

OrcaCom Nokia VoIP Configuration Guide



Nokia produce a number of dual-mode GSM/Wifi phones that are compatible with the OrcaCom service. By using one of these phones you can make calls over the Internet through OrcaCom when in range of a Wireless access point and hence make huge savings on your phone bill. Buying one of these phones could pay for itself in call savings very quickly! The dual-mode GSM/VoIP phone models known to work well with OrcaCom include:

Nokia E60
Nokia E61
Nokia E61i
Nokia E70
Nokia N80
Nokia N90
Nokia N95

The instructions below were put together from a Nokia E61 but all the above phones are very similar in terms of their setup and configuration so the instructions should be relevant for all models.

Upgrade the firmware release to the latest version:

Visit: <http://www.nokia.co.nz/nokia/0,,96565,00.html>

Select your phone model and download the Nokia Software Updater software to your PC.

The software should also download the drivers allowing you to connect to your phone via the USB cable.

Then connect up your Nokia phone using the supplied USB cable and select 'PC Suite' mode when prompted by the phone. Follow the prompts and download the latest release of firmware to your phone.

You can check the latest firmware release on your phone by dialing *#0000#

The current latest stable release for the Nokia E61 phone is:

3.0633.09.04
20-11-06
RM-89

Once you have installed the latest firmware release to your phone and you have setup all your personal information such as date, time, contacts etc. and can successfully make GSM calls via your SIM card then you are ready to configure your OrcaCom settings.

Defining an access point for your phone

Before you can setup your OrcaCom SIP Profile you need first to define and setup a Wifi access point. To connect to a Wifi access point:

1. Click on the main menu button
2. Select 'Connect'
3. Select 'Conn mgr.'
4. Select 'Available WLAN'
5. You should now see a list of available WLAN connections.
6. Select the access point you wish to use by scrolling to it and then hit the 'Options' button
7. On the 'Options' menu. Scroll down and select 'Define access point' and then confirm by pressing 'Yes'
8. If the Wifi Access point is publically accessible then you shouldn't need to do anything else and can exit. If your access point is protected with WEP, 802.1x or WPA/WPA2 then you will need to enter the relevant information for your access point in the settings. Available settings are:

Connection Name: This can be whatever name you wish to give the connection. e.g. Home, Office etc.

Data Bearer: This should be 'Wireless LAN'

WLAN netw. name: This should be left as the SSID name

Network Status: Can be Public or Hidden depending on your Access point

WLAN netw. mode: Can be Infrastructure or Ad-hoc. You probably want Infrastructure.

WLAN security mode: Either Open, WEP, 802.1x or WPA/WPA2. Select the one that suits your Access point.

WLAN security settings: If not Open then here you can define keys, Authentication type, key encryption/format types and more. Refer to your Access point instructions for details

Homepage: The default homepage when connecting. You can set this as <http://phone.orcacom.co.nz>

To test that your access point is working you can go to the Main Menu and select 'Web':

- Click on 'Options', Scroll down to 'Advanced options', click and then select 'Change connection'.
- It should search for access points and find your access point defined earlier. Select it.
- Now click 'Options' again and select 'Go to web address'
- Enter 'www.google.com'. You should now see the Google web page if all your settings are working correctly.

If you wish for the phone to always prompt you for an access point, then select 'Options' and scroll down to 'Settings' and then click 'Access point'. Here you can select 'Always Ask' or user defined if you wish to make your new access point the default when connecting.

Setting up your OrcaCom SIP Profile

Once you are happy that you can browse the Internet via your defined access point then we are ready to setup your

1. OrcaCom settings as follows:
2. Go into the main menu and select 'Settings'
3. Scroll down and select 'Connection'
4. Scroll down and select 'SIP Settings'
5. Select 'Options', 'Add new' and 'Use Default Profile'
6. Now define your SIP profile according to your OrcaCom settings.

As an example we assume the phone number is 028890000 and password is abc123:

Profile name: OrcaCom

Service profile: IETF

Default Access point: (Here select the access point name you defined earlier.)

Public user name: sip:028890000@sip.orcacom.co.nz (Replacing 028890000 with your own phone number)

Use Compression: No

Registration: Always on

Use Security: No

Proxy server menu

Proxy server address: sip.orcacom.co.nz

Realm: sip.orcacom.co.nz

Username: 028890000 (Replacing 028890000 with your own phone number)

Password: abc123 (Replacing abc123 with your own OrcaCom password)

Allow loose routing: Yes

Transport Type: UDP

Port: 5060

Registrar Server menu

Registrar serv. address: sip.orcacom.co.nz

Realm: sip.orcacom.co.nz

Username: 028890000 (Replacing 028890000 with your own phone number)

Password: abc123 (Replacing abc123 with your own OrcaCom password)

Transport Type: UDP

Port: 5060

Now click 'Back' twice and your profile should appear. If your settings were correct then after a few seconds you should see the status change to 'Registered'. To make the profile the default profile then click on 'Options' and select 'Default profile'

7. Next go back to the 'Connection' menu and select 'Internet tel. settings'. Click 'Options' and select 'New Profile' (unless you have already defined one)

Leave the name as 'Default' unless you wish to change it and ensure that your SIP profile created above (named 'OrcaCom' in the example) is listed. If not select and tick the box beside the profile.

8. Next go back to the 'Connection' menu and scroll down and select 'Wireless LAN'. Set Show availability to 'Yes' and Scan for networks every minute (instead of every 5 minutes). This will detect your Wifi and connect to OrcaCom more quickly when you come in range of your access point.

9. Now, go back twice to the 'Settings' menu and select 'Call'. In the call settings set the following:

Internet Call Waiting: Activated (unless you wish otherwise)

Default call type: Internet

10. Now select 'Exit' until you are back at the front screen.

Now try a test call by dialing *55. If all is well then you should connect to the OrcaCom Voicemail Portal.

11. Now login to OrcaCom control panel with your phone number and password at <https://phone.orcacom.co.nz>. Here you can select some settings that will enhance the use of your OrcaCom mobile service. For example:

- Under Inbound calls setting in the call forwarding section select 'forward my calls when I am unavailable to' and enter the GSM number in your Nokia phone here. So, now when you go out of range of the Wifi inbound calls will automatically be forwarded on to your same Nokia phone via the GSM network.
- Under 'Advanced' in the 'Remote Call Back' section, set the dual-mode phone callback number again to be your GSM number in the Nokia phone. This tells OrcaCom that the 2 numbers are linked and live on the same device. With this setting you can toggle an in-progress call between your OrcaCom number and GSM number by dialing '###' during a call. So if you walk out of range of Wifi then you divert the call off to your GSM number without having to disconnect the call. The other party is put on hold while the call connects to your GSM number. Likewise you can toggle back to OrcaCom by dialing '###' again when back in Wifi range. The callback number also defines which number to call when using the OrcaCom dual-mode phone callback service (see below).

NOTE: If you have another access point in another location that you would also like to use to connect to OrcaCom then repeat the above steps to define the access point and then create a new SIP Profile except when creating the new profile you can say 'Use an existing profile' instead of using the default one. Then you should not need to change any of the settings apart from the 'Profile Name' (e.g. OrcaCom Office) and access point selection. Finally, select your 'Internet tel. settings' profile and select 'SIP Profile' ticking the new profile you created. You should be able to define as many access points in as many locations as you like. The only trick is to define a separate SIP Profile for each access point and to always tick on the Profile in the Internet tel. settings.

You are now ready to start making calls from your Nokia phone via the Internet through OrcaCom and make huge savings on your calls when in range of a wireless network! You should also try dialing your OrcaCom number from a landline or another phone to ensure you can also receive inbound calls as well.

You can now roam between access points at home, the office or wherever you have access to Wifi and the phone should automatically connect to the Internet to make and receive calls with OrcaCom within a minute of coming in range of the Wifi. If you leave Wifi range then you may experience a short delay when dialing, but the phone should then switch back to 'Cellular' mode and place the call out the normal GSM number.