Gigaset pro

Third Party Interoperability Testing





Desktop Phones DE310 DE410 DE700 DE900 DX800A

Copuet Notario



N510 pro Business class IP DECT system

N720 pro MultiCell IP DECT System









Page 1 of 14



Contents

CHANGE HISTORY	2
1. OVERVIEW	3
1.1. INTRODUCTION 1.2. SESSION INITIATION PROTOCOL	3
2. TESTING CONFIGURATION	3
2.1. SOFTWARE VERSIONS	3
3. CONFIGURATION	4
3.1. GIGASET3.2. CORRECT PROCEDURE FOR INITIATING CALL TRANSFERS FROM A GIGASET DECT HANDSET:	4 13
4. TEST RESULTS	14

Change History

Document revision	Date	Aut hor ed by	Sections affected	Reason for change
Rev 001	30 September 2013	JL	All	Initial release
Rev 002	30 May 2014	JL	All	Hyperlink updates mainly







1. Overview

1.1. Introduction

This document provides a summary of how the Voipfone Hosted PBX Service can interoperate with Gigaset pro IP DECT Cordless systems and phones. This is a Gigaset pro "self-certification" document based on own testing with Voipfone.

1.2. Session Initiation Protocol

Session Initiation Protocol (SIP) is a simple protocol that facilitates peer-to-peer communication sessions. Users (or, in general, any addressable entities) in a SIP framework are identified by Universal Resource Identifiers (URI). Each such Internet-style address (for example, sip: johndoe@proximitycomms.com) maps into one or more Contacts, each of which typically represents a device or service at which the corresponding user may be reached. The SIP framework is responsible for routing a request for a peer-to-peer session addressed to a given URL to one or more appropriate contacts for that URL. The framework may utilise information about the preferences, presence and location of the user identified by the URL, to determine the most appropriate contacts. The protocol also provides mechanisms to specify the type of session that is requested as well as means to change session parameters.

It is important to understand that SIP is not a standardised protocol but in fact is an IETF RFC (**R**equest **F**or **C**omment). An RFC is a document that describes the specifications for a recommended technology. If the specification is ratified it becomes a standards document. At the time of producing this document SIP still remains a RFC. Not all RFCs become standards; some are designated indefinitely with Informational or Experimental status. Therefore interoperability of two SIP devices is not guaranteed; this is why Gigaset pro has produced this document to explain the configuration and features available when using its products with third-party providers' services.

Full details of the SIP IETF RFC can be found here: <u>http://www.ietf.org/rfc/rfc3261.txt</u>

2. Testing Configuration

2.1. Software versions

The following software versions were used during the testing by Gigaset pro

Device	Software version
Voipfone	
Gigaset N300IP & N510 pro	42.075
Gigaset N720DM pro	70.073
Gigaset DE310 & DE410	02.00.05
Gigaset DE700 & DE900	02.00.08





3. Configuration

3.1. Gigaset

The screenshots are those of an N510pro however similar configuration parameters are shared across the Gigaset IP product portfolio.

Under the menu heading **Connections** edit the first VoIP account IP1 [note: up to six VoIP accounts/DECT Users can be configured on the N300IP and N510pro, whilst up to 100 Users on the N720 pro system]. Enter the VoIP account User credentials and global PBX settings:

Home	Home Settings Status		Status	
Network			1. IP Connection	
Telephony				Assign a connection name or actual phone number for identification.
Connections		0.		
Audio Number Assignmer	at	0	nnection Name or Number:	VolPfone
Call Divert		VolP Cont	figuration / Profile	
Dialling Plans			Download	
Network Mailboxes				Start Configuration Assistant
Advanced VoIP setti	ngs		Drovidori	Vainfana
Messaging			Provider:	Voipfone
Info Services			Profile Version	d_voipfone_uk.bin 1307532360
Directories		Perso	nal Provider Data	
Management		Aut	hentication name:	30151262*201
		Authent	lication password:	•••••
			Username:	30151262*201
			Display name:	201
				Hide Advanced Settings
		Gen	eral data for your service provider	
			Domain:	sip.voipfone.net
		Pro	xy server address:	sip.voipfone.net
			Proxy server port:	5060
		R	egistration server:	sip.voipfone.net
		Regis	tration server port:	5060
		Registr	ation refresh time:	60 sec
		Netv	vork data for your service provider	
			STUN enabled:	• Yes • No
		STU	N server address:	
			STUN server port:	3478
		S	TUN refresh time:	240 sec
			NAT refresh time:	20 sec
		Outb	ound proxy mode:	Always Automatic O Never
		Outbour	id server address:	
		Οι	itbound proxy port:	5060
		Selec	t Network Protocol	Automatic 🔹
				Set Cancel Delete Connection



Page 4 of 14



Click Set and note the Status changes to Registered:

Home	Settings	Status					
Network	Overv	iew of connections					
Telephony Connections			Name	Provider	Status	Active	
Audio		1.	VolPfone	Voipfone	Registered		Edit
Number Assignment Call Divert		2.	IP2	Other Provider	Not configured	•	Edit
Dialling Plans Network Mailboxes		3.	IP3	Other Provider	Not configured	•	Edit
Advanced VoIP settings		4.	IP4	Other Provider	Not configured		Edit
Messaging Info Services		5.	IP5	Other Provider	Not configured		Edit
Directories		6.	IP6	Other Provider	Not configured		Edit
Management	Prov	vider or PBX profile					
			A profile contain	s all relevant setting	s for your provider	or phone s	ystem (PBX).
	Autom	atic check for profile updates:	🔍 Yes 🏾 🔍 N	0			
			Upd	late Profile			
			Set	Cancel			

Select the **Number Assignment** menu option:

Ensure that the correct connection is used for both outgoing and incoming calls.

Home	Setti	ngs	Status					
Network Telephony				Select the connection incoming calls for e		lls and a	lso one or more co	nnections for
Connections			Handsets					
Audio			INT 1	Name 201				
Number Assignmer Call Divert				Connection	for outgoing calls	for inco	oming calls	
Dialling Plans				VolPfone	۹	V		
Network Mailboxes				Select line for each				
Advanced VoIP settir	ngs			outgoing call	•			
Messaging			Call Manager					
Info Services				Select the connection	on and the associ	ated han	idset for your PC Ca	all Manager.
Directories				Connection	Enable Call Man	ager	Handset	
Management				VolPfone	No	•	INT 1 💌	
				Cot	Canaal			
				Set	Cancel			



Page 5 of 14 Gigaset pro



Select the **Network Mailboxes** menu option:

Enter the network voicemail access number.

	Home	Settin	gs	Status			
1	Vetwork		Ne	twork Mailboxes			
1	Telephony				Connection	Call number	Active
	Connections				VolPfone	1571	V
	Audio						
	Number Assignment						
	Call Divert						
	Dialling Plans						
	Network Mailboxes						
	Advanced VoIP settings						
I	Messaging						
I	nfo Services						
[Directories						
1	Management				Set	Cancel	

Select the **Messaging > MWI Light** menu option:

Ensure the Network Mailboxes is checked. Missed call notification is optional.

Home	Settings	Status			
Network Telephony	,	Nessage Waiting Indicator (MWI)			
Messaging eMail		INT 1	You can enable o for the following r		ng MWI LED in the message key on your handsets
MWI Light Info Services		1111	Missed calls		
Directories			Missed alarms	-	
Management			eMail		
			Network Mailboxe	es 🔽	
			Set	Cancel	



Page 6 of 14



Select the **Date & Time** menu option: Enter your preferred NTP server.

Gigaset	N510 IP PRO		
Home	Settings	s Status	
Network		Date & Time	
Telephony Messaging		Automatic adjustment of System Time with Time Server:	🔍 Yes 🔎 No
Info Services Directories Management		Last synchronisation with time server:	08.10.2012 12:40
Date & Time		Time Server:	uk.pool.ntp.org
Local Settings		Time Zone:	(GMT±00:00) Greenwich Mean Time : Dublin, Edinburgh, L
Miscellaneous		Automatically adjust clock	🔍 Yes 🔍 No
Reboot & Reset	f	for daylight saving changes:	
Save & Restore			
Firmware Update			

Select the **Local Settings** menu option: Ensure that the UK Tone scheme is selected.

Gigaset N510 IP	PRO				
Home	Settings	Status			
Network Telephony		Select Country	The international cou	untry code will be initialized wi	hen the country is selected.
Messaging Info Services		Country:	United Kingdom		
Directories Management		Area Codes	I		_
Date & Time		International:	Prefix 00	Code Number 44	
Local Settings		Local:	Prefix 0	Code Number	
Miscellaneous Reboot & Reset	Use Area	Code Numbers for Calls via VolP:			
Save & Restore		Local	🛡 Yes 🔍 No		
Firmware Update			🛡 Yes Ϋ No		
		Tone Selection			
		Tone Pattern:	United Kingdom		



Page 7 of 14



Select the **Advanced VoIP Settings** menu option: Ensure that **Transfer Call By On-Hook** is selected

Home Se	ettings Status	Log Off
Network Telephony	DTMF over VoIP connections	?
Connections Audio	Automatic negotiation of DTMF transmission	O Yes ● No
Number Assignment Call Divert	Call Transfer	When using G.722-Codecs (wide-band connection) DTMF signals cannot be transmitted via audio.
Dialling Plans Network Mailboxes	Use the R key to initiate call transfer.	O Yes 💿 No
Advanced VoIP settings Messaging	Transfer Call by On-Hook:	🖸 Yes 💿 No
Info Services		You can define the choice of target address in the SIP protocol.
Directories Management	Find target addr. automatically:	O Yes O No
	Derive target address:	Irom the SIP URL
	lield on transfer torget	○ from the SIP contact header
	Hold on transfer target:	For attended transfer
	Hook Flash (R-key)	R-key settings are disabled because the R key is used for call transfer.
	Listen ports for VoIP connections	
	Use random ports:	• Yes • No
	SIP port:	5060 - 5076
	RTP port:	5004 - 5020
	Music on hold	
		O Yes 💿 No
		Set Cancel



Page 8 of 14



Additional settings for DExxx Desktop Phones:

BLF & Call Pick-up

[Note with the Voipfone service after initiating a Call Pick-up the PBX will initiate a new call back to the User]

Gigaset DE700 IP PR	D	
Logged in as administrator	Log out Configuration Assistant	Settings
 Network and Connections Telephony Messaging 	Program Keys Key	PK1
 Services Function Keys System 	Function Select Connection Name	BLF •
	Phone Number Directed Call Pickup Code	30151262*201 **201
		Save Cancel



Page 9 of 14



Additional settings for DExxx Desktop Phones:

Optional – Preferred method for setting up VoiceMail

Introduction:

Personally I am not a great fan of MWI for missed calls. I believe the Message Envelope should only flash to alert you to new/unheard vMail, whereas in default it flashes for both missed calls & vMail – a "red herring"!

Also I think it looks very confusing on the display when there is a missed call counter together with a new vMail counter also! Particularly on DE310/DE410 with a limited black/white display. Therefore I have changed the default behaviour on my phone. In order for you to see what I mean & to test for yourself, please set your phone up as below in the order of the following steps:

- 1. On the phone itself, press the SoftKey **Calls**& scroll to **All Calls**. Scroll to **Delete List**& select to delete all. This will clear the Missed Call counter also (or if you prefer just select Missed Calls& Delete All).
- Browse to the WEB UI. Go to Telephony > Connections & edit the Voipfone VoIP Connection. Show Advanced Settings & scroll down to the bottom. Check the radio button to disable Missed Call Count & Save:

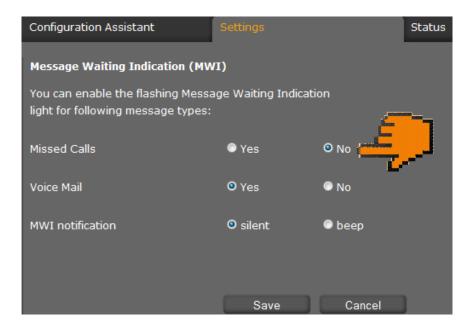
Outbound Proxy Port	5060		
Automatic Negotiation of DTMF Transmission	• Yes	O No	
Send Settings for DTMF Transmission	 □ Audio ☑ RFC 2833 □ SIP Info 		
Missed/accepted calls count	Yes	O No	
Call Waiting	Signal in display		
Melody	05_Gigaset		Test
Melody - External Call	01_call1	•	Test
Melody - Internal Call	05_Gigaset	•	Test
Melody - Group Call	05_Gigaset	•	Test
	Save	Cancel	Delete connection







3. Go to **Messaging** > **MWI** & check the radio button **Missed Calls** to No & Save:



4. Go to Function Keys & scroll to Speed Dial. Enter the Voipfone vMail access code 1571 into the 1 Key & Save. This will provide the User with the same experience found on Gigaset DECT handsets whereby pressing & holding 1 drops you straight into your MailBox:

Speed Dial						
	You can allocate a phone number to a numeric key, which is activated by holding down the key.					
	Keys	Phone Number				
	1	1571				
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
		Save Cancel				





INSPIRING CONVERSATION

5. Scroll down to Pre-programmed Keys. Change the function for the MWI key to **DTMF code** & enter 1571 & Save:

Pre-programmed Keys			
	K	Function	DTMF code
	Keys	Function	DTMF code
Ć		DTMF code 🔻	1571
	•	Default 🔻	
	<i>C</i>	Default -	
	ALL	Default 👻	
	●→●	Default 🔹	
		Save	Cancel

6. Close WEB UI session

Test:

- 1. Leave yourself new vMail messages.
- 2. Note the Envelope flashing.
- 3. Note also the new message counter increments for each new message received.
- 4. There are two ways to easily access your mailbox:
 - a. either: Press & hold 1 (same function as for Gigaset DECT handsets thereby same User experience).
 - b. or: Press the Envelope key.

INFO NOTE: All of the above settings can be Auto Provisioned into the Gigaset Device using plain XML via appropriate Redirection methods, thereby achieving a Zero-Touch experience with a new device for the End User.





3.2. Correct procedure for initiating Call Transfers from a Gigaset DECT handset:

During an established call, proceed as follows:

- 1. Press either the **R** key (Recall/Hookflash-telecoms terminology!) or the soft key **Ext.Call** (as indicated in the display during the call) to place the call on hold. Either will have the effect of signalling to the PBX to place the call on hold.
- 2. Enter the telephone number of the User you wish to call and wait for ringing.
- 3. At this stage you can either:
 - Blind Transfer hang up to transfer the call unannounced
 - Consultative Transfer wait for the other party to answer, then consult/announce the call and hang up. Or it could be that the other party doesn't wish to speak with the Caller in which case select the displayed option to **END ACTIVE CALL** and you will be connected to the Caller once again.





Page 13 of 14



4. Test Results

See published results here

[Highlights only – full test plan results available upon request]

Further configuration details can be found in the product specific Admin Guides which are available for download in the Gigaset pro <u>WiKi</u>.

Comments or questions in relation to this document should be addressed to the originator:

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Page 14 of 14

