

DrayTek

VigorAP 903

802.11ac Access Point



QUICK START GUIDE

V1.1

VigorAP 903

802.11ac Access Point

Quick Start Guide

Version: 1.1

F/W: V1.3.1

Date: January 16, 2019

Warranty

We warrant to the original end user (purchaser) that the access point will be free from any defects in workmanship or materials for a period of one (1) year from the date of purchase from a DrayTek authorized dealer in the UK/Ireland. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by external factors, used with unapproved accessories or subjected to abnormal working conditions. Warranty applies to hardware only, not software or firmware. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.



Declaration of Conformity

Hereby, DrayTek Corporation declares that the radio equipment type VigorAP 903 is in compliance with Directive 2014/53/EU.
Importer: SEG, 11 Capital Business Park, Borehamwood, Herts WD6 1GW, UK
The full text of the EU Declaration of Conformity is available at the following internet address:
http://www.draytek.com.tw/ftp/VigorAP_903/Document/CE/

Manufacturer: DrayTek Corp.
Address: No. 26, Fu Shing Road, HuKou Township, HsinChu Industrial Park, Hsin-Chu, Taiwan 303
Product: VigorAP 903



Frequency Information for UK region:

2.4G WLAN	2412MHz - 2472 MHz, max. TX power: 19.86 dBm
5G WLAN	5180MHz - 5700 MHz, max. TX power: 29.86 dBm
	Requirements in AT/BE/BG/CZ/DZ/DK/EE/FR/DE/IS/IE/IT/EL/ES/ CY/LV/LI/LT/ LU/HU/MT/ NL/NO/PL/PT/RO/SI/SK/TR/FI/SE/CH/ UK/HR. 5150MHz~5350MHz is for indoor use only.

Product is compliant with EN300328. The unit should be kept at least 20 cm away from human body. Designed for use in the UK & Ireland.

Join the UK mailing list

Users in the UK & Ireland can sign up to our mailing list which goes out approximately 4 times per year with products news, updates, hints & tips and offers. For details, please visit www.draytek.co.uk/list

Firmware & Tools Updates

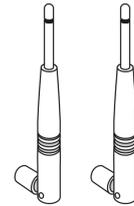
Due to the continuous evolution of DrayTek technology and emerging risks, router firmware updates may be issued. Please consult the DrayTek web site for more information on newest firmware, tools and documents. www.draytek.co.uk (For UK/Ireland)

1

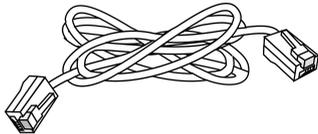
Package Contents



Access Point



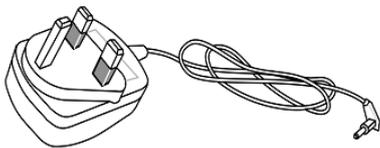
Antenna



RJ-45 Cable (Ethernet)



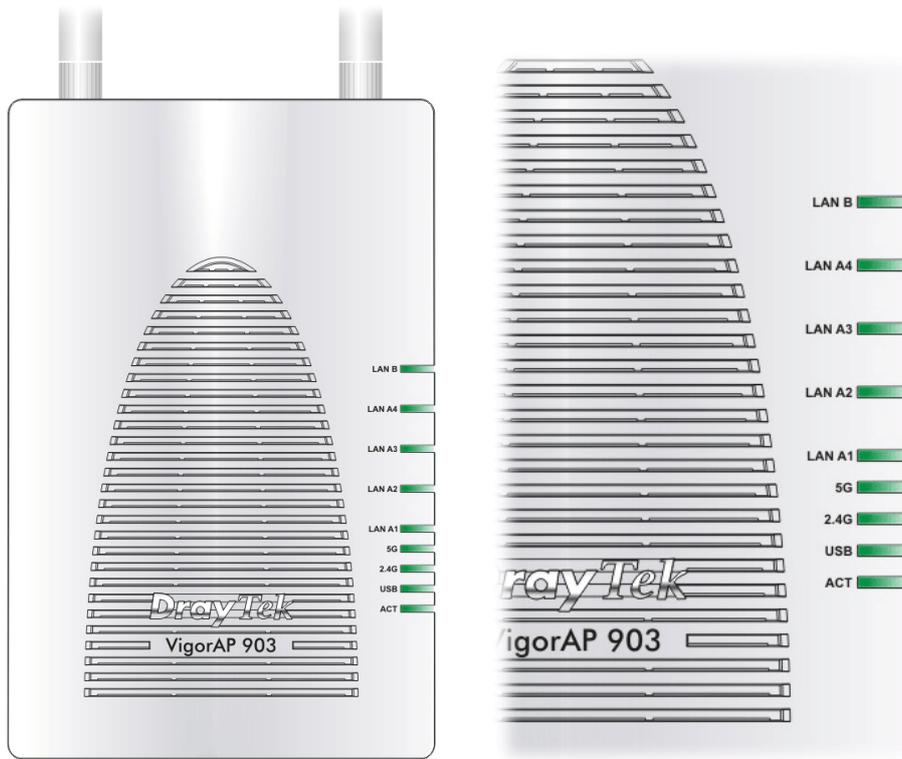
Quick Start Guide
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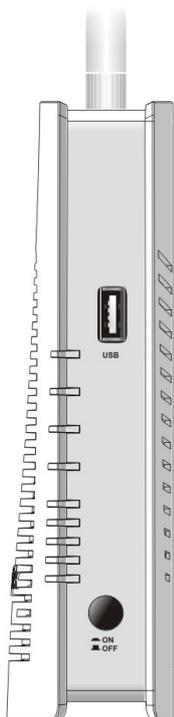
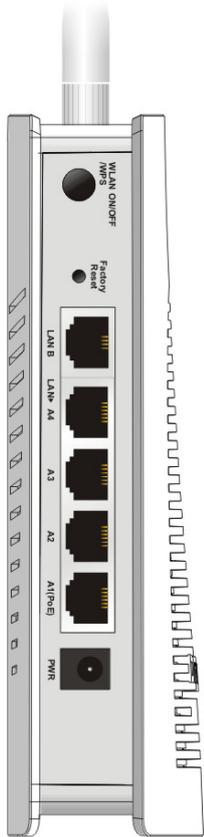
UK plug power adapter

2

Panel Explanation



LED	Status	Explanation
ACT	Off	The VigorAP is powered off
	Blinking	The VigorAP is ready and operating normally
USB	On	USB device is connected and ready for use
	Blinking	Data is being transmitted over USB
2.4G	On	2.4GHz Access Point is active
	Off	2.4GHz Access Point is turned off
	Blinking	Data is being transmitted on the AP's 2.4GHz wireless interface
5G	On	5GHz Access Point is active
	Off	5GHz Access Point is turned off
	Blinking	Data is being transmitted on the AP's 5GHz wireless interface
LAN A1 - A4	On	Ethernet LAN (RJ45) is connected
	Off	Ethernet LAN is disconnected
	Blinking	Data is transmitting (sending/receiving)
LAN B	On	Ethernet LAN (RJ45) is connected
	Off	Ethernet LAN is disconnected
	Blinking	Data is transmitting (sending/receiving)



Interface	Description
	<p>Wireless band will be switched on/off in a cycle.</p> <p>For example,</p> <ul style="list-style-type: none"> ● 2.4G (On) and 5G (On) – Default state. ● 2.4G (Off) and 5G (On) – press and release the button once. ● 2.4G (On) and 5G (Off) – press and release the button twice. ● 2.4G (Off) and 5G (Off) – press and release the button three times. <p>When WPS is enabled in the router’s web interface, press this button for more than 2 seconds to enable WPS pairing mode</p>
	<p>Restore the default settings. Usage: Turn on the VigorAP (ACT LED is blinking). Press gently and hold for more than 10 seconds. When the ACT LED blinks rapidly, release the button and the AP will restart with its factory default configuration</p>
LAN B	<p>RJ-45 Gigabit Ethernet connector for local network devices. Separate from LAN-A when “Enable 2 Subnet (Simulate 2 APs)” is enabled</p>
LAN A4, A3, A2 A1 (PoE)	<p>RJ-45 Gigabit Ethernet connectors for local network devices / uplink to router LAN A1 is also used for powering the VigorAP via PoE connection (for indoor use)</p>
	<p>Connector for the power adapter</p>
	<p>Connector for a USB device (for temperature sensor)</p>
	<p>Power switch.</p>



Note

For safety reasons, keep the accessory kit away from small children

3

Installation

This section includes guidance on initial hardware connection of the VigorAP and how to wall-mount the VigorAP.

1. Connect VigorAP 903 to your router, or a switch on your network through a **LAN-A** port of the access point by Ethernet cable.

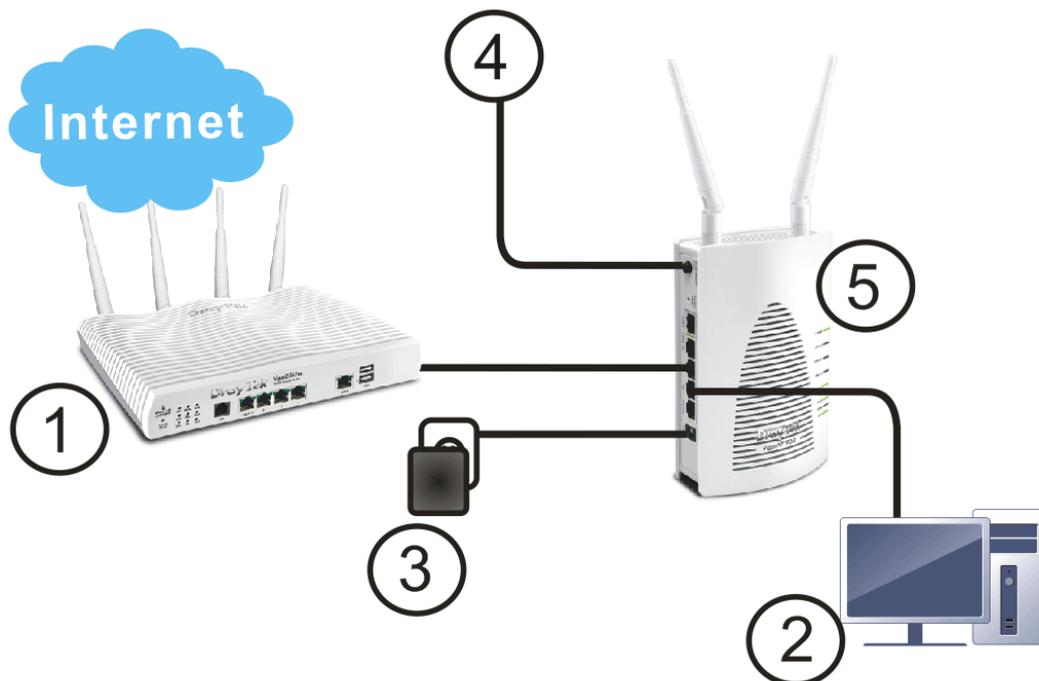


Note

You can also connect the VigorAP 903 to a Vigor router via wireless connection.

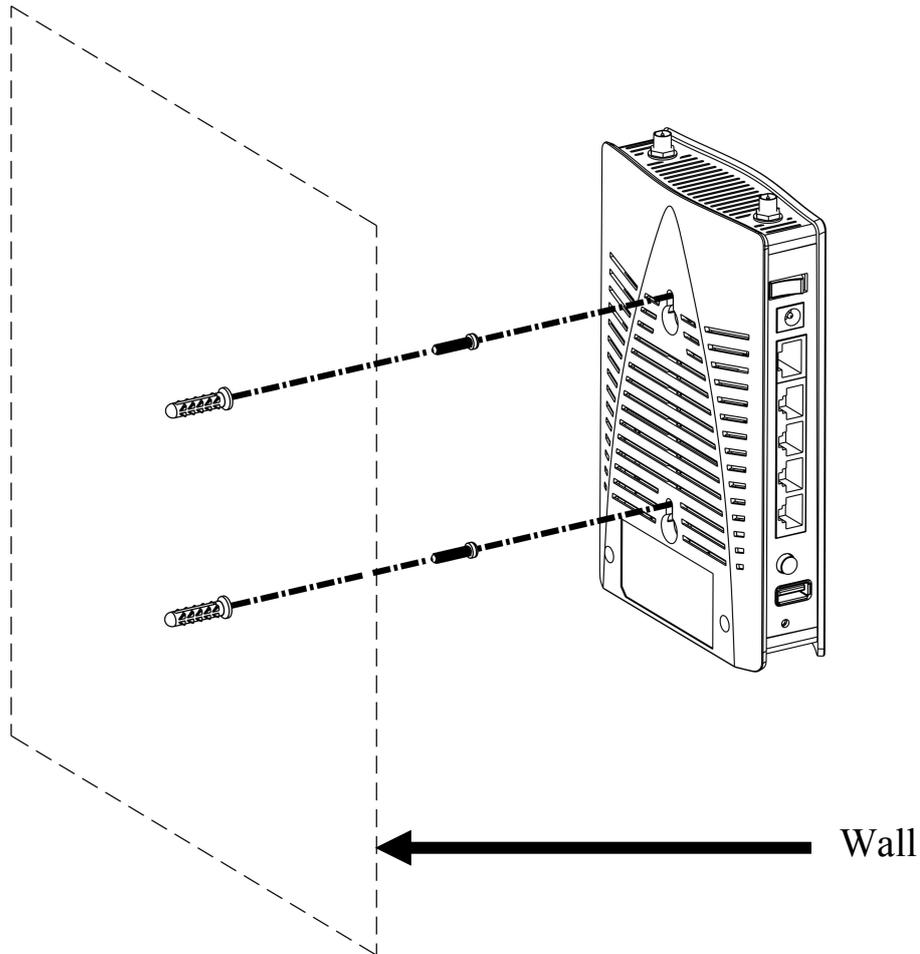
For detailed information, refer to the VigorAP 903 User Guide

2. Connect a computer to another LAN port on the VigorAP. Make sure the subnet IP address of the PC is the same as VigorAP 903 management IP, e.g., **192.168.1.X**.
3. Connect the A/C power adapter to the wall socket, and connect it to the PWR connector of the access point.
4. Power on VigorAP 903.
5. Check all LEDs on the front panel. **ACT** LED should blink, **LAN** LEDs will also be on if the access point is correctly connected to the router or network switch.



Wall Mounting the DrayTek VigorAP 903

1. Drill two holes on the wall. The distance between the holes shall be 80mm. The recommended drill diameter is 6.5mm (1/4”).
2. Fit screws into the wall using the included wall plugs
3. Screw the supplied mounting screws into the wall plugs and ensure the fit is secure
4. Hang the VigorAP directly on the mounting screws and slide it down into place to securely fit the AP into place



4

Initial Configuration

This section has three parts, with the first two demonstrating how to locate the VigorAP on your network when connected to a DrayTek Vigor router.

If you already know the IP address of the VigorAP 903 on your network, go to part **4.3 Web Configuration** to configure the VigorAP for use.

4.1 Connect to a Vigor Router using AP Management

Your VigorAP can be used with Vigor routers which support AP management (such as the Vigor 2862 or Vigor 2762 series). AP Management enables you to monitor and manage multiple DrayTek APs from a single interface.

1. From the web interface of your Vigor router with AP management, open the menu **Central AP Management>>Status**.

Central AP Management >> Status

Index	Device Name	IP Address	SSID	Encryption	Ch.	WL Client	Version	Password	
 1	AP810_007620482810	10.28.60.11						<input type="text" value="Password"/>	<input type="checkbox"/>
 2	AP910C_00507F22334	10.28.60.12						<input type="text" value="Password"/>	<input type="checkbox"/>

Note:

 Green : Online  Red : Offline  Grey : Hidden SSID

Maximum support 20 APs.

When AP Devices connect via another intermediate router or switch, please check/unblock the following ports **UDP:67,68,4944** and **TCP:80** of the router/switch, thus AP status can be retrieved.

2. Locate the new VigorAP. Click the IP address assigned by your Vigor router to access the web user interface of your VigorAP.
3. After typing the default username and password (admin/admin), the VigorAP's web management interface will be displayed.
Remember to change your VigorAP's management password after performing the initial setup.

4.2 Connect to Vigor router without AP Management

1. Access into the web user interface of Vigor router. Here we take Vigor2830 as an example. Open **External Devices**.

External Devices

External Device Auto Discovery

External Devices Connected

Below shows available devices that connected externally:

For security reason:

If you have changed the administrator password on External Device, please click the **Account** button to retype new username and password. Otherwise, the router will be unable to monitor the External Device device properly. Click the **Clear** button to Clear the off-line information and account information.

OK

2. Check (tick) **External Device Auto Discovery** and click **OK**. When the VigorAP 903 appears in the list of discovered devices, click the assigned by Vigor router appears, click it to access the web interface of your VigorAP.
3. After typing the default username and password (admin/admin), the VigorAP's web management interface will be displayed.

4.3 Web Configuration

Before using your VigorAP, you should confirm other settings:

- The VigorAP's LAN IP address
- SSID and Security setting for 2.4G and 5GHz bands
- Administrator's name and password



Note

If the VigorAP is connected to a router's network, connect your PC to that network and ensure your PC's IP address is assigned dynamically.

If connected directly to the VigorAP with no other network, configure your PC with an IP address in the 192.168.1.x range.

- If there is no DHCP server on the network, then the VigorAP 903 will have an IP address of 192.168.1.2.
 - If there is DHCP available on the network, then the VigorAP 903 will receive its IP address via the DHCP server.
 - If you connect to VigorAP by wireless LAN, you could try to access the web user interface through <http://vigorap.com>.
-

1. Find the IP address of the VigorAP 903 using the note above, or locate it using the DrayTek router in parts **4.1** and **4.2** of this guide.

DrayTek

VigorAP903

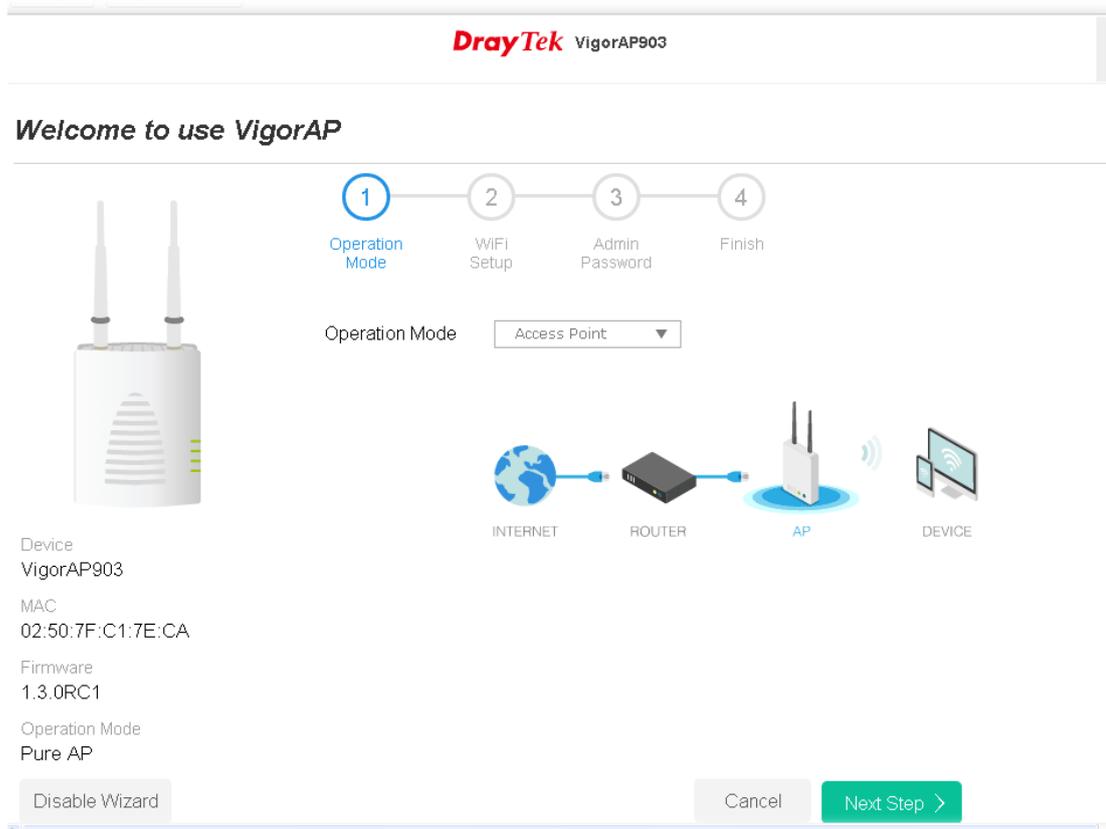
User Name

Password

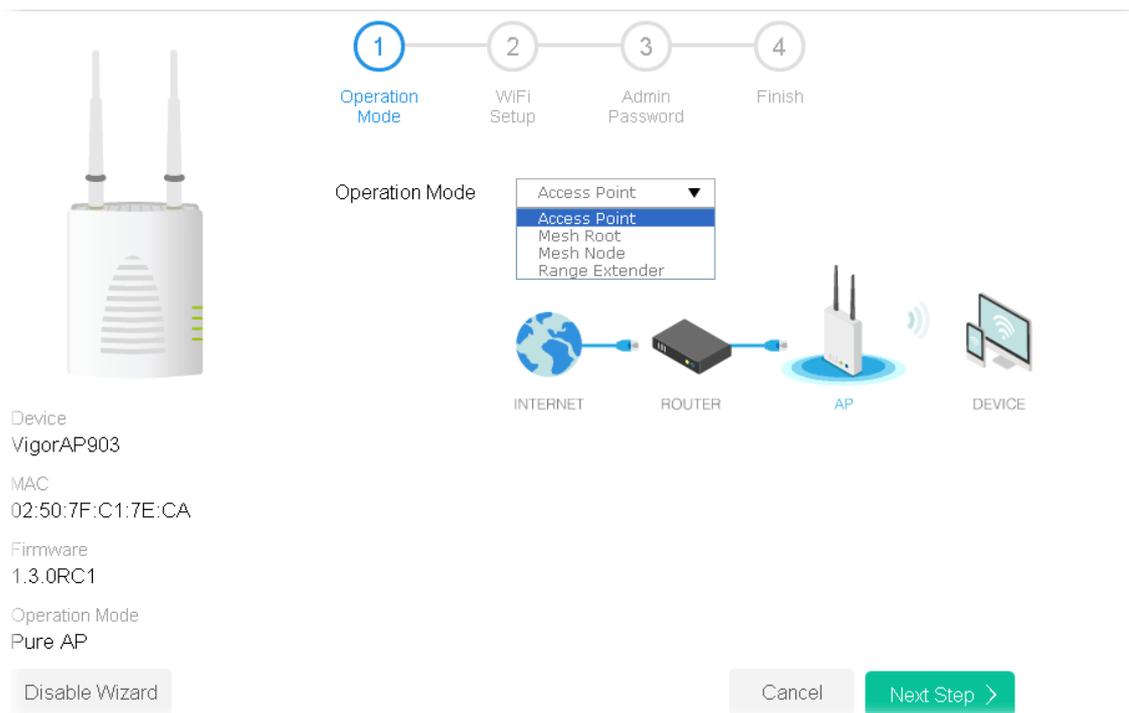
Login

2. Open a web browser on your PC and type **http://192.168.1.2**. A pop-up window will open to ask for username and password. Enter the default Username of "admin", default Password of "admin" and click **Login**.

3. Upon accessing the VigorAP's web interface, it will present the **Quick Start Wizard** to assist with initial wireless configuration:



4. Select an operation mode (Access Point, Mesh Root, Mesh Node or Range Extender) and click **Next Step**. This guide demonstrates the setup of **Access Point (AP)** mode:



5. Configure the VigorAP's wireless network name and security settings (for both 2.4GHz and 5GHz).

Welcome to use VigorAP



1 Operation Mode 2 WiFi Setup 3 Admin Password 4 Finish

Your AP is under default config. Please setup first.

WiFi Name:

WiFi Password:

Enable Guest Wireless

Guest WiFi Name:

Guest WiFi Password:

Enable Bandwidth Limit

Enable Station Control

Device
VigorAP903

MAC
02:50:7F:C1:7E:CA

Firmware
1.3.0RC1

Operation Mode
Pure AP

WiFi Name

We recommend changing the default SSID (the wireless network name which is visible to users) from “DrayTek-LAN-A” to represent your network.

WiFi Password

The VigorAP has a default security key printed on a label on its base but you should change the password here – choose a ‘strong’ password (complex with a mix of letters, symbols and numbers).

Enable Guest Wireless

This option enables a secondary WiFi network through the VigorAP's LAN-B port (requires router configuration to match).

Enable Bandwidth Limit

Configure bandwidth limits users connected to the VigorAP's wireless network.

Enable Station Control

Configure time limits for users connecting to the VigorAP's wireless network.

Then click **Next Step**.

- Now change the management password for the VigorAP and click **Next Step**. This secures the VigorAP from unwanted configuration changes.

Welcome to use VigorAP



1 — 2 — 3 — 4
Operation Mode — WiFi Setup — Admin Password — Finish

Your AP is under default config. Please setup first.

Admin Password:

Confirm Password:

Device
VigorAP903

MAC
02:50:7F:C1:7E:CA

Firmware
1.3.0RC1

Operation Mode
Pure AP

< Back Cancel Next Step >

- Now, a summary of settings configuration will be shown on screen. Click **Finish**.

Welcome to use VigorAP



1 — 2 — 3 — 4
Operation Mode — WiFi Setup — Admin Password — Finish

Basic settings are completed. Press Finish button apply changes.

Operation Mode	Pure AP
WiFi Name	DrayTek-LAN-A
Guest WiFi Name	DrayTek-LAN-B
Bandwidth Limit	Disabled
Station Control	Disabled

Device
VigorAP903

MAC
02:50:7F:C1:7E:CA

Firmware
1.3.0RC1

Operation Mode
Pure AP

< Back Cancel Finish

- The VigorAP will now be configured with the details specified in the **Quick Start Wizard** and will be ready for use.

Click **Dashboard** to see an overview of the VigorAP's status information and network details:

DrayTek VigorAP903 VigorAP903 Mesh_Root Admin

WIRELESS CLIENTS PER RADIO

18 Clients

- 2.4 GHz: 10 /64
- 5 GHz: 8 /64

CHANNEL LOAD

Heavy

- Ch 11: Heavy, 73%
- Ch 36: Light, 11%

THROUGHPUT

2.4 GHz	0 bps	0 bps
5 GHz	0 bps	0 bps

MESH NETWORK

RECENT ACTIVITIES (Last 24 hours)

2.4 GHz

Throughput (Kbps) vs Clients

5 GHz

Throughput (Kbps) vs Clients

USAGE PER SSID

Radio	Usage	Total	Percentage
2.4GHz Total Usage	2.85 GB	2.85 GB	100%
5GHz Total Usage	17.47 MB	17.47 MB	100%
DrayTek-Mesh-2.4G	2.85 GB	2.85 GB	100%
DrayTek-LAN-B	0 B	0 B	0%
DrayTek-Mesh-5G	17.47 MB	17.47 MB	100%
DrayTek-LAN-B	0 B	0 B	0%

PORT STATUS

DEVICE OVERVIEW

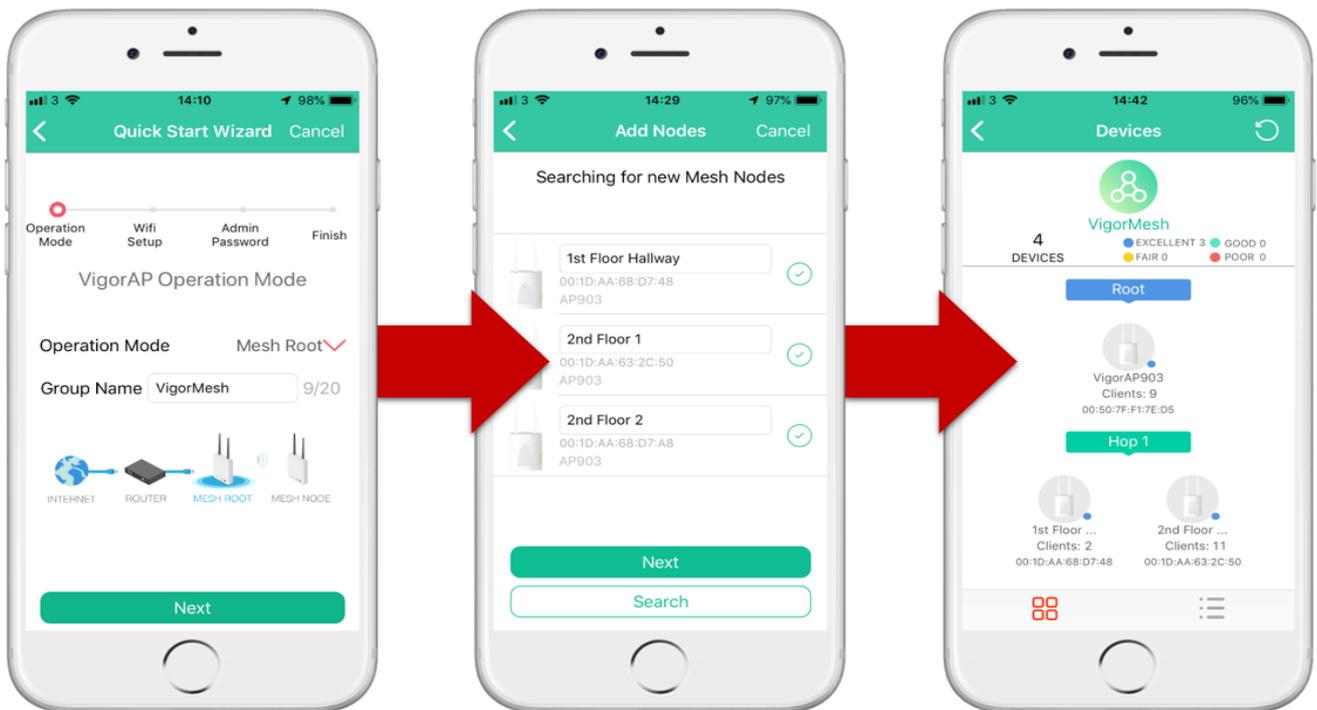
Device Name	VigorAP903	<input type="text"/>
IP Address	192.168.1.12	<input type="text"/>
Gateway		<input type="text"/>
MAC	00:1D:AA:22:33:44	<input type="text"/>
Uptime	3d 23:03:18	
Firmware	1.3.0RC1	
Build Date		
ACS Server		<input type="text"/>

Configuring the VigorAP with Android / iOS App

DrayTek also provide an application for mobile devices such as phones and tablets to easily set up the VigorAP 903 and its mesh functionality. Once configured, the DrayTek VigorAP app can be used to monitor the status of the VigorAP access point.

To use this with the DrayTek VigorAP 903, install the **VigorAP** app made by **DrayTek** from the Apple App & Google Play stores.

After installing the VigorAP app, connect to the VigorAP's wireless network to perform configuration of the VigorAP as you would do through the AP's web interface:



At present, the VigorAP app is compatible with the new DrayTek VigorAP 903 and VigorAP 920R access points.

Keep up to date with our mailing list

Now that you have your DrayTek product, you should keep up to date with product updates (firmware), security advisories and other product news, advice or special offers. Users in the UK/Ireland can subscribe to our mailing list. For details and to subscribe, please visit www.draytek.co.uk/list. In other countries or regions, please contact your local distributor/supplier for local options.

Wireless Access Points provide convenience and flexibility, but you should always take security seriously. You can learn more about improving your wireless and network security in our special guide, available from www.draytek.co.uk/best

Firmware Updates

Firmware updates for your product ensure that you have the latest set of features, security updates and improvements for your product. Users in the UK/Ireland can download these from www.draytek.co.uk/support

Getting Help & Support

If you need help with using your DrayTek product, please contact your dealer for further assistance. For support in the UK/Ireland, you can also visit the support section on www.draytek.co.uk. From there you can view the knowledgebase or contact our support department for assistance with any eligible product.

If you are **outside** of the UK/Ireland and need assistance, please contact your own local supplier, email to support@draytek.com or visit www.draytek.com/support

For warranty service, in the first instance, please contact the support services, as listed above, for help in diagnosing or eliminating the problem or issue. The support department can arrange repair or service if then deemed necessary.

The standard Vigor AP-903 warranty is 'Return to base' (RTB) unless you have VigorCare which provides enhanced services (see www.draytek.co.uk/vigorcure).

You should keep your proof of purchase (original invoice) safely in case warranty or other service is ever required.