

*Opera*  
**Wireless Mobilty**

## How to set-up a Nokia E51 handset as a SIP WiFi extension off the Opera 4IP/20IP system

This will allow your mobile phone to act as an extension when you are in the office. Your phone will automatically attach to the WiFi access point, and log into the 4IP/20IP system, and any calls to your DDI number can ring at your mobile phone. Also any calls out of you mobile will try the Opera 4IP/20IP system first, and use that if it's available (i.e. you are within WiFi range in the office) and if not (i.e. you are out of range) will make a standard GSM call.

The best of both worlds in one handset, with automatic selection of the VoIP when available!

These are the steps for the Nokia E51 device, but it should work for any WiFi Nokia with the SIP client (N95, N81, N82, E61, E71 etc).

**Note: It is advisable to have your Wifi network security enabled. If you have any doubts or concerns about your Wifi network security, do not use this feature**

**STEP 1: Set up on the 4IP/20IP system** – You will need to install a licence in your PBX for WLAN SIP functionality. In order to obtain a trial licence, Click on this link to connect to our [licence server](http://213.79.38.16:81/) <http://213.79.38.16:81/> (enter username as **guest** and password as **1000**) and then fill in your details

MAC address of Opera system:

Company Name:

Company Address:

Contact Name:

Company Phone Number:

Email address to which the licence key should be sent:

Then change the pull down next to the item **"IP4 SIP Extensions"** from none to 1 and then click **"Send"**. You will be shown a confirm screen where you should click **"Yes"**. The licence server will then email you the licence key.

**Note:** *In order to check the MAC address of your system, you can login as an administrator to the system by pointing your browser to the IP address of the system. The default IP address of the system is market dependent but typical values are:*

*192.168.1.200 for Belgium*

*192.168.1.100 for Holland*

*192.168.1.250 for other markets*

*The administrator login and password are admin/1000.*

*You will find the MAC address under System Settings/System Properties.*

When you receive the WLAN SIP licence key from MDS Gateways, you must copy and paste this key into the Opera System by logging in as administrator. Go to the page System Settings/System Licences and paste the licence key into a free white cell, press Save and Restart then system.

When the system has restarted, login to the browser again as administrator and go to the page User Settings/ IP Phone Registration. Click on the link 'Licencing' on the lower left corner of this page.

In the third column 'Enable WLAN SIP', the number of WLAN SIP licences available is indicated at the top of the column. You can allocate a licence to a particular user by ticking the appropriate box and pressing the SAVE button.

The licence is now installed and allocated to a user. The next step is to programme the users IP phone registration details into the Mobile handset. In order to do this you must check these details on the page User settings/IP Phone Registration. Make a note of the IP registration name and IP registration PIN of the user who is to be configured as a WLAN SIP user.

You may now log out of the Opera System browser

## **STEP 2: Connect your mobile phone to the WiFi access point in your company as follows:**

First select MENU ->Connectivity -> WLAN wiz ->

You should see the "Your company" access point in the list (if you don't, then select "Options" and "Refresh"), highlight the "Your company" access point and select "Options" and "Define access point". You will be prompted to enter the WEP key. This is a very long list of numbers and letters that should be available from your network manager. You will only need to enter it once. Remember that you can enter numbers by holding down the number key for 2 Secs.

WEP key: your network manager should supply this key.

### **STEP 3: Add the SIP details for the Opera 4IP/20IP to the mobile phone.**

First select MENU -> TOOLS -> SETTINGS -> CONNECTION > SIP  
SETTINGS

- **Adding a new SIP profile called "Office"**
  - Press "Options" and Select "New SIP profile" and then "Use default profile".
  - Click on "Profile name" and name it as "Office" then click OK.
  - Set "Service Profile" to **IETF**
  - Click on "Default access point" and select "Our company"
  - Click on "public user name" and enter "your IP registration name.Mobile@192.168.1.250 (e.g. IP21.Mobile@192.168.1.250)
  - Set "Use compression" to **No**
  - Set "Registration" to **Always on**
  - Set "Use security" to **No**
  - Enter "Proxy server" by pressing "Options" -> "Change"
    - Set "Proxy server address" to the IP address of the 4IP/20IP (i.e. 192.168.1.250)
    - Set "Realm" to **None**
    - Set "User name" to your IP registration name (e.g. IP21)
    - Set "Password" to your IP registration PIN (e.g. 2580)
    - Set "Allow loose routing" to **Yes**
    - Set "Transport type" to **UDP**
    - Set "Port" to **5060**
    - Select "back"
  - Enter "Registrar server" by pressing "Options" -> "Change"
    - Set "Registrar server address" to the IP address of the 4IP/20IP (i.e. 192.168.1.250)
    - Set "Realm" to **None**

- Set "User name" to your IP registration name (e.g. IP21)
- Set "Password" to your IP registration PIN (e.g. 2580)
- Set "Transport type" to **UDP**
- Set "Port" to **5060**
- Select "back"
- Select "back" to return to the "SIP" menu
- Select "back" to return to the "Connection" menu and move down to "Internet tel."

- **Adding a new Internet tel. profile called "Office"**

- Press "Options" -> "New profile"
- Click on "Name" and rename it as "Office", then click "OK".
- Click on "SIP profile" and select "Office", then click "OK".
- Select "back", "back", "back" and "Exit"

- **Setting SIP as your preferred connection type**

First select MENU -> Connectivity -> Internet tel. ->

- Highlight "Our company" and press "Options" then select "Settings"
- Select "Default call type" and set it to "Internet call",
- Press "Ok", "Back" then "Exit"

**Finished!** You can now test your mobile phone is an extension off the 4IP/20IP system by dialling another user or by dialling your voicemail \*99.

**Note: Manual selection of the active device from multiple devices registered to a single extension user** Change your IP registration name on your desk phone at work (Press Menus key under display and hold down for 10 seconds, select Registration Info, IP Registration Name), so that it has a "dot text name" after the normal IP registration name. So if your IP registration name is "IP11" you could change it to "IP11.Work" and press Set.

A home worker with a remote extension should then do the same for the system phone at Home.

The user can then manually activate either the Work or the Home or the Mobile extension from their IP Executive or IP Professional system phone by selecting "Activate" in the Menus list and selecting the appropriate device.