Complete User Manual

Vodafone Station

vodafone

Contents

1. Introduction

Vodafone Station is a WiFi modem that gives you the flexibility to connect everyone in your home or office to the one device.

Vodafone Station is fibre capable, includes 2 USB ports for file and print sharing and is DLNA compatible - so you can make the most of your connection.

It comes with 1 included phone line filter and has an LCD screen so with our easy set-up wizard you'll be online in minutes.

1.1 Vodafone Station features

WiFi

Manage your WiFi connection directly from the modem.

DLNA compatible

Enable DLNA so you can share media and content between the Vodafone Station and other DLNA compatible devices, such as Sony's Playstation3, Smart TVs and smart phones.

Share a hard drive

Connect a hard drive to the Vodafone Station via USB and you can share all your saved documents, photos, music and videos to any device connected to your network in your home or office.

Share a printer

Connect a printer to the Vodafone Station via USB and you can print to it from any device connected to your network in your home or office.

Back up Vodem

Stay online using a Vodem® as a back up internet connection if there's an outage or you're waiting to be connected. Additional data charges will apply.

Vodafone Media Manager

Your Vodafone Station comes with a user licence for Vodafone Media Manager by Twonky® – this media management software for Windows PCs allows you to share all your music, photos and videos with UPnP or DLNA-compatible digital media players throughout your home.
To set up Media Manager go to **vodafone.co.nz/station**

by TWONKY

1.2 Your Vodafone Station

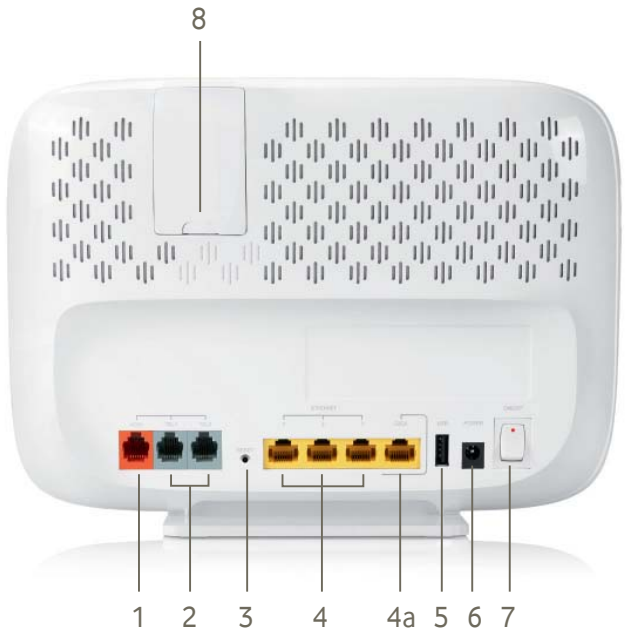
Indicator
Light on
Vodafone Station is powered on.

Intermittent/flashing
Indicates you have an incoming call, missed call, firmware upgrade or any other notification that requires your attention.

Arrow keys
To move around the menus or to go back a screen, and press OK to select the highlighted item.

LCD Screen
Colour display with quick access to all key features

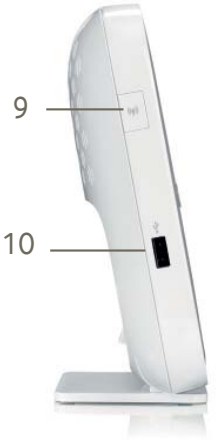
The screen will light up every time you turn on your modem



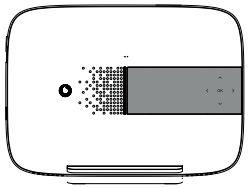
1 ADSL port
2 Phone ports
3 Reset button
4 Ethernet ports 10/100
4a GIGA Ethernet port
5 USB port
6 Power supply port
7 On/Off switch
8 USB port that supports 3G Vodems®

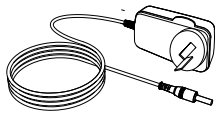
9 WiFi On/Off button
Switches your WiFi option on or off. You can also turn the WiFi on and off directly from display. For more details about the WiFi button, see 2.3 Connecting a computer to your Vodafone Station using a wireless connection (WiFi)

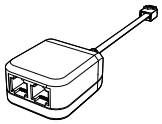
10 Second USB Port
Connects a USB storage device, such as a USB disk, a printer etc.

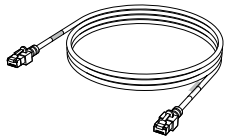


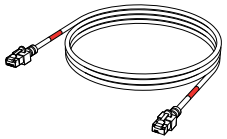
1.3 What's in the box

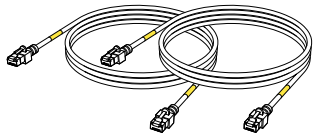

Vodafone Station


Power supply


DSL line filter


Cable (gray tags) for connecting to a phone


Cable (red tags) for connecting to a phone jack


2 cables (yellow tags) for connecting to a computer or a fibre access point

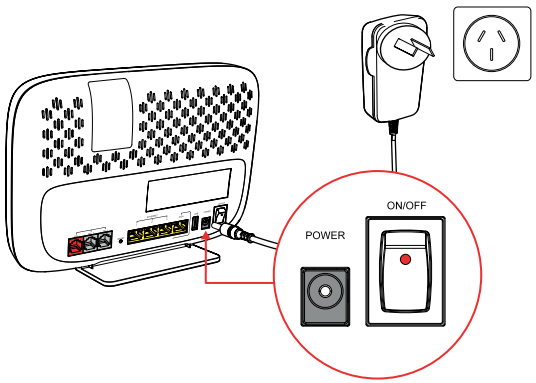
2. Installation guide

2.1 Connecting your Vodafone Station to the fixed network

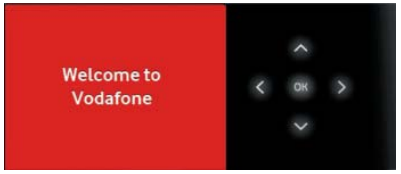
Follow these instructions to connect your Vodafone Station in just a few easy steps. Before you start, please make sure that you've received confirmation by email or TXT message that your Vodafone broadband connection is activated.

1 Connect the power supply
Connect the supplied power supply into the power port of your Vodafone Station and a mains wall outlet or a power strip as shown below.

2 Turn the device on
Turn the Vodafone Station on by pressing the On/Off switch on the back of the Vodafone Station. Once connected you will see the LCD screen on the Vodafone Station light up.



3 Follow the instructions on screen
Press OK on the LCD screen to start the Set-up Wizard. The simple instructions on screen will guide you through the installation of the Vodafone Station. Use the arrow keys to move around the menus or to go back a screen, and press OK to select the highlighted item.



2.2. Connecting a computer to your Vodafone Station using the PC/LAN cable

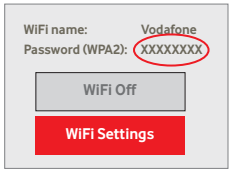
As per the Set-up Wizard step on your LCD screen, please connect your computer to the Vodafone Station using the white cable with yellow tags provided.

2.3 Connecting a computer to your Vodafone Station using a wireless connection (WiFi)

To connect your laptop, smart phone, tablet or other WiFi enabled device to your network, select the WiFi icon on the LCD screen on the front of the Vodafone Station.

You will be able to see the WiFi name (SSID) and the WiFi password for your Vodafone Station's wireless network.

On your laptop or smart phone, find the WiFi name on the WiFi network selector. Then enter the password when prompted, and you should be connected to the network.

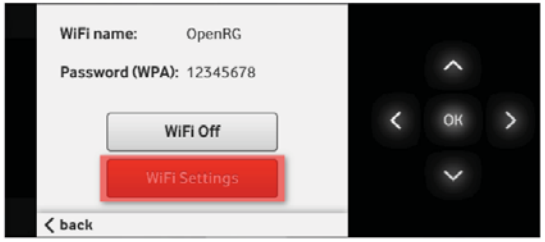


Enable the WPS (WiFi Protected Setup) function

Alternatively, if you want to connect a device via WiFi but don't want to have to enter the WiFi password you can connect using WPS.

1. Navigate to the WiFi menu by pressing the arrow keys on the LCD screen of the Vodafone Station.

2. Select OK.
3. Select WiFi Settings.



4. Under WiFi Settings select WPS Pairing.

5. The Vodafone Station's WPS will now be active for 2 minutes.

6. Push the WPS button on the device you wish to connect.

Example of an Android mobile phone

2.4 Factory resetting the Vodafone Station

To factory reset your Vodafone Station to the default factory settings, please use the following:

1. Log into the Vodafone station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced** on the top menu

3. Click on **Additional Settings** in the sub-menu

4. To factory reset the Vodafone Station, click on the **Reset** button to **perform a factory reset**

5. The Vodafone Station will now lose connectivity and the device will restart

6. Once the Vodafone Station has powered back on and gained a DSL connection, you will be asked if you want to keep your personal configuration or cancel. You need to select one of these options to complete the reset.

7. The Vodafone Station will then run the automatic process to gain authentication details and connect to the internet.

8. Internet connectivity can be checked via the icons on the front of the router on the LCD screen. Please refer to LCD icons. Note: Your Vodafone Station will re-start while Vodafone remotely configures it.

2.5 Using Vodafone mobile broadband with your Vodafone Station

A Vodafone Vodem®can be used with your Vodafone Station as a backup internet connection if there is an outage on your fixed broadband or while you're waiting for your fixed line broadband connection to get set up.

List of Supported Vodems:
The following Vodafone Vodems are compatible with the Vodafone Station:

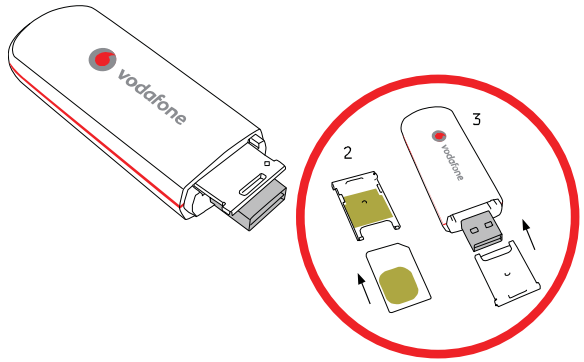
- **K3772**
- **K3806**
- **K4201**

Inserting the Vodafone mobile broadband vodem stick:

1. Remove the SIM card holder from the Vodafone mobile broadband vodem.

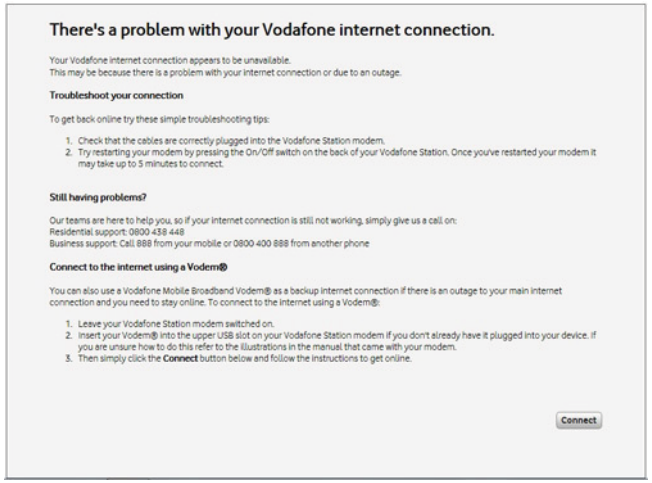
2. Insert the SIM card into the card holder.

3. Re-insert the SIM card holder into the Vodafone mobile broadband vodem.



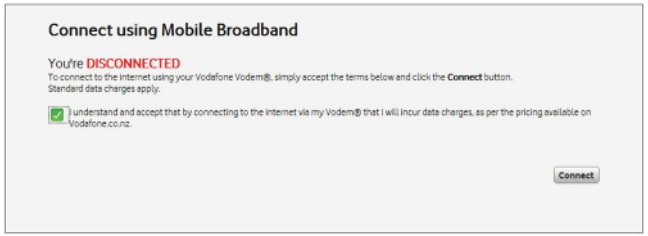
4. Connect your vodem to the Vodafone Station

5. Now whenever your broadband or fibre connection disconnects and you try to access a webpage you will receive the below message asking if you would like to connect using your vodem.

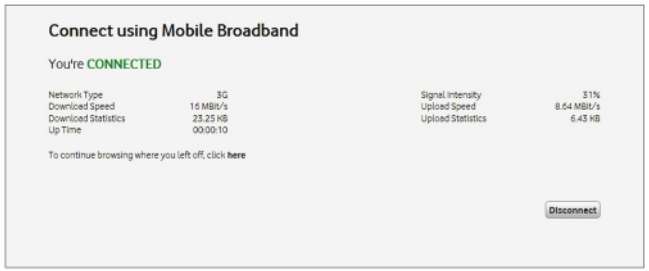


6. Click connect to begin
Please make sure that you understand that the vodem account holder will incur data charges for data used by the vodem before proceeding.

Tick the box to indicate that you understand that using the Vodem will incur data charges and click connect.



After a few moments the Vodem will connect to the Vodafone mobile network and you will receive the following screen. Once this screen appears you will be able to browse the internet as you normally would.



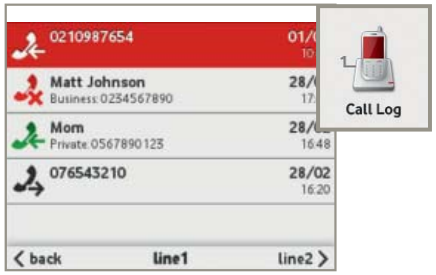
Please remember that the ability to use a back up Vodem connection is subject to 3G coverage in your area. Vodem is not included and needs to be purchased seperately. Connecting to the internet with a vodem will incur data charges as per the pricing on vodafone.co.nz. Voice services are not supported.

3. LCD screen

The LCD screen on the Vodafone Station is like the Start button on your computer. It provides you with quick and easy access to the device. To navigate through the LCD menu, use the arrow keys and OK button on the right hand side of the screen.

3.1 Menu screens

Call Log menu*



The Call Log screen allows you to view the call history for the phones connected to your Vodafone Station.

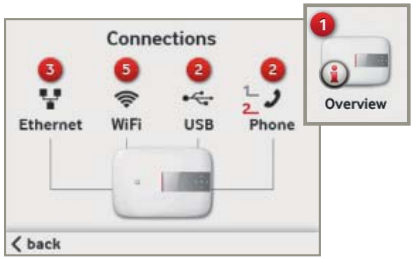
From here you'll be able to see incoming (green) calls, missed (red) calls and calls you've made (black). Then by highlighting a call and pressing the OK button you can call that number.

If you have a second line, you will be able to access the call log for your second line by using the right hand arrow to move between your call logs.

You can also add your favourite numbers to an address book on the device through the web portal at **http://vodafone.station** OR **192.168.1.1**

Overview menu

The Overview screen allows you to quickly see what devices you have connected to your Vodafone Station. The number in the red circle in the icon indicates how many devices are connected.

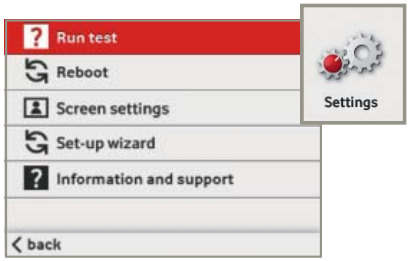


WiFi menu

The WiFi screen allows you to manage your WiFi network. From here you'll be able to quickly view your WiFi username and password, turn your WiFi connection on and off and access your WiFi Settings.

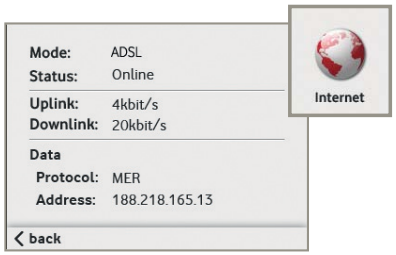
Settings menu

The Settings screen allows you to run a diagnostic test, reboot or find out where to go for support if you experience any problems.



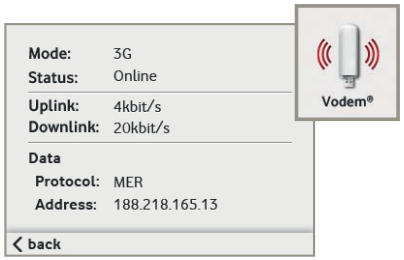
Internet menu

The normal Internet icon shows that your Internet connection is enabled and is working properly. Pressing OK when the icon is highlighted lets you see the state of the connection.



Vodem® menu

The Vodem® icon shows you the state of your Vodafone 3G connection if you are connecting via a Vodem® USB stick. Pressing OK when the icon is highlighted lets you see the state of the connection.



3.2 LCD icons

Call Log

The phone is connected and working properly. There are no active calls.

You have a number of missed calls (shown in the red circle).

When a phone line is busy it will be shown in red on the Call Log icon.

An alert symbol signals that there may be an issue with your voice service.

Call log functionality is only available on some Vodafone plans

WiFi

WiFi is working properly and is password-protected.

This shows that WiFi is turned on and working but is not password protected.

The number in the red circle shows how many WiFi devices are connected.

WiFi is turned off. Select the icon and press OK to have the option to turn it on again.

An alert symbol shows that the WiFi is not working properly

Internet

The Vodafone Station is connected to the internet.

This shows that the modem cannot detect a connection.

An alert symbol means that the internet cable has been connected, however the Vodafone Station has not yet established a connection to the internet

Vodem®

This shows that a vodem is plugged into the Vodafone Station.

No vodem is plugged in or it is plugged in incorrectly.

A vodem is plugged into the Vodafone Station and is connected to the internet. The signal bars indicate the signal strength and will include the type of network connection (GPRS, 3G, HSPD).

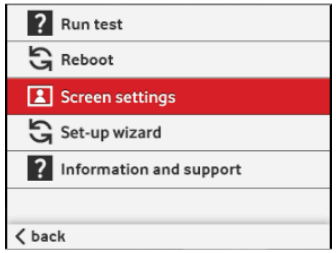
An alert symbol shows there is an issue with the vodem connection and it is not working properly.

3.3 Adjust LCD screen intensity

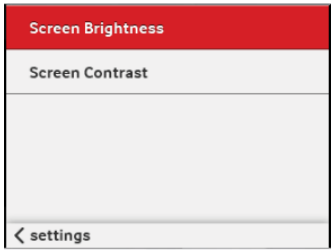
To adjust the brightness on the screen of your Vodafone Station;

1. On the LCD, select **Settings**

2. Select **Screen settings**



3. Select either **Brightness** or **Contrast** depending on what you want to adjust



4. Use the arrows to adjust the slider and select **Apply Changes** when done

4. Instructions

4.1 Web portal

You can manage every aspect of your Vodafone Station from simple to advanced settings by accessing the web portal.

- See the general state of your connections.
- View your Call History to enter numbers in the phonebook.
- Customise your WiFi username and password.
- Set up hard drive and printer sharing with one simple click.
- And, if you're an advanced user, you can edit the advanced settings for the Vodafone Station.

To access the web portal, open the internet browser on your computer and type in the URL bar: **http://vodafone.station**

If you are using a custom DNS server, you can access the Vodafone Station by typing in **192.168.1.1**

4.2 Home storage function (hard drives)

Set up a Network hard drive

The Vodafone station supports many types of USB hard drives. Setting up a network hard drive will provide faster access to your content than accessing your content through the web portal.

Set up instructions

1. Plug your external hard drive into the side or back USB port of your Vodafone Station. A message should display on the LCD screen advising that a USB device has been detected

2. Login to the Vodafone Station by browsing to **http://vodafone.station** OR **192.168.1.1**

3. Click on **Sharing**

4. Under Hard Drives, you should see your hard drive listed

5. Slide the **Share All switch** to **On**

6. **Click** on the arrow next to your hard drive, this will tell you the network location of your drive.

7. If you have multiple partitions on your hard drive, these will be listed here.

8. Simply **click on the drive** and you can upload, download, delete and open files

9. You can also map this network drive so it appears on your computers storage system. Instructions for this vary depending on the type and version of your operating system.

Mapping a network drive in Windows 8

1. From the **Start screen** click **windows explorer**.

2. From the menu on the left hand side of the window click **Computer**.

3. Select the **Computer** tab at the top of your screen.

4. Select **Map network drive**

5. In the Folder field, enter the network location of your drive (identified in step 6 of the setup instructions above). This should look something like \\ vodafone.station\a

6. Click **Finish**

Mapping a network drive in Windows 7

1. Open **My Computer**

2. Select **Tools** from the menu bar

3. Select **Map a network drive**

4. In the **Folder** field, enter the network location of

your drive (identifi ed in step 6 of the setup instructions). This should look something like \\vodafone.station\a

5. Click **Finish**

Mapping a network drive in Windows Vista

1. Open **My Computer**

2. Select **Map Network Drive** from the toolbar and the Map Network Drive window will open

3. **Choose an available letter** from the dropdown list located next to the Drive: option. If any drives are currently mapped they will have a folder name displayed next to the letter.

4. Enter the **network name** of of your drive (identified in step 6 of the setup instructions) This should look something like \\vodafone.station\a

5. Click the "**reconnect at login**" **check box** if this network drive should be mapped permenantly, otherwise this will only be temporary until you log out of your computer

6. Click **finish**

Mapping a network drive in Windows XP

1. Open **My Computer**

2. From the tools menu, **click map network drive**, this will open a map network drive window

3. In the map network drive window, choose an available letter from the dropdown list located next to the 'Drive' option. If any drives are currently mapped they will have a folder name displayed next to the letter.

4. Enter the **network name of of your drive** (identified in step 6 of the setup instructions) This should look something like **\\vodafone.station\a**

5. Click the **reconnect at login** check box if this network drive should be mapped permenantly, otherwise this will only be temporary until you log out of your computer

6. Click **finish**

Mapping a network drive on Mac OS X

The drive will be automatically detected in your Mac device. However, if this doesn't work you can:

1. From the **Mac OS X Finder**, hit **Command+K** to bring up the '**Connect to Server**' window

2. Enter the path to the network drive you want to map, **\\vodafone.station\a** and click '**Connect**'

3. Enter your **login/password** and click "**OK**" to mount the network drive

4. The drive will now appear **on your desktop** and in the **Finder** window sidebar

Set up Disk Sharing Privileges

You can set up a username and password for USB hard drives connected to your Vodafone Station.

Note: A password restriction only applies while the device is attached to the Vodafone Station. If someone unplugs the hard drive and plugs it directly into a computer, this authentication will no longer work.

You can configure different levels of access to the hard drives. For example you might give yourself read+write privelages, but other users read only.

1. Login to the modem by browsing to **http://vodafone.station**

2. Click on **Advanced**

3. Click on **Advanced Sharing**

4. In the **Disk Sharing Privileges** section, **click on your hard drive**

5. If you are using Samba/FTP, slide the switch beside **Require Authentication** to **On**.

To add a user

1. Click on **+ Add user**

2. Enter a **username and password**

3. Set the permissions to either **read+write** or **read only**

4. Click **apply**

4.3 Sharing a USB printer

By connecting a USB printer to the Vodafone Station you can easily print from any device on your network.

To enable the USB printer function

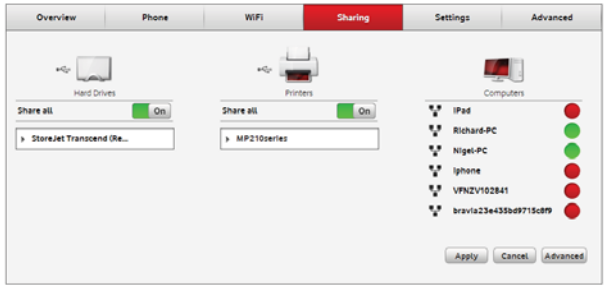
1. Connect the **USB cable of the printer** to the **USB port on your Vodafone Station**

2. Log into the Vodafone station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

3. Click on **Sharing** on the top menu

4. **Turn on** the **Share all** function under Printers on the page

5. Click on **Apply**



Windows 7 / Windows Vista

1. From the start menu open **Devices and Printers**

2. Click **Add a printer**

3. Select **Add a network**, wireless or Bluetooth printer

4. Select **The printer that I want isn't listed** . Under **Select a shared printer by name** enter the network address of your printer. This can be found in the sharing section of the Vodafone Station web portal, it should look something like **http://vodafone.station:631/printers/yourpintermodel**

5. Select **Next**

6. Select your printer make and model number from the list and click **Next**

7. Click "**Finish**"

Windows 8

1. From the Start screen click **windows explorer**.

2. From the menu on the left hand side of the window click **Computer**.

3. Select the **Computer tab** at the top of your screen.

4. Select **Open control Panel**

5. Select **Not finding what you are looking for**. At this point you will need to make sure the **View by** option in the top right hand corner of the window is set to **Category**

6. Click **Hardware and Sound**

7. Under **Devices and Printers** click **Advanced printer setup**

8. Select **The printer that I want isn't listed**. Under **Select a shared printer by name** enter the **network address** of your printer. This can be found in the sharing section of the Vodafone Station Web Portal, it should look something like **http://vodafone.station:631/printers/yourpintermodel**

9. Select **Next**

10. Selet your printer **make** and **model number** from the list and click **Next**

11. Click **Finish**

Windows XP

1. Choose **Start > Printers and Faxes**. Click the **Add Printer** icon on the left side of the displayed page.

2. Click **Next** in the **Welcome to the Add Printer Wizard** page.

3. Select a **network printer**, or a **printer attached to another computer** and then click **Next**.

4. Select **Connect to a printer on the Internet or on a home or office network.**

5. Enter **http://vodafone.station:631/printers/yourpintermodel/myprinter** in the URL text box. Then click **Next**.

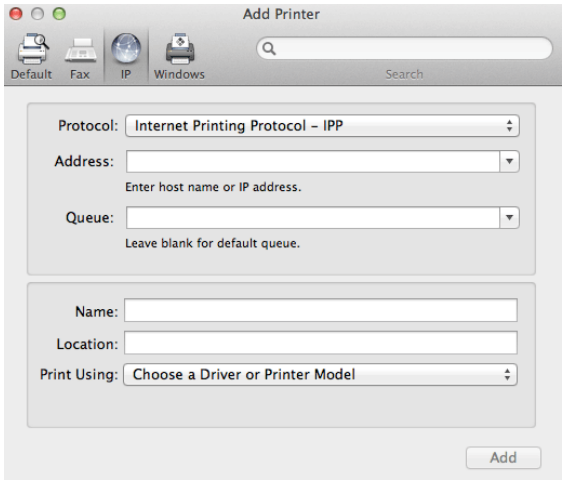
Mac

1. Connect the **Printer** to the **Vodafone Station** using a **USB cable**

2. Open up **System Preferences** and select **Print and Scan**

3. Select the **+ Button** to add a new printer

4. In the box that opens select **IP**



Protocol: Internet Printing Protocol – IPP

1. Enter the Address: **192.168.1.1:631**

2. Queue: **printers/printer** (or whatever you named the printer where it says printer)

3. Name and Location: **Type whatever you like**

4. Print Using: It will change to a generic driver, if you know the model you can manually select it from a list.

5. Click **Add**

4.4 Setting up user permissions

Setting up user permissions allow you to restrict access to either the entire web portal or sections of it. For example, you could restrict access to everything but phone and sharing sections.

To change the password on your Vodafone Station

1. Log into the Vodafone station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced** on the top menu

3. Click on **User Permissions**

4. **Enter a new password** in the **Password** field

5. Click **Apply**

6. The Vodafone Station will now only be able to accessed with the security password

To enable password protection for specific Vodafone Station menu pages

1. **Turn the option Enable Protection on** by clicking on the button next to it

2. Click and turn on all pages that you would like protected with a password

3. Click **Apply**

4. The selected pages will now only be able to be accessed with the security password

4.5 Device connection history

The connected device log allows you to view devices that are currently and have previously been connected to your network.

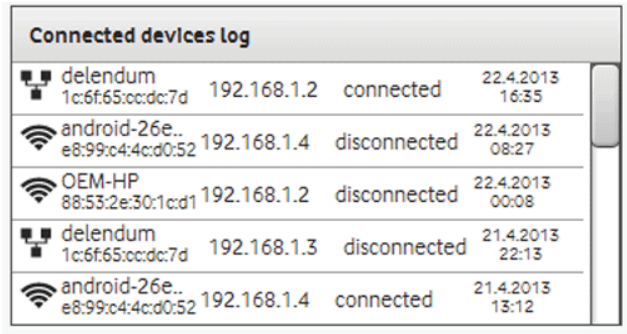
Along with the name of the connected device you will be able to tell you how the device is connected (Ethernet or WIFI), its MAC address and the IP address that it connected with.

To access the connected device log

1. Login to the modem by browsing to **http://vodafone.station** OR **192.168.1.1**

2. Click on **Settings**

3. The connected device log will be located at the bottom right hand corner of the window.



4.6 MAC address filtering

Every computer, phone or tablet in the world will have a MAC address. This function allows you to block or allow a particular device to connect to the internet based on the device's MAC address.

Filter a Mac address for ethernet connections

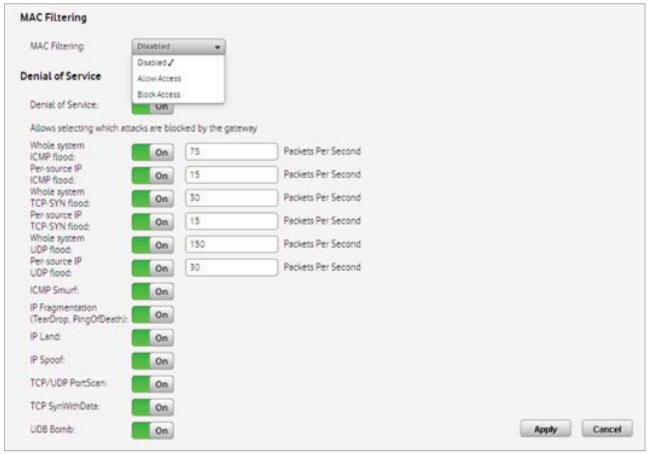
1. Log into the Vodafone Station by entering the following URL into your web browser: **http://vodafone.station** OR **192.168.1.1**

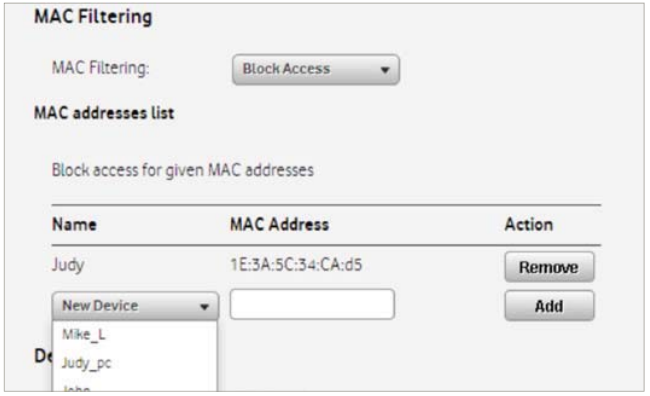
2. Click on **Advanced** on the top menu

3. Scroll down the page to **Mac Filtering**

4. Adding a device to the Allow Access list will only allow devices in the allow list to access the Vodafone Station

5. Adding a device to the Block Access list will deny access to that particular device to access the Vodafone Station





6. **Select a device** from the **drop down menu to add to the list** or select **new device** and add the MAC address for the device. Click on the **Add** button and click on **Apply**

To filter a Mac address for wireless connections

1. Log into the Vodafone Station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced** on the top menu and then select **Advanced WiFi**

3. Scroll down the page to **Mac filtering**

4. Adding a device to the Allow Access list will only allow devices in the allow list to access the Vodafone Station

5. Adding a device to the Block Access list will deny access to that particular device to access the Vodafone Station

6. **Select a device** from the **drop down menu to add to the list** or **select new device** and add the MAC address for the device. Click on the **Add** button and click on **Apply**

4.7 URL filtering

URL filtering allows you to restrict access to web pages. If you set the mode to blocked, web pages whose URL includes a keyword that you select will be blocked. If you set it to allow, only websites with the specific keywords you have provided will be accessible.

For example, you may want to block access to torrenting websites if you suspect people in your house may be downloading illegally.

You could add keywords such as **torrent** and **pirate** to your URL filter. Remember that this will only restrict keywords in the URL of the webpage, not the content of the webpage itself.

1. Login to the Vodafone Station by entering the following URL in to your internet browser **http://vodafone.station** OR **192.168.1.1**

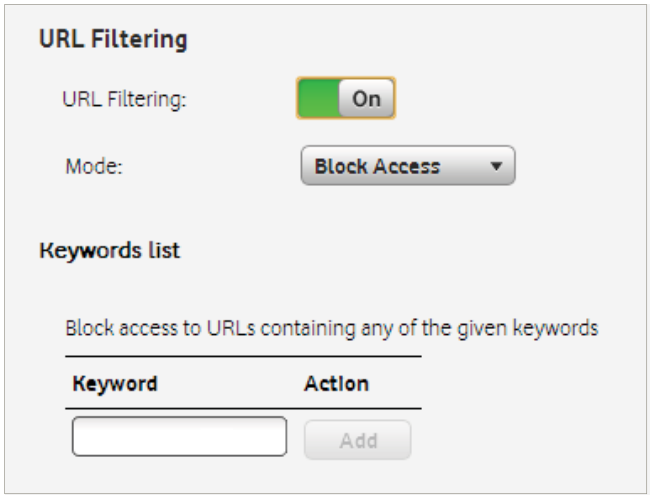
2. Click on **Advanced**

3. Click on **Firewall**

4. **Scroll down** to the section **URL Filtering** and **set the slider to on**

5. Select if you wish to **block or allow** access

6. In the keywords list, enter the **keywords you wish to allow or deny** and click **add**



7. Click **Apply** at the bottom of the **Firewall page**

8. You may need to reboot your Vodafone Station for these changes to take effect

9. When removing a URL filter, you may also need to clear your internet browser's cache

4.8 VPN

Use this function for Virtual Private Networks

To set up a VPN connection

1. Log into the Vodafone Station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced** on the top menu

3. Click on **Additional Settings** on the sub menu

4. Select the type of VPN setup that you are trying to set up from the dropdown menu

5. Enter the required details and click **apply**

4.9 Access Control

Access control is the opposite of port forwarding (see 4.13) as it allows you to block access to a particular port or service such as games or internet.

To set up Access Control:

1. Log into the Vodafone Station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced** on the top menu

3. **Move the On/Off switch** to the **On** position

4. **Select** a service or game that you wish to **block**. **Click** on the **Add button** and **click on Apply** at the bottom right of the screen.

4.10 Parental Control

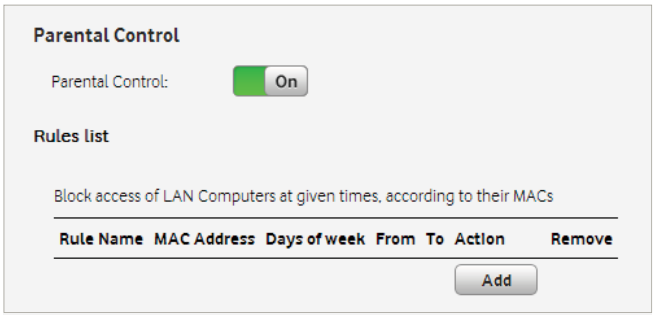
Parental Controls allow you to restrict a specific computer or device's internet access at certain times of the day. For example you may want to block a games console, such as a Playstation or Xbox from accessing the internet during exams.

To set up a Parental Control:

1. Log into the Vodafone Station by entering the following URL into your internet browser: **http://vodafone.station** OR **192.168.1.1**

2. Click on **Advanced**

3. Click on **Firewall**



4. Scroll down to the section **Parental Contro**l and set the slider to **On**

5. Click **Add**

6. Give the rule a name

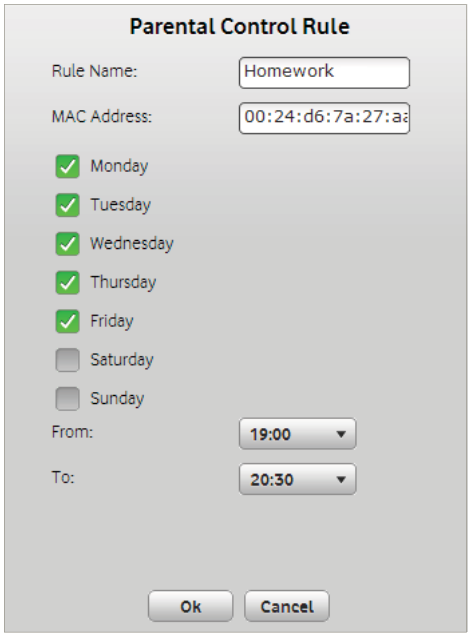
7. Enter the **MAC address** of the computer or device you want to restrict access too.You can view the MAC addresses of attached devices in the **settings** menu of the Vodafone Station, under the **Connected Device History**

8. Select the days and times you wish to restrict access

9. Click **Ok**

10. Click **Apply** at the bottom of the Firewall page

11. You may need to reboot your Vodafone Station for these changes to take effect



4.11 Vodafone Media Manager

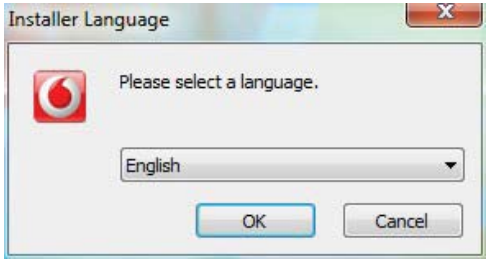
Vodafone Media Manager is software designed to share your music, movies and pictures over your home network.

To set up Vodafone Media Manager

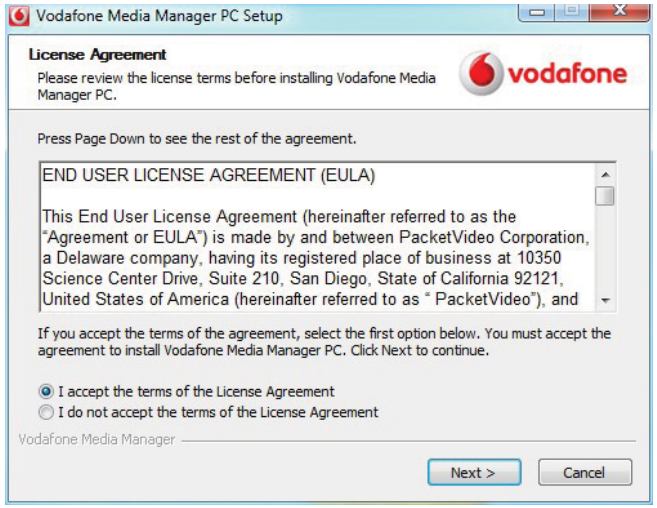
1. Go to **http://downloads.vodafone.co.nz/VodafoneMediaManagerSetup.exe** and download the **Media Manager** software

2. Once you have downloaded Media Manager, **double click** on the file to begin.

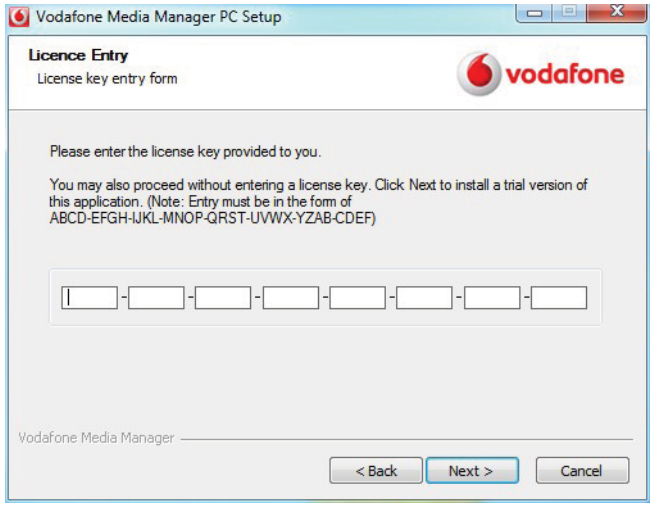
3. Select your **preferred language** and click **OK**



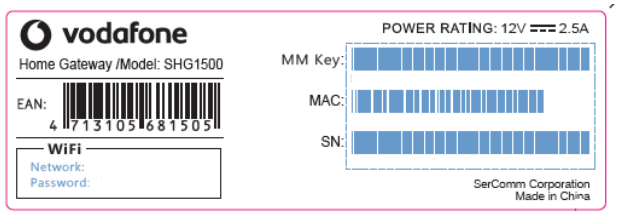
3. Continue through the Licence Agreement by selecting the appropriate choice and then select **Next.**



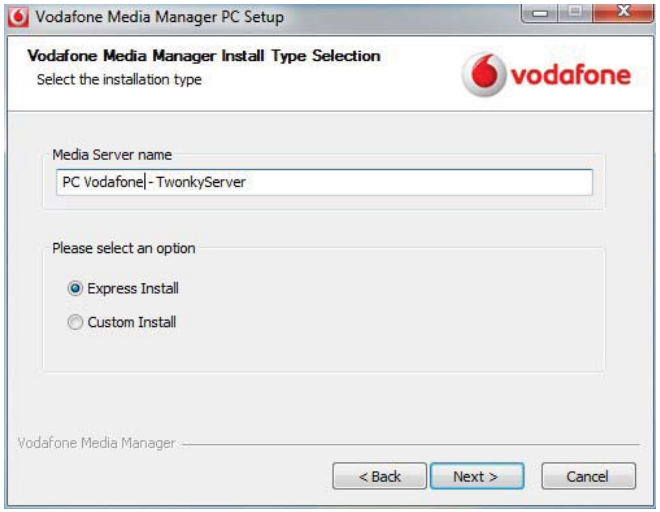
4. Enter in the **MM key** (Media Manager Key), this can be found on the back of your **Vodafone Station** and then click **Next.**



The sticker on the backof Vodafone Station looks like this:



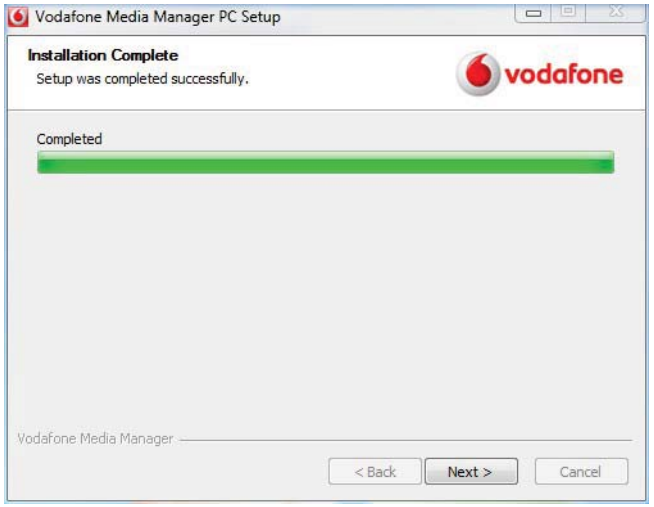
5. Enter in a **server name**. You can either use the default name or any name of your choice. We recommend using the default **Express Install option** unless you have specific installation requirements in which case select **Custom Install**.



6. Click **next.**

7. Vodafone Media Manager is now ready to install. Click **Install** to proceed.

8. Once complete, click **next** to finish.



Congratulations you have successfully installed Media Manager.

To open Media Manager please double click the Media Manager icon on your desktop.

Once opened you will be able to view media on your computer and other devices connected to your network by selecting the device from the drop down box.

For more information on Media Manager please refer to the full user guide.

This can be downloaded from:
vodafone.co.nz/station/pdfs/media-manager-user-guide.pdf

The Vodafone Media Manager user guide includes easy instructions of how to share files, a printer or your music, photos & video using the Vodafone Media Manager (by Twonky).

Vodafone Media Manager is DLNA compatible, so you can make the most of your Vodafone connection.

4.12 DLNA

How to enable or disable DLNA.

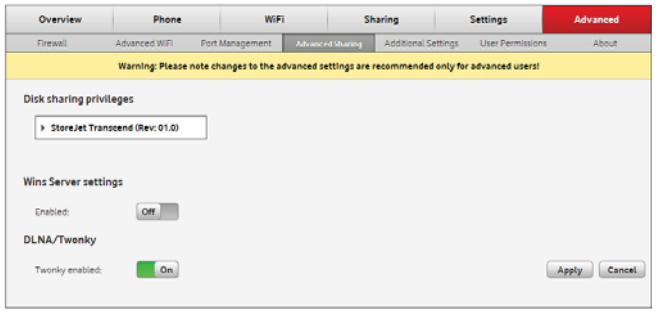
Enabling DLNA means that you can plug an external hard drive into your Vodafone Station and share any media content on your drive will be indexed and available on your home network and any other DLNA compatible devices, such as Sony's Playstation 3.

1. Log into the Vodafone Station by entering the following URL into your internet browser: **http://vodafone.station**

2. Click on **Advanced** on the top menu

3. Click on **Advanced Sharing** on the sub menu

4. **Turn DLNA on** by selecting **On** with the button below it



4.13 Firewall

1. Log into the Vodafone Station by entering the following URL in to your internet browser: **http://vodafone.station**

2. Click on **Advanced** on the top menu

3. Select the level of security on the firewall you prefer. By default this is set to **medium**.

4. To block certain services, select **Custom** from the drop down menu and **Add** details to blocked

5. Scroll to the bottom of the page and click **Apply**

The preset firewall profiles work like this:

Disabled All ingoing and outgoing traffic shall be allowed to pass through the modem including Game and Application Sharing.

Low All outgoing connections are allowed. All incoming connections are blocked, except for ICMP (Internet Control Management Protocol) and inbound connections assigned to a local host via Game and Application Sharing

Standard All outgoing connections are allowed. All incoming connections are blocked, except for inbound connections assigned to a local host via Game and Application Sharing

Medium All outgoing connections are blocked except MS Windows protocols such as NetBIOS, RPC and SMB. All incoming connections are blocked. Game and Application Sharing is allowed.

High All outgoing connections are blocked, except for traffic from well-known protocols such as DNS, HTTP, HTTPS, FTP, TELNET, IMAP and POP. All incoming connections are blocked. Game and Application Sharing are allowed.

Block All All traffic coming from and going to the Internet is blocked. Game and Application Sharing is not allowed

4.14 Port forwarding

Some internet applications may require a special configuration on the ports for network access. Port forwarding allows you to define the ports to be enabled to allow/block those applications.

To set up port forwarding on the Vodafone Station:

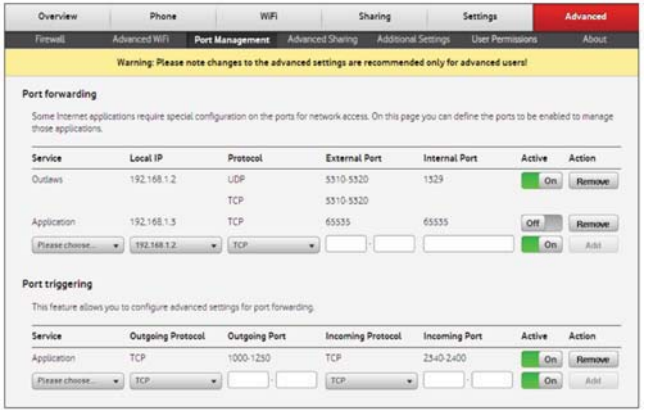
1. Log into the Vodafone station by entering the following URL into your internet browser: **http://vodafone.station**

2. Click on **Advanced** on the top menu

3. Click on **Port Management**

4. Choose an option from the drop-down menu under Service. Local IP, Protocol, External Port, Internal Port settings can be entered from the recommended service/application.

5. Click on **Add**



5. Glossary

ADSL
Asymmetric Digital Subscriber Line
ADSL is a technology for transmitting digital information at a high bandwidth on existing phone lines to homes and businesses. Unlike regular dial-up phone service, ADSL provides continuously-available, "always on" connection. ADSL is asymmetric in that it uses most of the channel to transmit downstream to the user and only a small part to receive information from the user. ADSL simultaneously accommodates analog (voice) information on the same line. ADSL is generally offered at downstream data rates from 512 kbit/s to about 6 Mbit/s.

ADSL2+
Asymmetric Digital Subscriber Line 2+
ADSL2 plus doubles the bandwidth used for downstream data transmission, effectively doubling the maximum downstream data rates, and achieving rates of 20 Mbit/s on phone lines as long at 5,000 feet. ADSL2+ solutions will most commonly be multimode, interoperating with ADSL and ADSL2, as well as with ADSL2+ chipsets.

Chat
The content of audio/video streaming

Client
On a local area network or the Internet, a computer that accesses shared network resources provided by another computer (called a server).

DHCP
Dynamic Host Confi guration Protocol
DHCP is a client-server networking protocol. Most organizations use DHCP. A DHCP server provides configuration parameters specific to the DHCP client host requesting, generally, information required by the host to participate on the Internet network. DHCP also provides a mechanism for allocation of IP addresses to hosts.

DLNA
Digital Living Network Alliance defines a standard for moving movies, photos, music and other media from device to device. DLNA servers can store media in one location without setup or confi guration, can stream the media to DLNA compliant devices like Playstation 3 and Xbox 360. For more information see **www.dlna.org**

DNS
Domain Name System
A hierarchical way of tracking domain names and their addresses, devised in the mid-1980s. The DNS database does not rely on one file or even one server, but rather is distributed over several key computers across the Internet to prevent catastrophic failure if one or a few computers go down. DNS is a TCP/IP service that belongs to the Application layer of the OSI model.

Ethernet
Architecture developed by Xerox Corporation in cooperation with DEC and Intel in 1976. Ethernet uses a bus or star topology and supports data transfer rates of 10 Mbit/s. The Ethernet specifi cation served as the basis for the IEEE 802.3 standard, which specifies the physical and lower software layers. Ethernet uses the CSMA/CD access method to handle simultaneous demands. It is one of the most widely implemented LAN standards.

IEEE
Institute of Electrical and Electronics Engineers (IEEE) is a standards organization for computer and electronic devices. Its senior members are IEEE fellows.

Internet
Largest global internet work, connecting tens of thousands of networks worldwide and having a 'culture' that focuses on research and standardization based on real-life use. Many leading-edge network technologies come from the Internet community. The most important uses for the internet are:

Email
The world wide web (www)
Transfer of data
Discussion forums
Transfer of data peer-to-peer

Internet browser
A computer program that allows users to view information from the Internet. To use an internet browser, you type in the URL of a website, and the internet browser then connects your computer to the website, and shows the information there on your screen.

IP
Internet Protocol
The set of standards responsible for ensuring that data packets transmitted over the Internet are routed to their intended destinations.

IP address
An IP address is the logical address of a network adapter. The IP address uniquely identifies computers on a network. An IP address can be private, for use on a LAN, or public for use on the internet.

Kbit/s
Kilobit per second
A unit used to express the speed of a network.

LAN
Local Area Network
A computer network covering a small local area, like a home, office, or small group of buildings such as a home, office, or college. Current LANs are most likely to be based on switched Ethernet or Wi-Fi technology running at 10, 100 or 1,000 Mbit/s (1,000 Mbit/s is also known as 1 Gbit/s).

MAC address
It is a hardware address that uniquely identifies each node of a network.

Mbit/s
Megabit per second
A unit used to express the speed of a network.

NAPT
Network Address Port Translation
NAPT enables a local area network (LAN) to use one set of IP addresses for internal traffic and a second set of addresses for external traffic.

PPPoE
Point-to-Point Protocol over Ethernet
PPPoE is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with DSL services. It offers standard PPP features such as authentication, encryption, and compression.

Protocol
On the Internet, "protocol" usually refers to a set of rules that define an exact format for communication between systems.

Server
A computer or program that responds to commands from a client. For example, a file server may contain an archive of data or program files. When a client submits a request for a file, the server transfers a copy of the file to the client.

SSID
A SSID (Service Set Identifier) is the name of a particular local wireless network to which a user wants to connect. Broadbcasting SSID's displays a list of wirelss networks in range allowing the user to select a preferred one.

Subnet mask
The technique used by the IP protocol to determine which network segment packets are destined for. The subnet mask is a binary pattern that is stored in the client machine, server or router, and is matched with the IP address.

TCP
Transmission Control Protocol
The reliable transport protocol within the TCP/IP protocol suite. TCP ensures that all data arrive accurately and 100% intact at the other end. TCP's unreliable counterpart is UDP, which is used for streaming media, VoIP and video conferencing.

TCP/IP
A suite of communications protocols used to connect hosts on the Internet. TCP/IP uses several protocols, the two main ones being TCP and IP.

TKIP
Temporal Key Integrity Protocol
Using TKIP, automatically changes the keys at a preset time interval, making it much more difficult for hackers to find and exploit them.

UDP
User Datagram Protocol
One of the TCP/IP suite of protocols for data transfer, which allows an application program on one machine to send a datagram to an application program on another machine.

URL
Universal Resource Locator
The global address of documents and other resources on the world wide web.

USB
Universal Serial Bus
USB is a serial protocol and physical link, which transmits all data differentially on a single pair of wires. Another pair provides power to downstream peripherals.

Virtual server
A virtual server allows you to direct incoming traffic from the Internet (identified by protocol and external port) to an internal server with a private IP address on the LAN.

WAN
Wide Area Network
WAN usually refers to a network which covers a large geographical area, and uses communications circuits to connect the intermediate nodes. A major factor impacting WAN design and performance is a requirement that they lease communications circuits from telephone companies or other communications carriers.

WEP
Wired Equivalent Privacy
Part of the IEEE 802.11 standard (ratified in September 1999), and is a scheme used to secure wireless networks (Wi-Fi). Because a wireless network broadcasts messages using radio, it is particularly susceptible to eavesdropping; WEP was designed to provide comparable confidentiality to a traditional wired network, hence the name.

WiFi
Wireless Fidelity
A wireless data networking protocol generally used to connect PCs to a network. Also known as 802.11b and WLAN (Wireless LAN), it is the most common means of wireless networking and operates at 2.4 GHz.

WPA Key
This is your Network Key to access your secure wireless connection. You will find your default one on the rear panel of your Vodafone Station.

WPS
Wireless Protected Setup is a standard for easy and secure establishment of a wireless home network. A WPS (Push Button) allows home users who know little of wireless security to configure their WiFi Protected Access at the touch of a button.