

# UC 3

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## Service Manual

## UC3 WLAN Linux



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**METTLER TOLEDO**

A graphic element consisting of several parallel, diagonal green lines of varying lengths, creating a sense of motion or a stylized 'M' shape.

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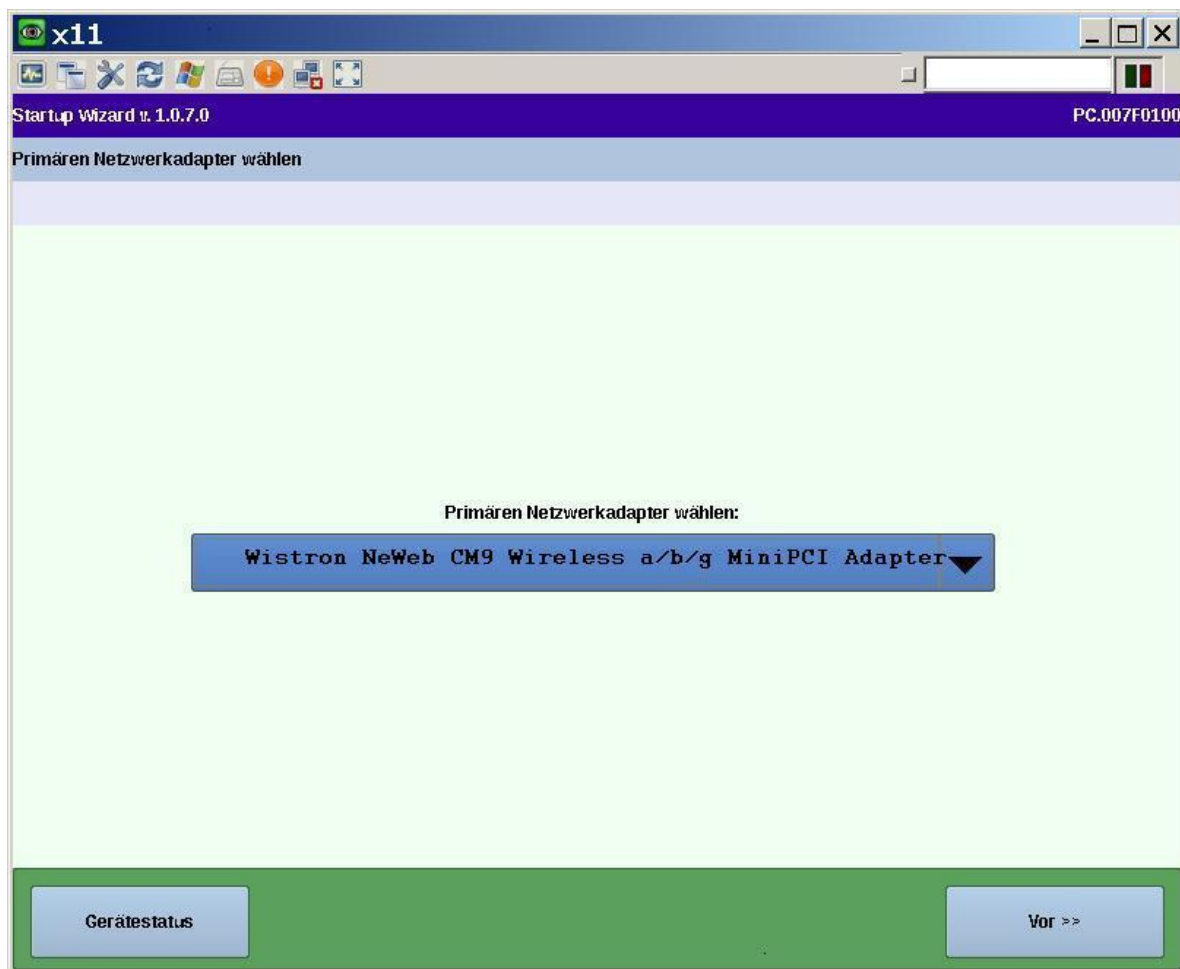
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## 1. General

The WLAN option allows the scale to be operated just as if it is connected to your network via a cable. The only difference is the setting of the network parameters. Please have the configuration settings of your WLAN infrastructure at hand.

### 1.1. Modifying WLAN option settings

WLAN option settings take place at the operating system level. After startup, the scale runs either the Startup Wizard (in the case of starting up the scale for the first time) or the scale application:



In the case of an entirely WLAN connection, set the primary network adapter to "Wistron"

The key combination <SHIFT><ALT><CURSOR-RIGHT> switches to the second desktop in which the settings can be made:

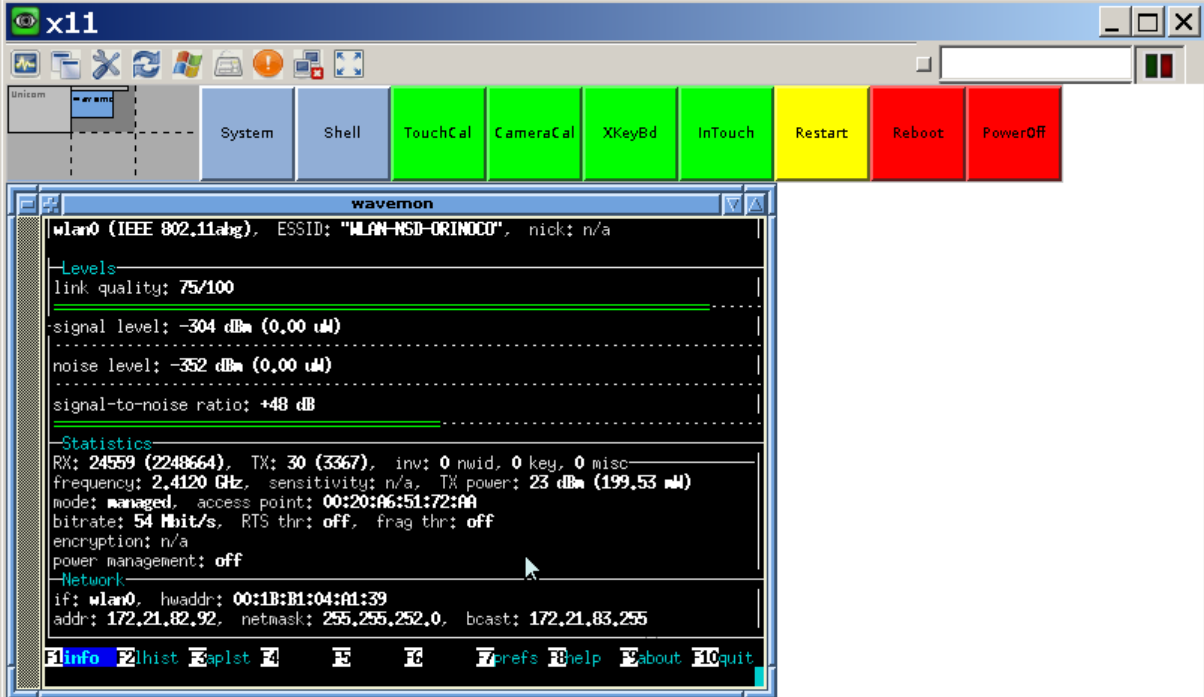


The WLAN module settings are found on the System Menu:

- WLAN signal strength (wavemon tool)
- WLAN settings (yast2 lan)



**WLAN signal strength** indicates the signal quality. Note this is the signal quality of an associated access point. The scale should therefore be configured for **WLAN settings** in advance.

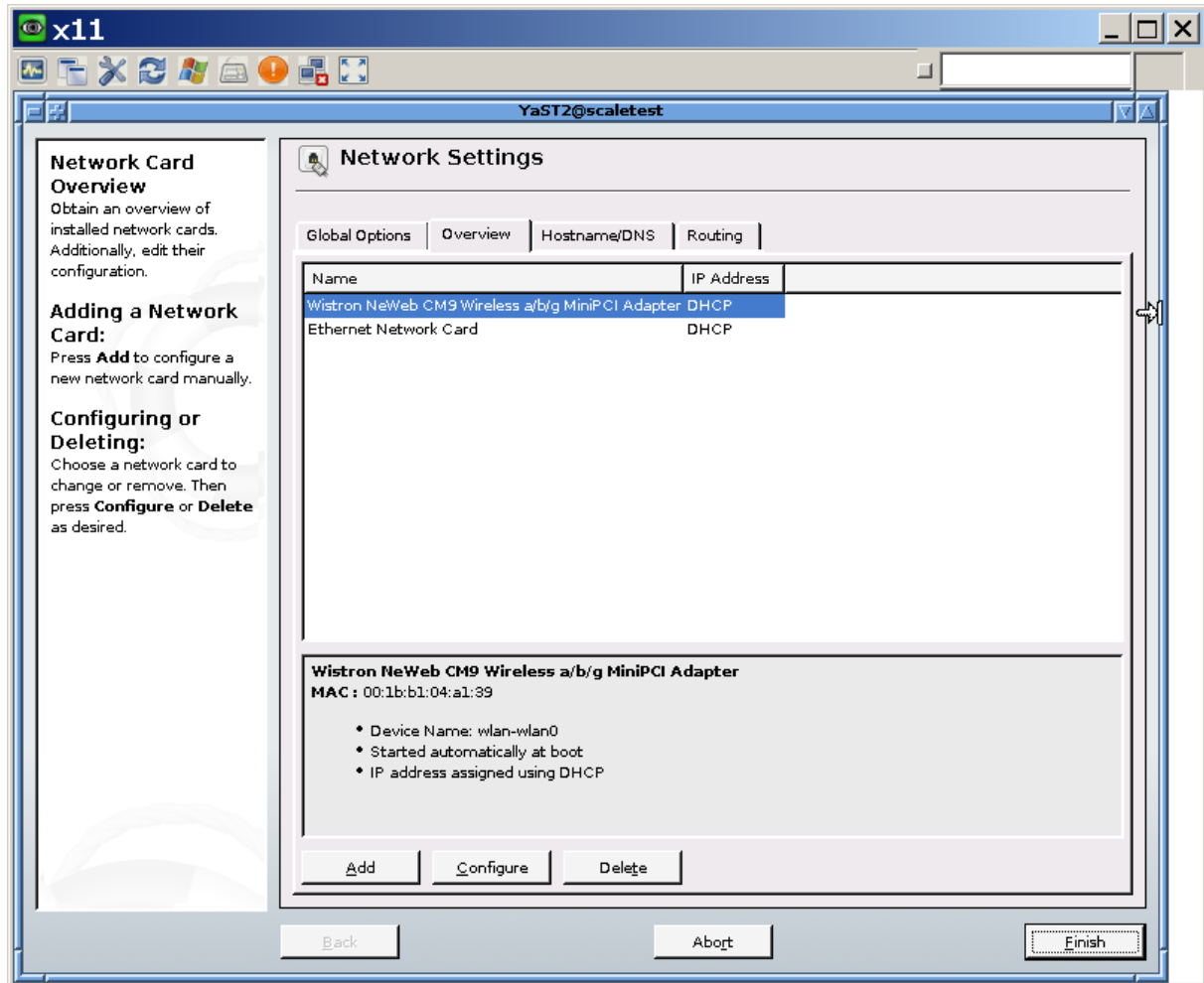


The screenshot shows a Linux terminal window titled "wavemon" displaying the output of the "wavemon" command for the wlan0 interface. The terminal output is as follows:

```
wlan0 (IEEE 802.11abg), ESSID: "WLAN-NSD-ORINOCO", nick: n/a
-Levels-
link quality: 75/100
-----
signal level: -304 dBm (0.00 uW)
-----
noise level: -352 dBm (0.00 uW)
-----
signal-to-noise ratio: +48 dB
-----
-Statistics-
RX: 24559 (2248664), TX: 30 (3367), inv: 0 nwid, 0 key, 0 misc
frequency: 2.4120 GHz, sensitivity: n/a, TX power: 23 dBm (199.53 mW)
mode: managed, access point: 00:20:A6:51:72:AA
bitrate: 54 Mbit/s, RTS thr: off, frag thr: off
encryption: n/a
power management: off
-Network-
if: wlan0, hwaddr: 00:1B:B1:04:A1:39
addr: 172.21.82.92, netmask: 255.255.252.0, broadcast: 172.21.83.255
F1 info F2 hist F3 replst F4 F5 F6 F7 prefs F8 help F9 about F10 quit
```

The terminal window is overlaid on a desktop environment with a taskbar containing buttons for System, Shell, TouchCal, CameraCal, XKeyBd, InTouch, Restart, Reboot, and PowerOff. Below the terminal window, a portion of a white device is visible.

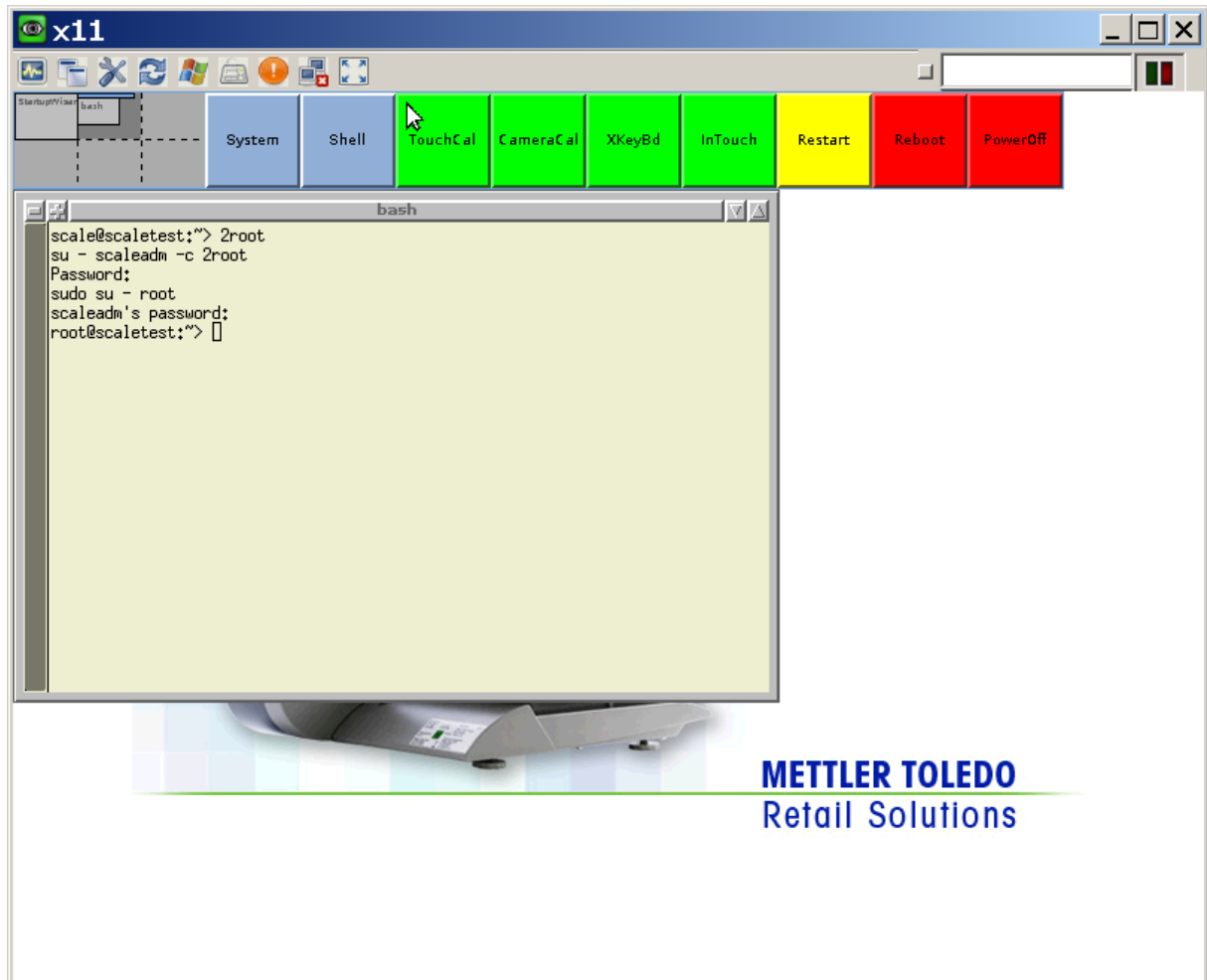
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Retail Solutions

**WLAN settings:**

Alternatively - the console for purists:

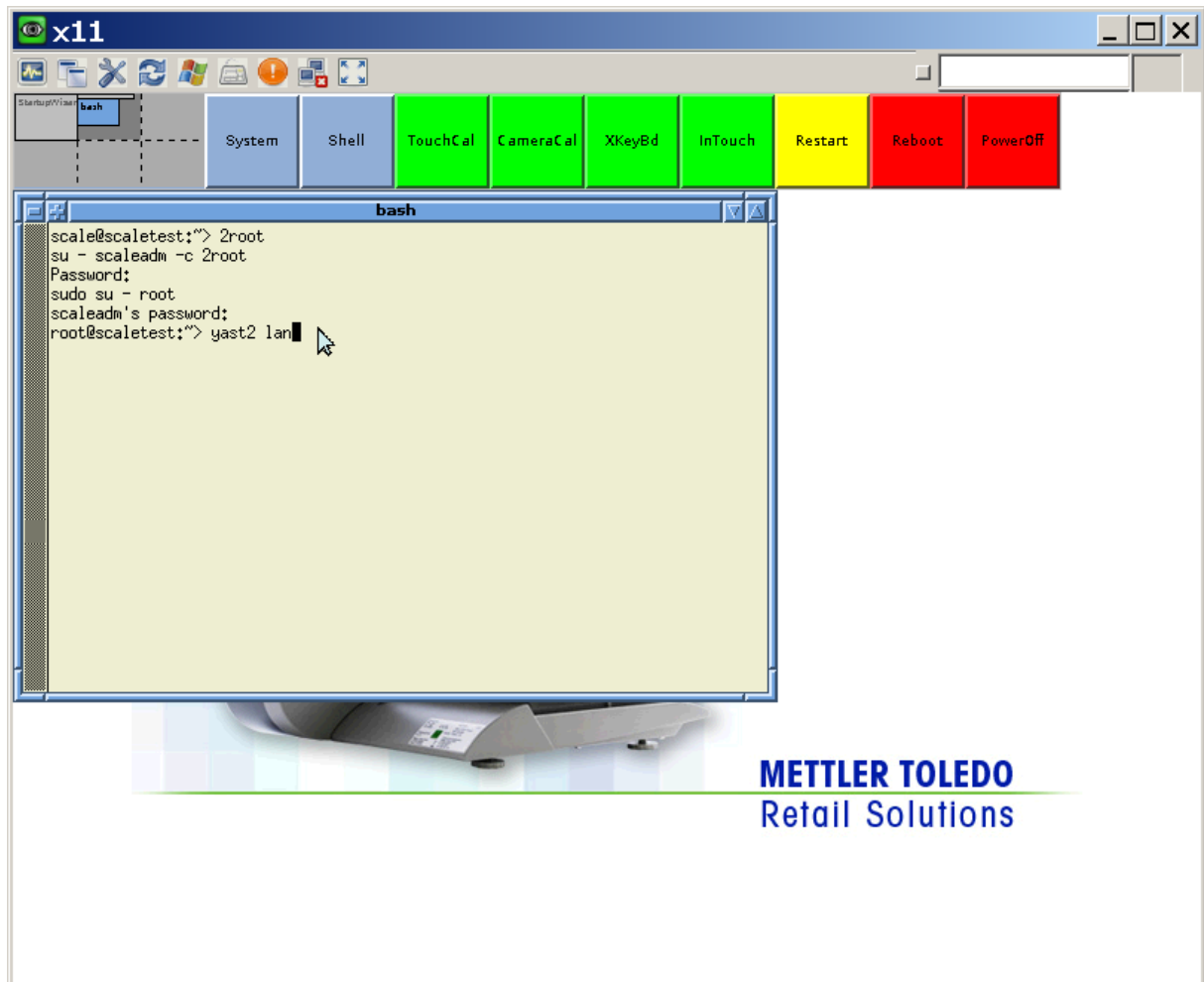
Opening a shell and running the script '2root' causes the required authorisation requests to appear (the script '2root' has a double password request, because the user changes from 'scale' via 'scaleadm' to 'root.')

Please request the preset password from a service technician.



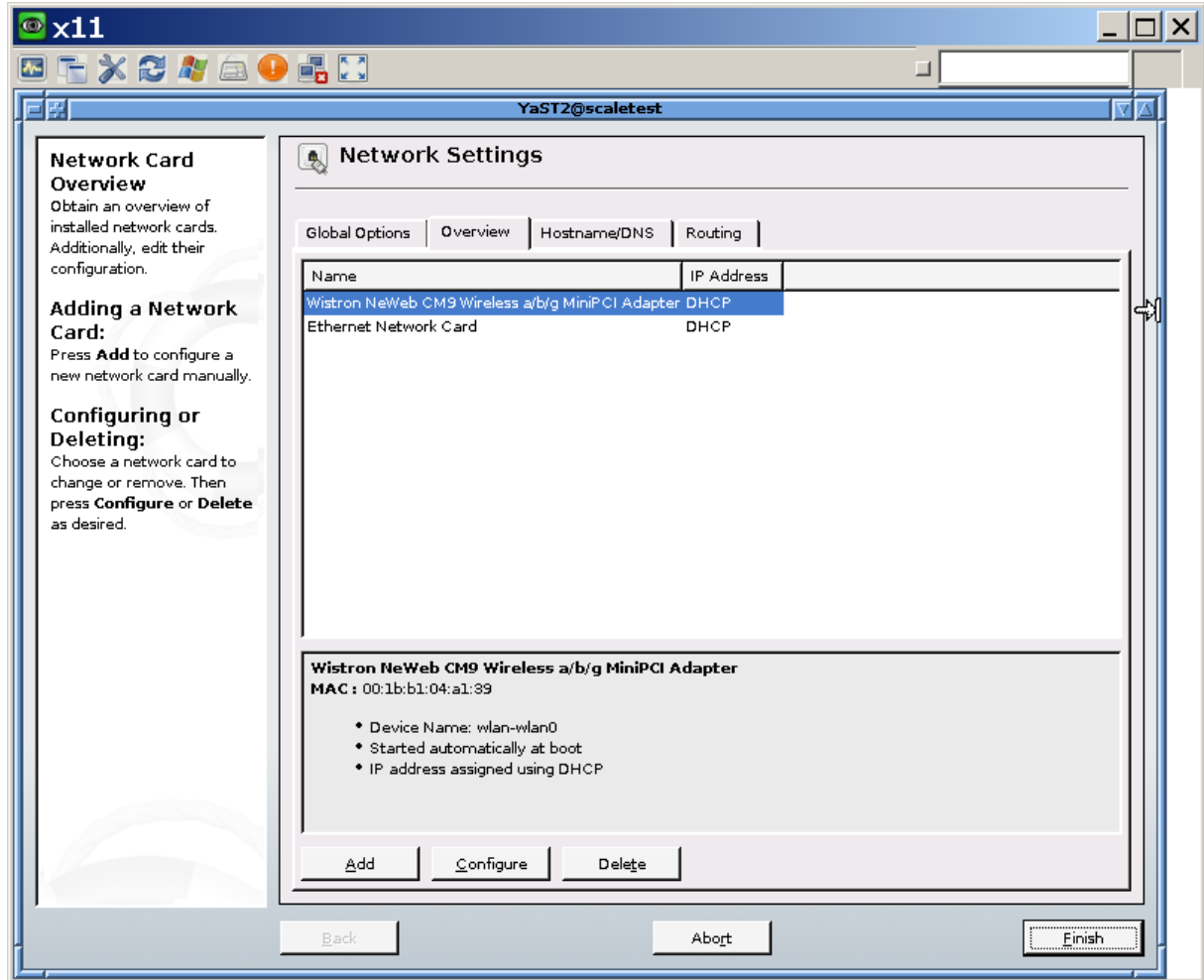


The relevant LAN/WLAN settings are made by running the OpenSuSE setup tool (yast2):



Note:

yast2 is only supplied with the required modules and not with the full extent to which some users are accustomed



You can adjust the size of the dialog box by dragging its upper left corner with the mouse. The dialog box can thus be conveniently centred on the menu bar.

The WLAN adapter appears as 'Wistron NeWeb CM9 Wireless a/b/g MiniPCI' and its typical WLAN settings are configured using the menu option 'Configure.' After entering the suitable settings for your infrastructure ('Next'->,'Next'->,'Finish'), your settings are activated and yast2 closes automatically.

It is best practice to now reboot the network and perform an initial test.

```
/etc/init/network restart
ping known_IP_address
```

If the test fails, check the settings once more (ensure the WLAN adapter uses the 'ath5k' kernel module).

Some DHCP servers only assign a lease after a device has been restarted, if settings have been changed, therefore restarting via 'Reboot' is also an option...