



## **DAP-1360U**

### **Wireless N300 Access Point & Router**

## BEFORE YOU BEGIN

### *Delivery Package*

- Access point DAP-1360U
- Power adapter DC 12V/0.5A
- Ethernet cable
- Two detachable antennas
- “*Quick Installation Guide*” (brochure).

If any of the items are missing, please contact your reseller.

The “*User Manual*” and “*Quick Installation Guide*” documents are available on D-Link website (see [www.dlink.ru](http://www.dlink.ru)).

**!** Using a power supply with a different voltage rating than the one included will cause damage and void the warranty for this product.

### *Default Settings*

<b>IP address of access point</b>	<b>192.168.0.50</b>
<b>Username (login)</b>	<b>admin</b>
<b>Password</b>	<b>admin</b>
<b>Name of wireless network (SSID)</b>	<b>DAP-1360</b>
<b>Network key (PSK)</b>	see WPS PIN on the barcode label on the bottom panel of the device

## ***System Requirements and Equipment***

- A computer with any operating system that supports a web browser.
- A web browser to access the web-based interface of the access point:
  - Apple Safari 8 and later
  - Google Chrome 48 and later
  - Microsoft Internet Explorer 10 and later
  - Microsoft Edge 20.10240 and later
  - Mozilla Firefox 44 and later
  - Opera 35 and later.
- A NIC (Ethernet or Wi-Fi adapter) to connect to the access point.
- An 802.11b, g, or n Wi-Fi adapter to create a wireless network.

## CONNECTING TO PC

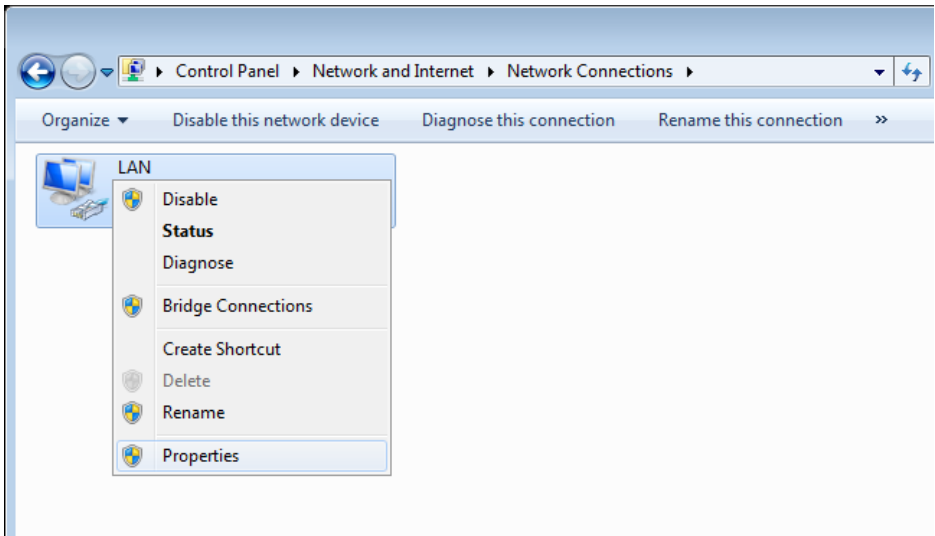
### *PC with Ethernet Adapter*

1. Connect an Ethernet cable between any of LAN ports located on the back panel of the access point and the Ethernet port of your PC.
2. Connect the power cord to the power connector port on the back panel of the access point, then plug the power adapter into an electrical outlet or power strip.
3. Turn on the access point by pressing the **ON/OFF** button on its back panel.

Now you need to configure an IP address for the Ethernet adapter of your PC.

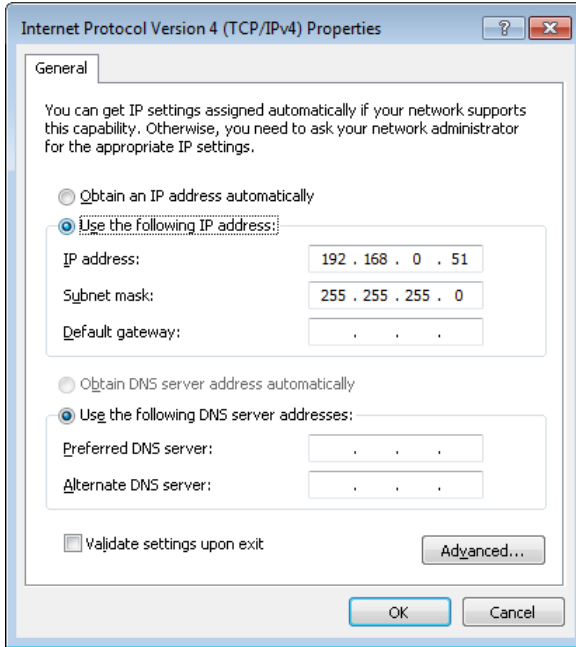
## Configuring IP Address in OS Windows 7

1. Click the **Start** button and proceed to the **Control Panel** window.
2. Select the **Network and Sharing Center** section. (If the Control Panel has the category view (the **Category** value is selected from the **View by** drop-down list in the top right corner of the window), choose the **View network status and tasks** line under the **Network and Internet** section.)
3. In the menu located on the left part of the window, select the **Change adapter settings** line.
4. In the opened window, right-click the relevant **Local Area Connection** icon and select the **Properties** line in the menu displayed.



5. In the **Local Area Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.

6. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.



7. Click the **OK** button in the connection properties window.

Now you can connect to the web-based interface of DAP-1360U for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

## ***PC with Wi-Fi Adapter***

1. Attach the antennas from the delivery package. To do this, remove the antennas from their wrapper, attach them to the relevant connectors on the back panel of the access point, and then screw the antennas in a clockwise direction to the back panel. Position the antennas upward at their connecting joints. This will ensure optimal operation of your wireless network.
2. Connect the power cord to the power connector port on the back panel of the access point, then plug the power adapter into an electrical outlet or power strip.
3. Turn on the access point by pressing the **ON/OFF** button on its back panel.
4. Make sure that the Wi-Fi adapter of your PC is on. As a rule, modern notebooks with built-in wireless NICs are equipped with a button or switch that turns on/off the wireless adapter (refer to your PC documents). If your PC is equipped with a pluggable wireless NIC, install the software provided with your Wi-Fi adapter.

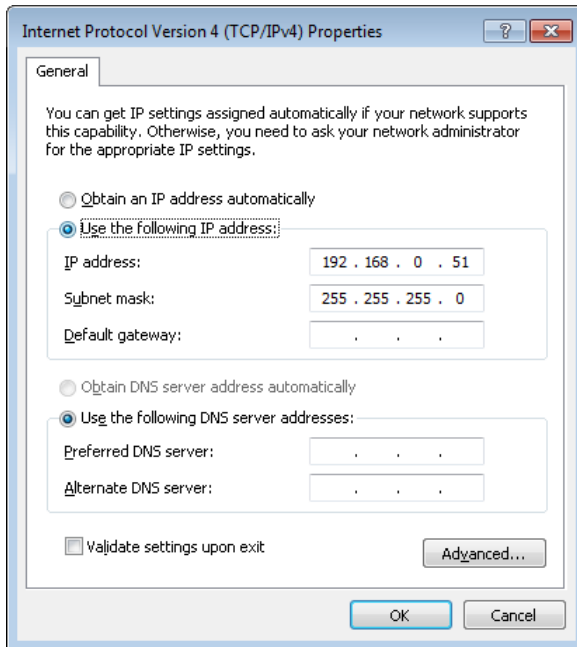
Now you should configure your Wi-Fi adapter.

## ***Configuring Wi-Fi Adapter in OS Windows 7***

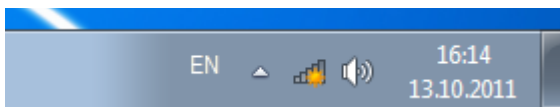
1. Click the **Start** button and proceed to the **Control Panel** window.
2. Select the **Network and Sharing Center** section. (If the Control Panel has the category view (the **Category** value is selected from the **View by** drop-down list in the top right corner of the window), choose the **View network status and tasks** line under the **Network and Internet** section.)
3. In the menu located on the left part of the window, select the **Change adapter settings** line.
4. In the opened window, right-click the relevant **Wireless Network Connection** icon. Make sure that your Wi-Fi adapter is on, then select the **Properties** line in the menu displayed.
5. In the **Wireless Network Connection Properties** window, on the **Networking** tab, select the **Internet Protocol Version 4 (TCP/IPv4)** line. Click the **Properties** button.



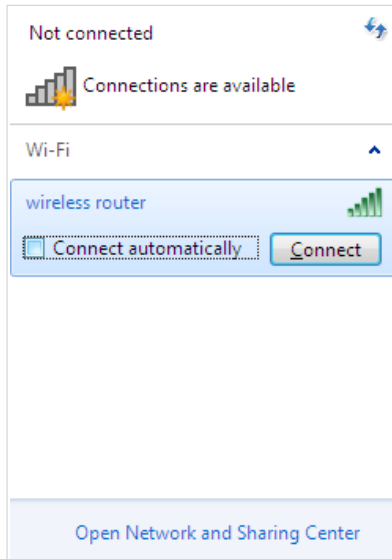
6. Select the **Use the following IP address** radio button and enter the value **192.168.0.51** in the **IP address** field. The **Subnet mask** field will be filled in automatically. Click the **OK** button.



7. Click the **OK** button in the connection properties window.
8. To open the list of available wireless networks, select the icon of the wireless network connection and click the **Connect To** button or left-click the network icon in the notification area located on the right side of the taskbar.



- In the opened window, in the list of available wireless networks, select the wireless network **DAP-1360** and click the **Connect** button.



- In the opened window, enter the network key (see WPS PIN on the barcode label on the bottom panel of the device) in the **Security key** field and click the **OK** button.
- Wait for about 20-30 seconds. After the connection is established, the network icon will be displayed as the signal level scale.

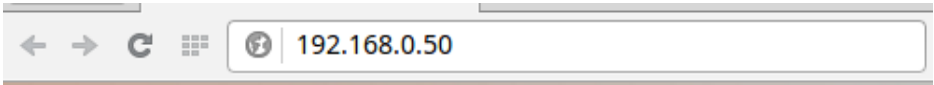
Now you can connect to the web-based interface of DAP-1360U for configuring all needed parameters. To gain access to an external network (to the Internet), you also need to specify the default gateway and the addresses of DNS servers.

**!** If you perform initial configuration of the access point via Wi-Fi connection, note that immediately after changing the wireless default settings of the access point you will need to reconfigure the wireless connection using the newly specified settings.

# CONFIGURING ACCESS POINT

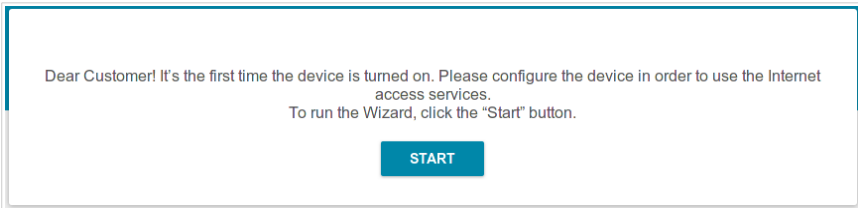
## Connecting to Web-based Interface

Start a web browser. In the address bar of the web browser, enter the domain name of the access point (by default, **dlinkap.local**) with a dot at the end and press the **Enter** key. Also you can enter the IP address of the device (by default, **192.168.0.50**).

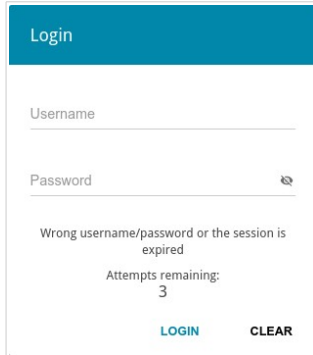


**!** If the error “*The page cannot be displayed*” (or “*Unable to display the page*”/“*Could not connect to remote server*”) occurs upon connecting to the web-based interface of the access point, make sure that you have properly connected the device to your computer.

If the device has not been configured previously or the default settings have been restored, after access to the web-based interface the Initial Configuration Wizard opens (see the **Initial Configuration Wizard** section, page 14).



If you configured the device previously, after access to the web-based interface the login page opens. Enter the username (**admin**) in the **Username** field and the password you specified in the **Password** field, then click the **LOGIN** button.



The screenshot shows a web-based login interface. At the top, there is a blue header with the word "Login" in white. Below the header, there are two input fields: "Username" and "Password". The "Password" field has a small eye icon to its right. Below the input fields, there is a message: "Wrong username/password or the session is expired". Underneath this message, it says "Attempts remaining: 3". At the bottom of the form, there are two buttons: "LOGIN" in blue and "CLEAR" in black.

If you enter a wrong password several times, the web-based interface will be blocked for a while. Please wait for one minute and reenter the password you specified.

The **Summary** page displays general information on the access point and its software.

The screenshot shows the 'Summary' page of the DAP-1360U web interface. The page is organized into four main sections:

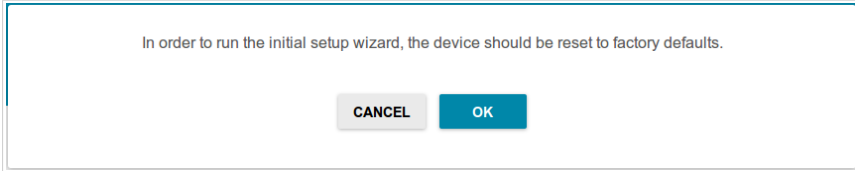
- Device Information:**
  - Model: DAP-1360
  - Hardware revision:
  - Firmware version: 3.0.1
  - Build time: Thu Nov 15 2018 6:05:31 PM MSK
  - Vendor: D-Link Russia
  - Serial number: 6234567891255
  - Support: [support@dlink.ru](mailto:support@dlink.ru)
  - Phone: 8-800-700-5465
  - Summary: Root filesystem image for DAP-1360
  - Uptime: 00:06:34
  - Device mode: [Extender](#)
- LAN:**
  - LAN IPv4: 192.168.0.50
  - Wireless connections: -
  - Wired connections: 1
- LAN Ports:**
  - LAN1: 100M-Full
  - LAN2: Off
  - LAN3: Off
  - LAN4: Off
  - WAN: Off
- Wi-Fi 2.4 GHz:**
  - Status: On
  - Broadcasting: On
  - Additional networks: 0
  - Network name (SSID): DAP-1360-0505
  - Security: WPA2-PSK

The web-based interface of the access point is bilingual (English/Russian). You can select the needed language upon the initial configuration of the web-based interface of the access point or in the **System / Configuration** section of the menu.

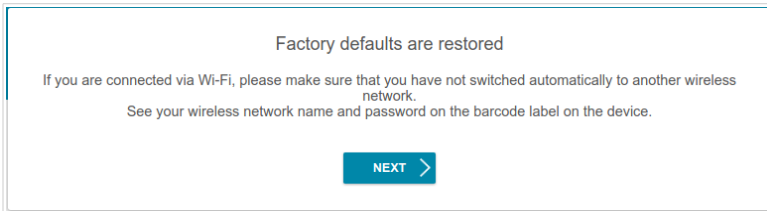
Other settings of the access point are available in the menu in the left part of the page. Go to the relevant section and select the needed page or run the wizard in the **Initial Configuration** section.

## Initial Configuration Wizard

In order to start the Initial Configuration Wizard manually, go to the **Initial Configuration** section.

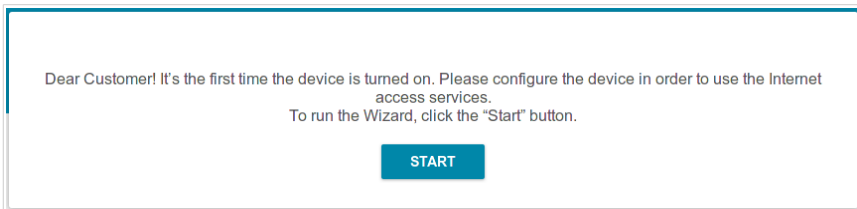


Click the **OK** button and wait until the factory default settings are restored.

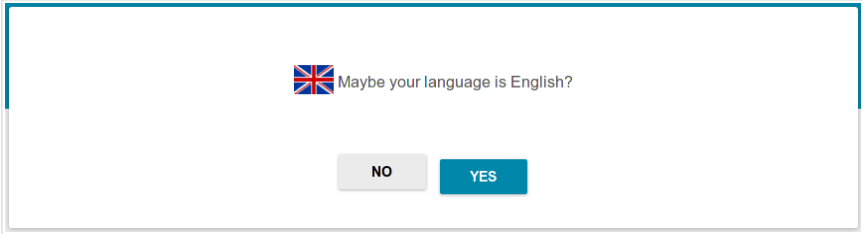


If you perform initial configuration of the access point via Wi-Fi connection, please make sure that you are connected to the wireless network of DAP-1360U (see the WLAN name (SSID) in the *Default Settings* section, page 2) and click the **NEXT** button. Then click the **START** button.

If the device has not been configured previously or the default settings have been restored, the Initial Configuration Wizard starts automatically upon access to the web-based interface or upon opening a web site on the Internet.



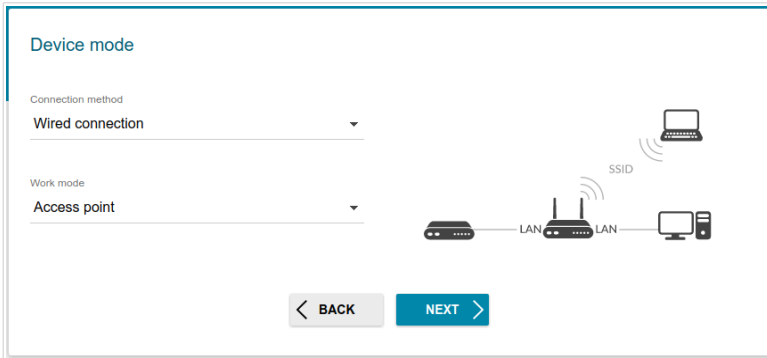
1. Click **YES** in order to leave the current language of the web-based interface or click **NO** to select the other language.



2. On the next page, click the **CONTINUE** button.

## Selecting Connection Method

In order to connect your device to a wired router for adding a wireless network to the existing local network, on the **Device mode** page, from the **Connection method** list, select the **Wired connection** value. Then from the **Work mode** list select the **Access point** value. In this mode you can change the LAN IP address, set your own settings for the wireless network and set your own password for access to the web-based interface of the device.



In order to connect your device to a wireless router for extending the range of the existing wireless network, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **Repeater** value. In this mode you can change the LAN IP address, connect your device to another access point, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.

In order to let wired PCs connected to your device access the network of a wireless router, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **Client** value. In this mode you can change the LAN IP address, connect your device to another access point and set your own password for access to the web-based interface of the device.



Also you can enable the WDS function via the Initial Configuration Wizard. To do this, on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **WDS** value. In this mode you can specify the WDS function parameters, change the LAN IP address, set your own settings for the wireless network, and set your own password for access to the web-based interface of the device.

In order to connect your device to a wired ISP, on the **Device mode** page, from the **Connection method** list, select the **Wired connection** value. Then from the **Work mode** list select the **Router** value. In this mode you can configure a WAN connection, set your own settings for the wireless network, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.

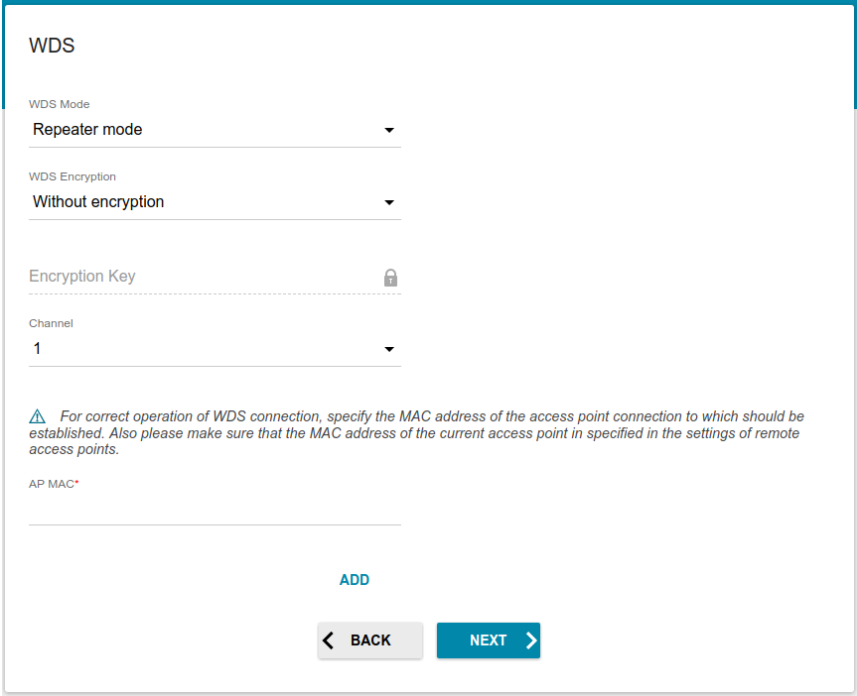
In order to connect your device to a wireless ISP (WISP), on the **Device mode** page, from the **Connection method** list, select the **Wi-Fi** value. Then from the **Work mode** list select the **WISP Repeater** value. In this mode you can connect your device to another access point, configure a WAN connection, set your own settings for the wireless network, configure LAN ports to connect an STB or VoIP phone, and set your own password for access to the web-based interface of the device.

When the operation mode is selected, click the **NEXT** button.

## Configuring WDS Function

This configuration step is available for the **WDS** mode.

1. On the **WDS** page, in the **WDS Mode** list, select the WDS function mode.



The screenshot shows the WDS configuration interface. At the top, the title "WDS" is displayed. Below it, there are four main sections: "WDS Mode" with a dropdown menu set to "Repeater mode", "WDS Encryption" with a dropdown menu set to "Without encryption", "Encryption Key" with a lock icon and a dashed line indicating a hidden field, and "Channel" with a dropdown menu set to "1". Below these sections is a warning message: "⚠ For correct operation of WDS connection, specify the MAC address of the access point connection to which should be established. Also please make sure that the MAC address of the current access point is specified in the settings of remote access points." Below the warning is a label "AP MAC\*" followed by an empty text input field. At the bottom of the form, there is a blue "ADD" button, a grey "BACK" button with a left arrow, and a blue "NEXT" button with a right arrow.

2. In the **WDS Encryption** list, select a type of encryption for data transfer between access points interconnected via the WDS function. Then enter a key for the specified type of encryption in the **Encryption Key** field (a password that will be used to access the wireless network between the interconnected access points). When the **Without encryption** value is selected, traffic between the access points will not be secured.
3. In the **Channel** list, select the wireless channel number. The same wireless channel for the interconnected access points should be specified.

4. In the **AP MAC** field, specify the MAC address of a device connected to the access point via the WDS function. To specify several MAC addresses, click the **ADD** button, and in the line displayed, enter a MAC address.



The WDS function parameters must be the same for all interconnected devices.

5. Click the **NEXT** button.

## Changing LAN IPv4 Address

This configuration step is available for the **Access point, WDS, Repeater,** and **Client** modes.

1. Select the **Automatic obtainment of IPv4 address** to let DAP-1360U automatically obtain the LAN IPv4 address.
2. In the **Hostname** field, you should specify a domain name of the access point using which you can access the web-based interface after finishing the Wizard. Enter a new domain name of the access point ending with **.local** or leave the value suggested by the access point.

**!** In order to access the web-based interface using the domain name, in the address bar of the web browser, enter the name of the access point with a dot at the end.

If you want to manually assign the LAN IPv4 address for DAP-1360U, do not select the **Automatic obtainment of IPv4 address** checkbox and fill in the **IP address, Netmask, Hostname** fields and, if needed, the **Gateway IP address** field. Make sure that the assigned address does not coincide with the LAN IPv4 address of the router to which your device connects.

LAN

Automatic obtainment of IPv4 address

Automatic obtainment of IPv4 address sufficiently protects against use of the same addresses in one LAN. In order to avoid IPv4 address conflicts, static IPv4 addresses of LAN devices should not coincide with addresses from the address range assigned by an upper-level router (or a local DHCP server).

IP address\*

192.168.0.50

Subnet mask\*

255.255.255.0

Gateway IP address

Hostname\*

dlinkap0505.local

Specify a domain name ending with .local. In order to access the web-based interface using the domain name, enter this name with a dot and slash at the end in the address bar of the web browser (for example, /dlinkap12ab.local/)


BACK NEXT


3. After changing the LAN IPv4 address of the device, make sure that the network adapter settings correspond to the new parameters.
4. Click the **NEXT** button.

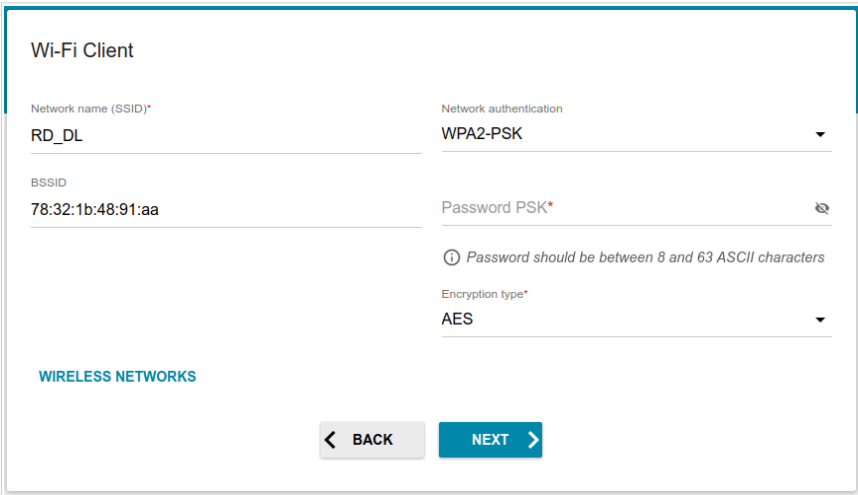
## Wi-Fi Client

This configuration step is available for the **WISP Repeater**, **Repeater**, and **Client** modes.


1. On the **Wi-Fi Client** page, click the **WIRELESS NETWORKS** button and select the network to which you want to connect in the opened window. When you select a network, the **Network name (SSID)** and **BSSID** fields are filled in automatically.

If you cannot find the needed network in the list, click the **UPDATE LIST** icon ().

2. If a password is needed to connect to the selected network, fill in the relevant field. Click the **Show** icon () to display the entered password.



Wi-Fi Client

Network name (SSID)*	Network authentication
RD_DL	WPA2-PSK
BSSID	Password PSK*
78:32:1b:48:91:aa	
	<small>ⓘ Password should be between 8 and 63 ASCII characters</small>
	Encryption type*
	AES

**WIRELESS NETWORKS**

**< BACK**      **NEXT >**

If you connect to a hidden network, enter the network name to the **Network name (SSID)** field. Then select a needed value from the **Network authentication** list and then, if needed, enter the password in the relevant field.

3. Click the **NEXT** button.

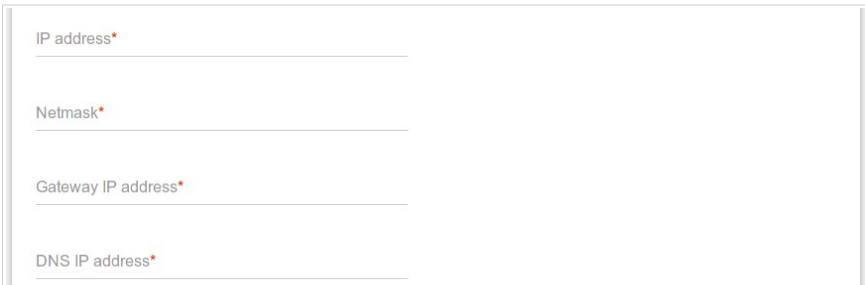
## Configuring WAN Connection

This configuration step is available for the **Router** and **WISP Repeater** modes.

**!** You should configure your WAN connection in accordance with data provided by your Internet service provider (ISP). Make sure that you have obtained all necessary information prior to configuring your connection. Otherwise contact your ISP.

1. On the **Internet connection type** page, from the **Connection type** list, select the connection type used by your ISP and fill in the fields displayed on the page.

**Static IPv4:** Fill in the following fields: **IP address**, **Netmask**, **Gateway IP address**, and **DNS IP address**.



The image shows a screenshot of a configuration form with four input fields, each with a red asterisk indicating it is required. The fields are arranged vertically and are empty.

- IP address\*
- Netmask\*
- Gateway IP address\*
- DNS IP address\*

**PPPoE, PPPoE + Dynamic IP (PPPoE Dual Access):** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (👁) to display the entered password. If authorization is not required, select the **Without authorization** checkbox.

Without authorization

Username\*

\_\_\_\_\_

Password\* 👁

\_\_\_\_\_

**PPPoE + Static IP (PPPoE Dual Access):** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (👁) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. Also fill in the following fields: **IP address**, **Netmask**, **Gateway IP address**, and **DNS IP address**.

Without authorization

Username\*

\_\_\_\_\_

Password\* 👁

\_\_\_\_\_

IP address\*

\_\_\_\_\_

Netmask\*

\_\_\_\_\_

Gateway IP address\*

\_\_\_\_\_

DNS IP address\*

\_\_\_\_\_

**PPTP + Dynamic IP or L2TP + Dynamic IP:** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (👁) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP or URL address of the PPTP or L2TP authentication server.

Without authorization

Username\*

---

Password\* 👁

---

VPN server address\*

---

**PPTP + Static IP or L2TP + Static IP:** Enter authorization data provided by your ISP (the username (login) in the **Username** field and the password in the **Password** field). Click the **Show** icon (👁) to display the entered password. If authorization is not required, select the **Without authorization** checkbox. In the **VPN server address** field, enter the IP or URL address of the PPTP or L2TP authentication server. Also fill in the following fields: **IP address**, **Netmask**, **Gateway IP address**, and **DNS IP address**.

Without authorization

Username

---

Password 🔒

---

VPN server address\*

---

IP address\*

---

Netmask\*

---

Gateway IP address\*

---

DNS IP address\*

---



2. If your ISP uses MAC address binding, select the **Clone MAC address of your device** checkbox.
3. If the Internet access is provided via a VLAN channel, select the **Use VLAN** checkbox and fill in the **VLAN ID** field.

Clone MAC address of your device

*In some ISP's networks, it is required to register a certain MAC address in order to get access to the Internet.*

Use VLAN

*Select the checkbox if the Internet access is provided via a VLAN channel.*

VLAN ID\*

4. Click the **NEXT** button.

## Configuring Wireless Network

This configuration step is available for the **Router**, **Access point**, **WISP Repeater**, **Repeater**, and **WDS** modes.

1. On the **Wireless Network 2.4 GHz** page, in the **Network name** field, specify your own name for the wireless network or leave the value suggested by the access point.
2. In the **Password** field, specify your own password for access to the wireless network or leave the value suggested by the access point (WPS PIN of the device, see the barcode label).
3. If the access point is used as a Wi-Fi client, you can specify the same parameters of the wireless network as specified for the network to which you are connecting. To do this, click the **USE** button (available for the **Repeater** mode only).
4. You can restore the parameters of the wireless network specified before resetting to factory defaults. To do this, click the **RESTORE** button.

### Wireless Network 2.4 GHz

Enable

Broadcast wireless network 2.4 GHz

*Disabling broadcast does not influence the ability to connect to another Wi-Fi network as a client.*

Network name\*

mywifi\_154

Open network

Password\*

06951351

**RESTORE** You can restore network name and security that was set before applying factory settings.

5. If you want to create an additional wireless network isolated from your LAN, select the **Enable guest network** checkbox (available for the **Router** and **WISP Repeater** modes only).

Enable guest network

*Guest Wi-Fi network allows connection to your device and getting access to the Internet. Upon that computers connected to this wireless network will be isolated from the resources of your main local area network. This helps to secure your LAN while you provide access to the Internet for temporary users.*

Network name\*

Open network

Max associated clients\*

Enable shaping

Shaping (Kbit/s)\*

6. In the **Network name** field, specify your own name for the guest wireless network or leave the value suggested by the access point.
7. If you want to create a password for access to the guest wireless network, deselect the **Open network** checkbox and fill in the **Password** field.
8. If you want to limit the bandwidth of the guest wireless network, select the **Enable shaping** checkbox and fill in the **Shaping** field.
9. Click the **NEXT** button.

## Configuring LAN Ports for IPTV/VoIP

This configuration step is available for the **Router** and **WISP Repeater** modes.

1. On the **IPTV** page, select the **Is an STB connected to the device** checkbox.

IPTV

Is an STB connected to the device?

*ⓘ If your ISP provides IPTV service, you can connect an STB directly to the router without additional equipment*

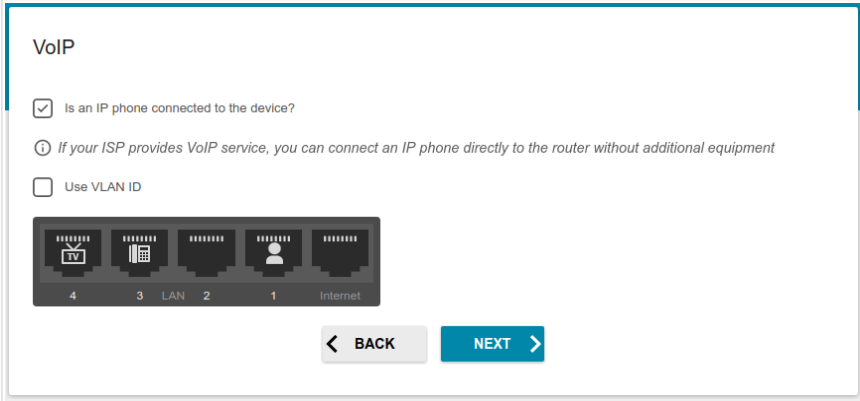
Use VLAN ID

4 3 LAN 2 1 Internet

[← BACK](#) [NEXT →](#)

2. Select a free LAN port for connecting your set-top box.
3. If the IPTV service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.
4. Click the **NEXT** button.

5. On the **VoIP** page, select the **Is an IP phone connected to the device** checkbox.



The screenshot shows a web interface titled "VoIP". It contains two checkboxes: the first is checked and labeled "Is an IP phone connected to the device?", and the second is unchecked and labeled "Use VLAN ID". Below the checkboxes is a diagram of a router's rear panel with five ports labeled 4, 3, LAN, 2, 1, and Internet. Port 4 has a TV icon, port 3 has a calendar icon, port 1 has a person icon, and the Internet port has a globe icon. At the bottom of the interface are two buttons: "BACK" with a left arrow and "NEXT" with a right arrow.

6. Select a free LAN port for connecting your IP phone.
7. If the VoIP service is provided via a VLAN channel, select the **Use VLAN ID** checkbox and fill in the **VLAN ID** field.
8. Click the **NEXT** button.

## Changing Web-based Interface Password

On this page you should change the default administrator password. To do this, enter a new password in the **Admin password** and **Password confirmation** fields. You may set any password except **admin**. Use digits, Latin letters (uppercase and/or lowercase), and other characters available in the US keyboard layout.<sup>1</sup>



Remember or write down the new password for the administrator account. In case of losing the new password, you can access the settings of the access point only after restoring the factory default settings via the hardware **RESET** button. This procedure wipes out all settings that you have configured for your access point.

Click the **NEXT** button.

On the next page, check all the settings you have just specified.

Also you can save a text file with parameters set by the Wizard to your PC. To do this, click the **SAVE CONFIGURATION FILE** button and follow the dialog box appeared.

To finish the Wizard, click the **APPLY** button. The access point will apply settings, reboot, if needed, and check the Internet connection if the Wizard has configured a WAN connection.

<sup>1</sup> 0-9, A-Z, a-z, space, !"#\$%&'()\*+,-./:;<=>?@[]\^\_`{|}~.

## Configuring Local Area Network

1. Go to the **Connections Setup / LAN** page.
2. If needed, change the IPv4 address of the access point's LAN interface and the mask of the local subnet. To do this, specify needed values in the **IP address** and **Mask** fields in the **Local IP Address** section.

Local IP Address

Mode of local IP address assignment  
Static

IP address\*  
192.168.0.50

Mask\*  
255.255.255.0

Gateway IP address

Hostname  
dlinkap0505.local

3. **IPv4 address assignment.** By default, the DHCP server of the device in the access point mode is disabled (the **Disable** value is selected from the **Mode of dynamic address assignment** drop-down list). As a rule, the DHCP server should be disabled when the device is used in the access point mode. If you need to specify other settings, change the parameters of the DHCP server.

Dynamic IP Addresses

Mode of dynamic IP address assignment  
Disable

4. After specifying the needed parameters on the **Connections Setup / LAN** page, click the **APPLY** button.

## SPECIFICATIONS\*

Hardware	
<b>Processor</b>	<ul style="list-style-type: none"> <li>· RTL8196D (620MHz)</li> </ul>
<b>RAM</b>	<ul style="list-style-type: none"> <li>· 32MB, SDRAM</li> </ul>
<b>Flash</b>	<ul style="list-style-type: none"> <li>· 4MB, SPI</li> </ul>
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>· 10/100BASE-TX WAN port</li> <li>· 4 10/100BASE-TX LAN ports</li> </ul>
<b>LEDs</b>	<ul style="list-style-type: none"> <li>· POWER</li> <li>· WLAN</li> <li>· WPS</li> <li>· INTERNET</li> <li>· 4 LAN LEDS</li> </ul>
<b>Buttons</b>	<ul style="list-style-type: none"> <li>· ON/OFF button to power on/power off</li> <li>· RESET button to restore factory default settings</li> <li>· WPS button to set up wireless connection and enable/disable wireless network</li> </ul>
<b>Antenna</b>	<ul style="list-style-type: none"> <li>· Two detachable omnidirectional antennas (5dBi gain)</li> <li>· RP-SMA connector</li> </ul>
<b>Power connector</b>	<ul style="list-style-type: none"> <li>· Power input connector (DC)</li> </ul>

\* The device features are subject to change without notice. For the latest versions of the firmware and relevant documentation, visit [www.dlink.ru](http://www.dlink.ru).



<b>Software</b>	
<b>WAN connection types</b>	<ul style="list-style-type: none"> <li>· PPPoE</li> <li>· Static IPv4 / Dynamic IPv4</li> <li>· PPPoE + Static IP (PPPoE Dual Access)</li> <li>· PPPoE + Dynamic IP (PPPoE Dual Access)</li> <li>· PPTP/L2TP</li> <li>· PPTP/L2TP + Static IP</li> <li>· PPTP/L2TP + Dynamic IP</li> </ul>
<b>Network functions</b>	<ul style="list-style-type: none"> <li>· DHCP server/relay</li> <li>· Automatic obtainment of LAN IP address (for access point/repeater/client/WDS modes)</li> <li>· DNS relay</li> <li>· Dynamic DNS</li> <li>· Static IP routing</li> <li>· IGMP Proxy</li> <li>· RIP</li> <li>· Support of UPnP IGD</li> <li>· Support of VLAN</li> <li>· WAN ping respond</li> <li>· Support of SIP ALG</li> <li>· Support of RTSP</li> <li>· Autonegotiation of speed, duplex mode, and flow control/Manual speed and duplex mode setup for each Ethernet port</li> <li>· Setup of maximum TX rate for each port of the access point</li> </ul>
<b>Firewall functions</b>	<ul style="list-style-type: none"> <li>· Network Address Translation (NAT)</li> <li>· Stateful Packet Inspection (SPI)</li> <li>· IP filter</li> <li>· MAC filter</li> <li>· URL filter</li> <li>· DMZ</li> <li>· Prevention of ARP and DDoS attacks</li> <li>· Virtual servers</li> </ul>
<b>VPN</b>	<ul style="list-style-type: none"> <li>· IPsec/PPTP/L2TP/PPPoE pass-through</li> </ul>

<b>Software</b>	
<b>Management</b>	<ul style="list-style-type: none"> <li>• Local and remote access to settings through TELNET/WEB (HTTP/HTTPS)</li> <li>• Bilingual web-based interface for configuration and management (Russian/English)</li> <li>• Support of D-Link Assistant application for Android and iPhone smartphones</li> <li>• Firmware update via web-based interface</li> <li>• Automatic notification on new firmware version</li> <li>• Saving/restoring configuration to/from file</li> <li>• Support of logging to remote host</li> <li>• Automatic synchronization of system time with NTP server and manual time/date setup</li> <li>• Ping utility</li> <li>• Traceroute utility</li> </ul>

<b>Wireless Module Parameters</b>	
<b>Standards</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11b/g/n</li> </ul>
<b>Frequency range</b>	<ul style="list-style-type: none"> <li>• 2400 ~ 2483.5MHz</li> </ul>
<b>Wireless connection security</b>	<ul style="list-style-type: none"> <li>• WEP</li> <li>• WPA/WPA2 (Personal/Enterprise)</li> <li>• MAC filter</li> <li>• WPS (PBC/PIN)</li> </ul>
<b>Advanced functions</b>	<ul style="list-style-type: none"> <li>• Support of client mode</li> <li>• WMM (Wi-Fi QoS)</li> <li>• Information on connected Wi-Fi clients</li> <li>• Advanced settings</li> <li>• Smart adjustment of Wi-Fi clients</li> <li>• Guest Wi-Fi / support of MBSSID</li> <li>• Rate limitation for wireless network/separate MAC addresses</li> <li>• Periodic scan of channels, automatic switch to least loaded channel</li> <li>• WDS</li> <li>• Autonegotiation of channel bandwidth in accordance with environment conditions (20/40 Coexistence)</li> </ul>
<b>Wireless connection rate</b>	<ul style="list-style-type: none"> <li>• IEEE 802.11b: 1, 2, 5.5, and 11Mbps</li> <li>• IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, and 54Mbps</li> <li>• IEEE 802.11n: from 6.5 to 300Mbps (from MCS0 to MCS15)</li> </ul>

<b>Wireless Module Parameters</b>	
<p><b>Transmitter output power</b></p> <p><i>The maximum value of the transmitter output power depends upon the radio frequency regulations applied in your country</i></p>	<ul style="list-style-type: none"> <li>• 802.11b (typical at room temperature 25 °C) 15dBm (+/-1.5dB) at 1, 2, 5.5, 11Mbps</li> <li>• 802.11g (typical at room temperature 25 °C) 15dBm (+/-1.5dB) at 6, 9, 12, 18, 24, 36, 48, 54Mbps</li> <li>• 802.11n (typical at room temperature 25 °C) HT20 15dBm (+/-1.5dB) at MCS0/1/2/3/4/5/6/8/9/10/11/12/13/14 14dBm (+/-1.5dB) at MCS7/15 HT40 15dBm (+/-1.5dB) at MCS0/1/2/3/4/5/6/8/9/10/11/12/13/14 14dBm (+/-1.5dB) at MCS7/15</li> </ul>
<p><b>Receiver sensitivity</b></p>	<ul style="list-style-type: none"> <li>• 802.11b (typical at PER = 8% at room temperature 25 °C) -82dBm at 1Mbps -80dBm at 2Mbps -78dBm at 5.5Mbps -76dBm at 11Mbps</li> <li>• 802.11g (typical at PER = 10% at room temperature 25 °C) -85dBm at 6Mbps -84dBm at 9Mbps -82dBm at 12Mbps -80dBm at 18Mbps -77dBm at 24Mbps -73dBm at 36Mbps -69dBm at 48Mbps -68dBm at 54Mbps</li> <li>• 802.11n (typical at PER = 10% at room temperature 25 °C) HT20 -82dBm at MCS0/8 -79dBm at MCS1/9 -77dBm at MCS2/10 -74dBm at MCS3/11 -70dBm at MCS4/12 -66dBm at MCS5/13 -65dBm at MCS6/14 -64dBm at MCS7/15</li> </ul>

### Wireless Module Parameters

	HT40 -79dBm at MCS0/8 -76dBm at MCS1/9 -74dBm at MCS2/10 -71dBm at MCS3/11 -67dBm at MCS4/12 -63dBm at MCS5/13 -62dBm at MCS6/14 -61dBm at MCS7/15
<b>Modulation schemes</b>	<ul style="list-style-type: none"> <li>· 802.11b: DQPSK, DBPSK, DSSS, CCK</li> <li>· 802.11g: BPSK, QPSK, 16QAM, 64QAM with OFDM</li> <li>· 802.11n: BPSK, QPSK, 16QAM, 64QAM with OFDM</li> </ul>

### Physical Parameters

<b>Dimensions</b>	<ul style="list-style-type: none"> <li>· 174 x 115 x 30 mm (7 x 4.5 x 1.2 in)</li> </ul>
<b>Weight</b>	<ul style="list-style-type: none"> <li>· 248 g (0.55 lb)</li> </ul>

### Operating Environment

<b>Power</b>	<ul style="list-style-type: none"> <li>· Output: 12V DC, 0.5A</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>· Operating: from 0 to 40 °C</li> <li>· Storage: from -20 to 65 °C</li> </ul>
<b>Humidity</b>	<ul style="list-style-type: none"> <li>· Operating: from 10% to 90% (non-condensing)</li> <li>· Storage: from 5% to 95% (non-condensing)</li> </ul>

## SAFETY RULES AND CONDITIONS

Please carefully read this section before installation and connection of the device. Make sure that the power adapter and cables are not damaged. The device should be used only as intended in accordance with the documents.

The device is intended for use in dry, clean, dust-free, and well ventilated areas with normal humidity away from strong heat sources. Do not use the device outdoors or in the areas with high humidity. Do not place foreign objects on the device. Do not obstruct the ventilation openings of the device. The environmental temperature near the device and the temperature inside the device's cover should be within the range from 0 °C to +40 °C.

Only use the power adapter supplied with the device. Do not plug in the adapter, if its case or cable are damaged. Plug the adapter only into working electrical outlets with parameters indicated on the adapter.

Do not open the cover of the device! Unplug the device before dusting and cleaning. Use a damp cloth to clean the device. Do not use liquid/aerosol cleaners or magnetic/static cleaning devices. Prevent moisture getting into the device or the power adapter.

The service life of the device is 2 years.

## TECHNICAL SUPPORT

You can find software updates and user documentation on our website.

D-Link provides its customers with free support within the product's warranty period.

Customers can contact the technical support group by phone or by e-mail/Internet.

### **FOR TELEPHONE NUMBERS AND ADDRESSES OF D-LINK OFFICES WORLDWIDE VISIT**

<http://www.dlink.com/corporate/worldwideoffices/>