Saved	Last run tem	
(All) 62 Messenger 62 Talker	Number		the second se					Last run tem	
62 Messenger	Number	i62 Messenger	14.7	00013E122683		Synchronized	~	Last run tem	
62 Messenger	Number 28000 54008	i62 Messenger 162 Talker	14.7 14.7	00013E122683 00013E1218E2		Synchronized Synchronized	✓ ✓	Last run tem	
62 Messenger	Number 28000 54008	i62 Messenger 162 Talker	14.7 14.7	00013E122683 00013E1218E2		Synchronized Synchronized	✓ ✓	Last run tem	

Figure 14: New Number with Associated i62 Set

Double click on the entry for the handset to be configured, select the Network \rightarrow Network A, Edit parameters for 28000 window will appear as shown in Figure 15. Fill in the parameters with appropriate values as highlighted in red.

Note: This setting is one of many ways to configure the network set up for the i62 handset. For more information how to configure this in a different way, refer to **Reference [2]**.

evice type: i6	2 Messenger		
arameter version: 14	1.7		
	Name	Value	
···· Network A	Network name		0
Network B Network C	DHCP mode	Disable (static mode)	0
Network D	Phone IP address	10.10.98.152	0
Device	Subnet mask	255.255.255.224	0
Audio	Default gateway	10.10.98.129	8
Presence	Primary DNS	10.10.98.60	8
Location	Secondary DNS	0.0.0.0	0
	802.11 protocol	802.11 b/g/n	0
Customization	SSID	WIRELESS ACCESS POINT	2
	Security mode	Open	2
	Voice power save mode	U-APSD	2
	802.11b/g/n channels	1,6,11	2
	Advanced: 802, 11 channels		0
Shortcuts	World mode regulatory domain	World mode (802.11d)	2
Jinor cours	Transmission power	Automatic	0
	IP DSCP for voice	0x2E (46) - Expedited Forwarding	0
	IP DSCP for signalling	0x1A (26) - Assured Forwarding 31	0
	TSPEC Call Admission Control	Disable	2
	Transmit gratuitous ARP	Disable	0
	Deauthenticate on roam	Disable	0
	Maximum transfer unit	1400	2

Figure 15: Network Parameters

Select VoIP \rightarrow General menu, and enter the values highlighted in red as shown in Figure 16. Click OK (not shown) to save the change.

Device type:	i62 Messenger		
Parameter version:	14.7		
- Network	Name	Value	
Device	Replace Call Rejected with User Busy	Enable	6
Presence	VoIP protocol	SIP	
- Location	Codec configuration	G.711 u-law	
and the second sec	Codec packetization time configuration	20	
	Internal call number length	5	
General	Endpoint number	28000	
• H.323	Endpoint ID	28000	

Figure 16: VoIP General Parameters

Select VoIP \rightarrow SIP menu point, and enter the values highlighted in red as shown in Figure 17. Click OK (not shown) to save the changes.

evice type: i62 M	essenger		
arameter version: 14.7			
Network	Name	Value	
Device	SIP proxy IP address	10.10.97.36	6
Audio Presence	Secondary SIP proxy IP address	0.0.0.0	6
	SIP proxy listening port	5060	
Location	SIP proxy ID		
	SIP proxy password	******	
General	Send DTMF using RFC 2833 or SIP INFO	RFC2833	(
• H.323	Hold type	Inactive	
SIP	Registration identity	Endpoint ID	
Customization Services	Authentication identity	Endpoint ID	
Push-To-Talk	Call forward locally	Enabled	
	MOH locally	Enabled	
Headset	Hold on Transfer	Enabled	
Profiles	Direct signaling	Enabled	
bortcuts	SIP Register Expiration	120	

Figure 17: VoIP SIP Parameters

7. Verification Steps

This section includes some steps that can be followed to verify the configuration.

Step 1

Verify that the Ascom Wifi i62 telephone registers successfully to the IPO by logging into the Avaya IP Office Manager PC and select Start \rightarrow Programs \rightarrow IP Office \rightarrow Monitor to launch the Avaya IP Office Monitor application. Click on the Play button as shown in Figure 18. Turn on the i62 handset. Observe the log on the monitor screen, it should show the registration of the i62 to IPO as shown in Figure 18.

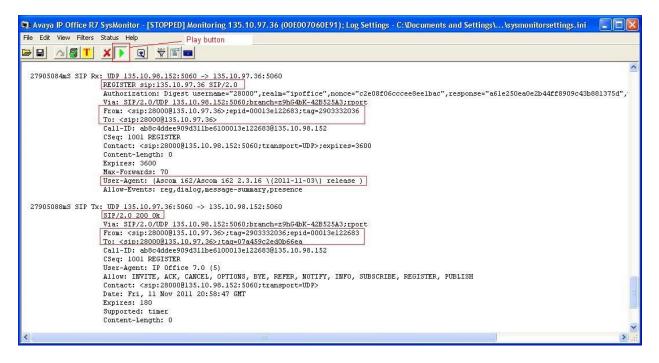


Figure 18: Monitor of i62 Registration

Step 2

Making a voice call from the Ascom i62 extension **28000** to IPO telephones, verify clear voice path between them.

8. Conclusion

These Application Notes illustrate the procedures necessary for configuring the Ascom i62 VoWifi handset to interoperate with the Avaya IP Office. All feature functionality test cases described in **Section 2.2** were passed.

9. Additional References

This section references documentation relevant to these Application Notes. [1] Avaya product documentation is available at <u>http://support.avaya.com</u>. *IP Office Installation Manual*, May 22, 2011, Document Number 15-601042. *IP Office Manager*, May 22, 2011, Document Number 15-601011. *System Status Application*, February 12, 2010, Document Number 15-601758. *Voicemail Pro: Installation Manual*, May 1, 2011. *Voicemail Pro: Administration Manual*, May 1, 2011, Document Number 15-601063. *IP Office System Monitor*, November 28, 2008, Document Number 15-601019.

[2] Ascom's technical documentation is available through a local supplier: User Manual Ascom i62 VoWiFi Handset (TD 92599GB)
Configuration Manual Ascom i62 VoWiFi Handset (TD 92675GB)
System Description Ascom VoWiFi System (TD 92313GB)
System Planning Ascom VoWiFi System (TD 92408GB)

Information about the Ascom i62 VoWiFi handset is available at http://www.ascom.com/en/index/products-solutions/our-solutions/product/i62/solutionloader.htm

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