AirOS Quick Setup Guide

Quick Setup Guide describes the configuration steps for the AirOS powered Access Point use case.

NanoStation2, LiteStation2, Bullet2 and PowerStation2 operate in 2.4 GHz IEEE 802.11b/g modes, while NanoStation5, LiteStation5, Bullet5 and PowerStation5 operate in 5 GHz IEEE 802.11a mode. All the devices can operate in Client (Station), Access Point/Repeater and WDS modes.

Note: the screenshots in this document represent PowerStation2 graphical user interface but they are also fully applicable for NanoStation2, Bullet2 and LiteStation2 series devices. The graphical user interface elements which are specific for the NanoStation5, LiteStation5 and PowerStation5 are described individually in the AirOS User's Guide at http://wiki.ubnt.com/wiki/index.php/AirOS

This document will guide you through quick and easy configuration of the subscriber station (client bridge) including:

- Changing of the IP settings (static or dynamic),

- Defining the ESSID to which the subscriber station will be associated,

- Defining the wireless security mode (None, WEP, WPA™ or WPA2™),

- Changing the administrator's password.

For the detailed setup and configuration instructions, please refer to the chapter AirOS User's Guide.

Follow these steps for subscriber station quick setup via web-browser interface:

Step 1 - Login to the web management

Open the web browser and type the default IP address of the AirOS powered device **http://192.168.1.20** into the browser address field. You will be prompted to enter the default administrator login credentials:

User Name: ubnt

Password: ubnt

After successful administrator log on you will see the **Main** page of the web management interface.

Note: your PC should have the pre-configured static IP address from the 192.168.1.0 subnet (with netmask 255.255.255.0) in order to establish the connection with the subscriber station on the same physical network segment.

Step 2 - Configure the network settings

The IP configuration is required for device management purposes. IP addresses can either be retrieved from a DHCP server or configured manually. Use the **Network** page for the IP settings configuration:

Network Mode: specify the Bridge operating mode (selected by default). Router operating mode configuration is described in the AirOS User's Guide at http://wiki.ubnt.com/wiki/index.php/AirOS

Bridge IP Address: specify the IP mode:

DHCP – choose this option to assign the dynamic IP address, Gateway and DNS address by the local DHCP server.

Static – choose this option to assign the static IP address for the device management.

IP Address: enter IP address of the device.

Netmask: enter a subnet mask of the device.

Gateway IP: enter a Gateway IP address.

Primary DNS IP: enter a DNS IP address.

Click **Change** button to save the changes.

Step 3 - Configure the basic wireless settings

Use **Link Setup** page to specify the ESSID of the Access Point:

BASIC WIRELESS SETTINGS		
Wireless Mode:	Station ▾	☐ MAC Clone
ESSID:	UBNT_AP	Select...
Lock to AP MAC:		

REQUIRED Wireless Mode: The Station (Client mode) wireless mode is selected by default for subscriber station functionality. If you want the Access Point to have Access Point functionality, please select "Access Point". If you need WDS bridge mode, you can select any mode with WDS and assign the WDS station MAC address.

REQUIRED ESSID: specify the ESSID of the Access Point. The ESSID is the ID of the Access Point which will be seen by wireless clients. There can be several Access Points with the same ESSID that form a large network with roaming capabilities.

-OPTIONAL- MAC Clone: this option makes the subscriber station transparent while acting as the PC which is connected to the LAN port (Ethernet interface). MAC Cloning option is effective for one and the only PC connected to the subscriber station's LAN port. Subscriber station will authenticate and associate to the chosen Access Point using the MAC address of the PC.

-OPTIONAL- Lock to AP MAC: specify the MAC address of the one and the only wireless network device which the subscriber station will associate to (optional). Locking to one particular AP MAC will disable roaming between several Access Points with the same ESSID. Refer to the section *Basic Wireless Settings* in the AirOS User's Guide at http://wiki.ubnt.com/wiki/index.php/AirOS for more detailed configuration information.

Step 4 - Specify the wireless security mode

Choose the security method for your wireless access network. This step is very important in order to maintain the security of your wireless network.

Security: select the security mode of your wireless network:

WIRELESS SECURITY		
Security:	WPA2 ▾	
Authentication Type:	◉ Open ○ Shared Key	
WEP Key Length:	64 bit ▾	Key Type: HEX ▾
WEP Key:		Key Index: 1 ▾
WPA Authentication:	PSK ▾ EAP-TTLS ▾ MSCHAPV2 ▾	
WPA Preshared Key:	very-secret-key	

WEAK ENCRYPTION *WEP* – enable WEP encryption.

RECOMMENDED *WPA* – enable WPA™ security mode.
WPA-TKIP – enable WPA™ security mode with TKIP support only.
WPA-AES – enable WPA™ security mode with AES support only.

RECOMMENDED *WPA2* – enable WPA2™ security mode.
WPA2-TKIP – enable WPA2™ security mode with TKIP support only.
WPA2-AES – enable WPA2™ security mode with AES support only.

Authentication Type: one of the following authentication modes should be selected if WEP security method is used:

Open Authentication – station is authenticated automatically by AP (selected by default).

Shared Authentication – station is authenticated after the challenge, generated by AP.

WPA Authentication: one of the following WPA™ key selection methods should be specified if WPA™ or WPA2™ security method is used:

PSK – WPA™ or WPA2™ with Pre-shared Key method (selected by default).

EAP – WPA™ or WPA2™ with EAP (Extensible Authentication Protocol) IEEE 802.1x authentication method. This option is used in Enterprise

networks.

WPA Pre-shared Key: the pass phrase for WPA™ or WPA2™ security method should be specified if the Pre-shared Key method is selected. The

pre-shared key is an alpha-numeric password between 8 and 63 characters long.
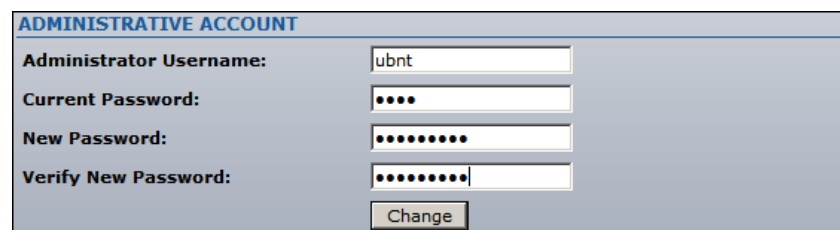
Refer to the section Basic Wireless Settings in the AirOS User's Guide at http://wiki.ubnt.com/wiki/index.php/AirOS for more detailed

configuration information.

Click **Change** button to save the changes.

Step 5 - Change administrator password

For the security reasons the default administrator's password should be changed immediately.

Use the **System** menu and specify the parameters:

Current Password: enter a current administrator password ("ubnt" by default). Default administrator username is also "ubnt".

New Password: enter a new password used for administrator authentication.

Verify Password: re-enter the new password to verify its accuracy.

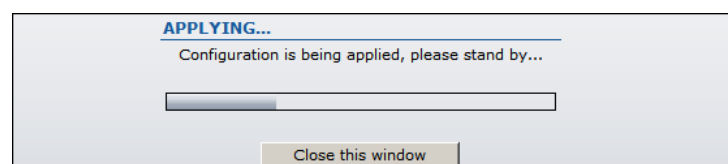Click **Change** button to save the changes.

Step 6 - Apply the changes

After each configuration change the informational message suggesting you to apply changes and reboot the device will appear:

Click the **Apply** button to apply the changes and reboot the device.

Click **Discard** button to discard the changes and start the configuration over again.

Pop-up progress window will appear during the Apply operation: