

# 1 Nokia phones

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## 1.1 Nokia E52/E75/N97



E52:



E75



N97:

For information see the NOKIA homepage:

<http://www.nokia.de/produkte/mobiltelefone>

Produkt-Modell: Nokia E52, E75, N97

Software Version: show firmware version on phone with “\*#0000#”  
 Nokia E75-(RM-412): S60, VoIP Rel 3.1, Firmware 202.12.01  
 Nokia E52 (RM-469): S60, VoIP Rel 3.1, Firmware 33.002(.237.03)  
 Nokia N97 (RM-505): S60, VoIP Rel 3.1, Firmware 21.0.045(.238.03)

SIP VoIP Settings: E52/E75: SIP\_VoIP\_3\_x\_Settings\_v2\_0\_en.sis  
 N97: SIP\_VoIP\_3\_1\_Settings\_S60\_5\_x\_v1\_0\_en.sis

### 1.1.1 Basic Configuration

#### **Nokia E52/E75/N97 SIP client configuration:**

1. Install SIP VoIP 3.x Settings application (SIP\_VoIP\_3\_x\_Settings\_v2\_0\_en.sis) on your mobile device using Nokia PC Suite.
2. *Menu-> Ctrl. Panel-> Net settings-> Advanced VoIP settings-> Create new service:*
3. Select *Create new SIP profile* option:
4. Configure *Username* "<SIP call number>@<OpenScape Office/HG1500 IP address>"
5. Configure *Password* "<password>" if authentication is configured in OpenScape Office/HiPath: UserID = <SIP call number> and Realm = <OpenScape Office/HG1500 IP address>
6. Answer following question "*Would you like to create presence settings for the service?*" with "No"
7. Select following option for "*Activate service*"
8. Now the WLAN configuration is started, if not yet done:
9. Select your WLAN network (SSID is should be displayed) and enter Preshared key (PSK)

Nokia phone does not allow editing of SIP profile settings as long as VoIP Service is active. If editing is necessary, then switch phone temporarily to Offline mode and do not allow WLAN access in Offline mode: *Menu-> Ctrl. Panel-> Profiles-> Offline* (or: *push red on hook button* and select *Offline*).

The VoIP service is activated again after switching to profile *General* and next *internet call* attempt.

It is recommended to **disable "Comfort Noise" (CN)** in SIP profile, to get better voice quality. Nokia phone shows this setting as "CN codec", that is relevant for G.711 and iLBC codec if it exists in VoIP settings.

1. Switch phone to Offline mode
2. *Menu-> Ctrl. Panel-> Net settings-> Advanced VoIP settings->VoIP services-> Select your Service-> Codecs:*
3. Select the "CN" codec and delete it
4. switch phone back to profile *General*.

### 1.1.2 Hold/Retrieve/Alternate

To be completed

### 1.1.3 Transfer

Attended Transfer is supported.

### 1.1.4 CLIP/CLIR/CNIP - Name and Number presentation

The phone can display names (default) or the call number

To be completed

**1.1.5 Call Waiting / Call offer**

To be completed

**1.1.6 Call Forwarding**

Not supported.

**1.1.7 Message Waiting**

Configuration for Voicemail Notification:

Nokia devices can notify the user about new voice messages in HiPath Voicemail system (OpenScope Office or IVM but not EVM). There is always a new message in inbox, when number of new messages is changing.

Voicemail must be configured, to get the notification and callback to voicemail option:

1. Switch phone to Offline mode
2. *Menu-> Ctrl. Panel-> Net settings-> Advanced VoIP settings->VoIP services-> Select your Service-> Profile settings:*
3. Select your SIP profile in *Voicemailbox Settings ID*
4. Configure *Voicemailbox address "<Voicemail call number>@<OpenScope Office/HG1500 IP address>"*
5. switch phone back to profile *General*.

**1.1.8 Distinctive Ringing**

Not supported.

**1.1.9 Local phone features**

To be completed

**1.1.10 Known limitations and restrictions**

- Nokia phone configuration MUST be done via additional VoIP setting tool
- "Comfort Noise" feature should be disabled on Nokia E52 and E75 phone; otherwise the voice may appear shortly interrupted; disruptive clicking and noise will be heard on some ITSP calls (e.g. toplink)
- Voice in direction to Nokia Phone is distinctly delayed. Reducing Jitter buffer in Nokia phone (default = 200 ms) seems not to take effect.
- some call transfer scenarios may fail
- Nokia phones does not Re-Register, when LAN connectivity to SIP Registrar is lost for more than 2 minutes but WLAN connection is active. VoIP service is then disabled on phone. There is no problem, when WLAN connectivity is lost as in standard use case "leaving WLAN home zone"!
- Nokia devices cannot be used in an environment where the Signaling and Payload encryption feature is used
- Nokia devices have payload problems if Codec G723 is used, thus this codec has to be disabled in all devices (gateways, phones) in the network

MR's related to Nokia devices

		E52	E75	N97
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## SIP Endpoint configuration hints

H74052	call from HFA put on hold before release	X	X	X
H74070	call released when SIP is put on hold by HFA	X	X	X
H74074	TDM cannot be put on hold a second time	X	X	X
H74114	sporadically no transfer with Nokia SIP pos	X	X	X
No MR	is not doing semi attended transfer (no REFER, CANCEL after on hook)	-	X	-
no MR	call released when SIP is put on hold by TDM twice	X	-	x
no MR	no SIP Re-Register when IP connection lost for some minutes	X	-	x
no MR	E52 sometimes not responding after answering SIP call	X	-	-
H77595	No payload after blind transfer with SPE on		X	
H78641	1-way payload after blind transfer (G723)		X	
H87997	No payload after hold/unhold with Nokia			x
H92992	mobility entry transit: no payl. after second hold/retrieve			x

## 1.2 Nokia C7



For information see the NOKIA homepage:

<http://www.nokia.de/produkte/mobiltelefone/nokia-c7-00>

Produkt-Modell: C7-00 (Type RM-675)

Software Version: show firmware version on phone with “\*#0000#”

Release PR1.1

Software version/Date 013.016 2011-01-27

Custom version/Date 013.016.218.01 2011-02-16

To enable and configure the SIP client on the device you must download the SIP VoIP settings application and install it on the phone BEFORE you start.

[http://www.forum.nokia.com/Library/Tools\\_and\\_downloads/Other/SIP\\_VoIP\\_settings\\_applications.xhtml](http://www.forum.nokia.com/Library/Tools_and_downloads/Other/SIP_VoIP_settings_applications.xhtml)

SIP VoIP Settings: SIP\_VoIP\_3\_1\_Settings\_Symbian\_3\_v1\_0\_en.sis

### 1.2.1 Basic Configuration

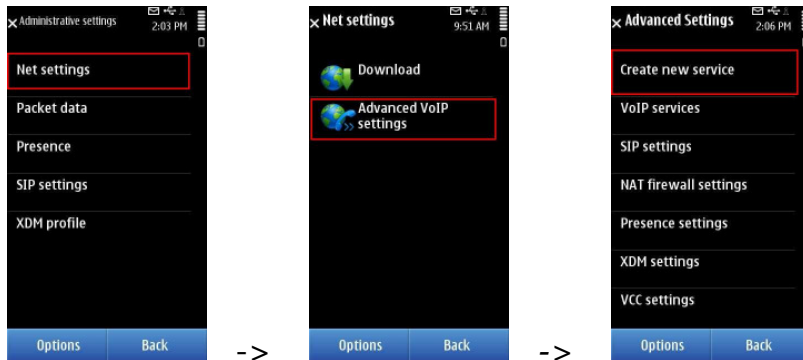
Download and install SIP VoIP 3.x Settings application on your mobile device using Nokia PC Suite.

	SIP telephony in the Nokia device needs careful configuration. If you started with the configuration and the device does not register successfully: please delete ALL services and profiles related to SIP telephony before you continue.
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Open the Menu, select **Settings**, select **Connectivity** and scroll down to **Admin. Settings**:



On the next screen select Net settings (NOT SIP settings!), select Advanced VoIP settings and last (but not least) Create new service:



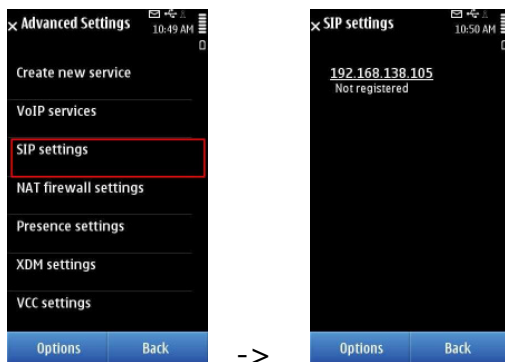
Select *Create new SIP profile* option:

Configure *Username* with the string containing <call number>@<system IP address>

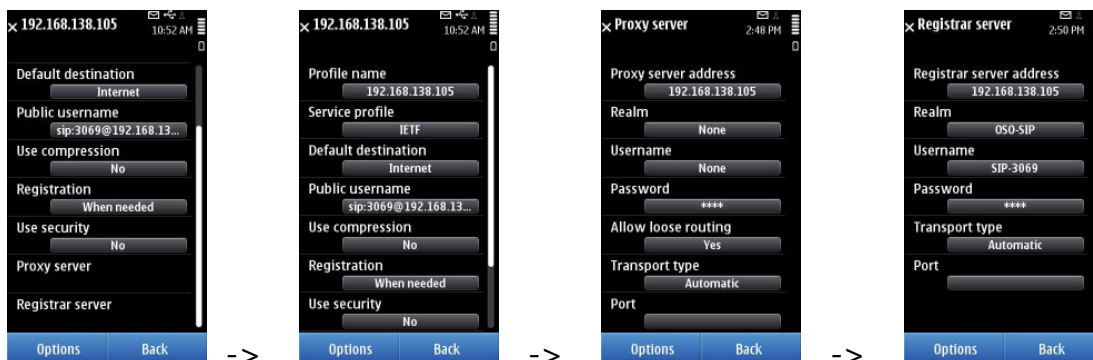
Configure *Password* as configured in OpenScape

Answer "would you like to create presence settings for the service" with "No"

At the end the device start to register, but as the configuration is not yet complete, press **exit** and continue with the configuration of the SIP settings:.



Select the configured service and scroll down to the Proxy and Registrar server entry:



In Proxy server the Proxy server address must be entered. In Registrar server you must enter Realm and Username as configured in OpenScapeOffice. Please note that Username is not the callnumber!

**Account settings:**

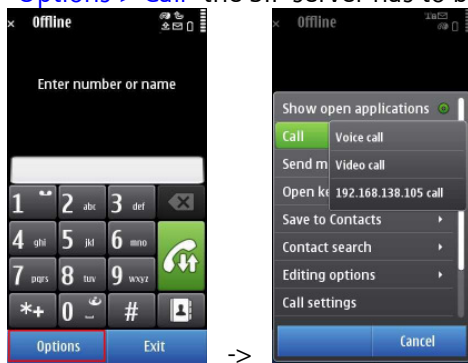
<b>Phone Value</b>	<b>configured in OpenScape Office:</b>
Proxy server Registrar server	IP-Address of OpenScape Office
	<b>configured in OpenScape Office: Telephones / Subscribers-&gt; IP Telephones -&gt; Edit</b>
Password:	Password
Registrar Server -> Username:	SIP User ID / Username
Registrar Server -> Realm:	Realm

**!** The Username is used at two different locations in the device configuration menu and has to be filled with two **different** strings!

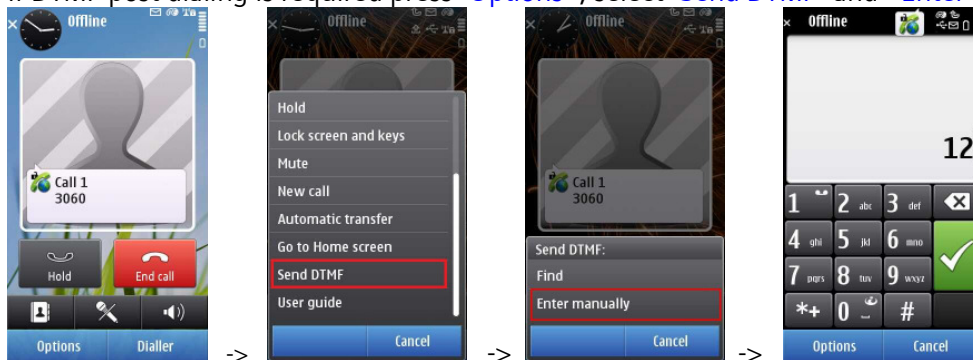
1. call number when entering Username during creation of the service
2. Client-SIP User ID when configuring the registrar server

**!** Nokia C7 does not allow editing of SIP profile settings as long as VoIP Service is active. If editing is necessary, then switch phone temporarily to Offline mode and do not allow WLAN access in Offline mode. Power off the phone and do not connect to WLAN after power on. Now configuration should be possible

To establish a Basic Call the destination number has to be entered in the dialler and via **"Options-> Call"** the SIP server has to be selected:

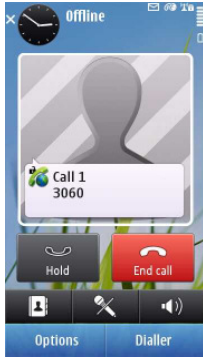


If DTMF post dialing is required press **"Options"**, select **"Send DTMF"** and **"Enter manually"**

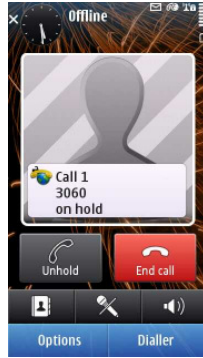


### 1.2.2 Hold/Retrieve/Alternate

Hold and retrieve are offered during call.



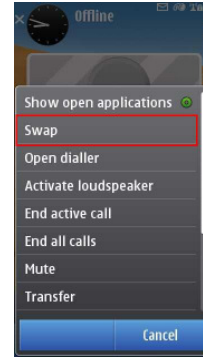
Hold



Retrieve



active and held call



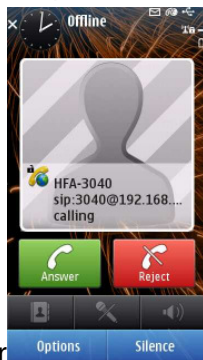
Swap/Alternate call

### 1.2.3 Transfer

Attended and automated transfer is supported.

### 1.2.4 CLIP/CLIR/CNIP - Name and Number presentation

The phone can display names (default) and/or the call number



**Privacy/Call number suppression** can be activated by the “[Call settings](#)” menu available via the “[Options](#)” softkey in the dialer. Select “[Call settings](#)” and set “[Sent my internet call id](#)” to “[No](#)”.

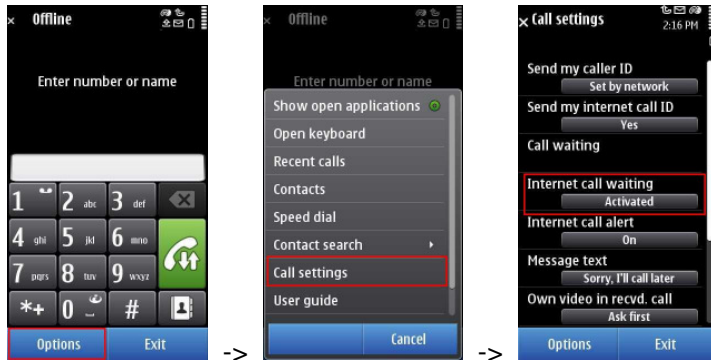


### 1.2.5 Call Waiting / Call offer

Call waiting is deactivated by default and must be activated in the phone. The “[Call settings](#)” menu is available via the “[Options](#)” softkey in the dialer. Select “[Call settings](#)” and activate “[Internet call waiting](#)”.



## SIP Endpoint configuration hints



### 1.2.6 Call Forwarding

Not supported.

### 1.2.7 Message Waiting

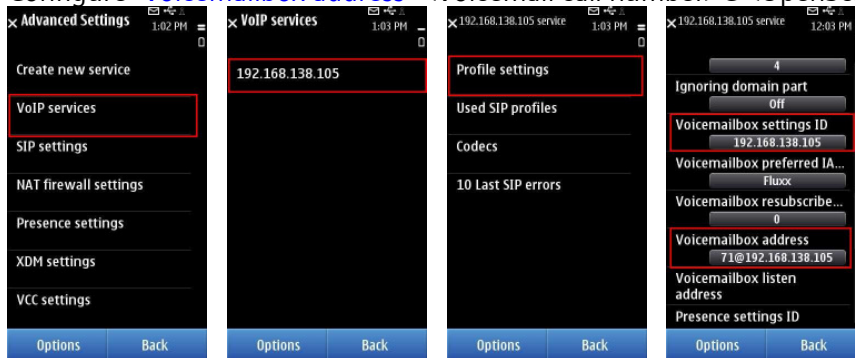
Configuration for Voicemail Notification:

Nokia devices can notify the user about new voice messages in HiPath Voicemail system (OpenScope Office or IVM but not EVM). There is always a new message in inbox, when number of new messages is changing.

Goto Advanced VoIP settings -> VoIP services and open your SIP profile. Under Profile settings the Voicemail server must be entered:

Select your SIP profile in "Voicemailbox settings ID"

Configure "Voicemailbox address" <Voicemail call number>@<OpenScope Office IP address>



### 1.2.8 Distinctive Ringing

Not supported.

### 1.2.9 Local phone features

**Conference** is not supported by the phone.

**Do Not Disturb** can be activated by the “[Call settings](#)” menu available via the “[Options](#)” softkey in the dialer. Select “[Call settings](#)” and set “[Internet call alert](#)” to “[Off](#)”.



### 1.2.10 Known limitations and restrictions

Please refer to the general statements in 1.1.10