



ALL-WAP0358N

Wireless N 300Mbit AP-IP55 802.11b/g/n



Quick Installation Guide

IP Address Configuration

The default IP address of the device is **192.168.1.1**. In order to log into this device, you must first configure the TCP/IP settings of your PC/Notebook.

1. In the control panel, double click Network Connections and then double click on the connection of your Network Interface Card (NIC). You will then see the following screen.
2. Select **Internet Protocol (TCP/IP)** and then click on the **Properties** button. This will allow you to configure the TCP/IP settings of your PC/Notebook.
3. Select **Use the following IP Address** radio button and then enter the IP address (for example 192.168.1.21) and subnet mask (255.255.255.0). Ensure that the IP address and subnet mask are on the same subnet as the device.
4. Click on the **OK** button to close this window, and once again to close LAN properties window.

Logging In

1. To configure the device through the web-browser, enter the IP address of the Bridge (**default: 192.168.1.1**) into the address bar of the web-browser and press **Enter**.
2. After connecting to the IP address, the web-browser will display the login page. Specify **admin** as the default **User Name** and **Password**, and then click **OK** to login.



Administration

1. Click on the **Administration** link under the **Management** section. This option allows you to create a new user name and password for the device. For security it is highly recommended for security reasons.
2. **Name:** Specify a user name into the first field.
3. **Password:** Specify a password into this field and then re-type the password into the **Confirm Password** field. Then click on the **Apply** button.
4. Click on the **Apply** button to save the changes.

System Properties

1. Click on the **System Properties** link on the **System** section. This feature allows you to configure the device as an Access Point Client Bridge, Client Router or WDS unit.
2. **Device Name:** Specify a name for the device – this is not the SSID.
3. **Country/Region:** Select the region from the drop-down list.
4. **Operation Mode:** Select **Client Bridge**, **Access Point**, **Client Router** or **WDS (WDS AP, WDS Bridge and WDS Station)** radio button.
5. Click on the **Apply** button to save the changes.

IP Settings

1. Click on the **IP Settings** link on the **System** section. This feature allows you to configure the LAN interface using a static IP address or as a DHCP client. This IP address is also used to access the web-based interface.

2. **IP Network Setting:** Select **Obtain an IP address automatically (DHCP)** radio button if the Access Point is connected to a DHCP server. This will allow the Access Point to pass IP addresses to the clients associated with it.

You may select **Specify an IP Address** radio button if you would like the device to use a static IP address. In this case, you would be required to specify an IP address, subnet mask, and default gateway IP address.

3. **IP Address:** Specify an IP address
4. **IP Subnet Mask:** Specify the subnet mask for the IP address
5. **Default Gateway:** Specify the IP address of the default gateway.
6. Click on the **Apply** button to save the changes.

Note: If you change the IP address here, you may need to adjust your PC's network settings to access the network again.

WARNING:

If device failed to obtain valid IP from a DHCP server, the device will be inaccessible. To access the device you will have press reset button for 5 seconds to restore IP settings back to 192.168.1.1.



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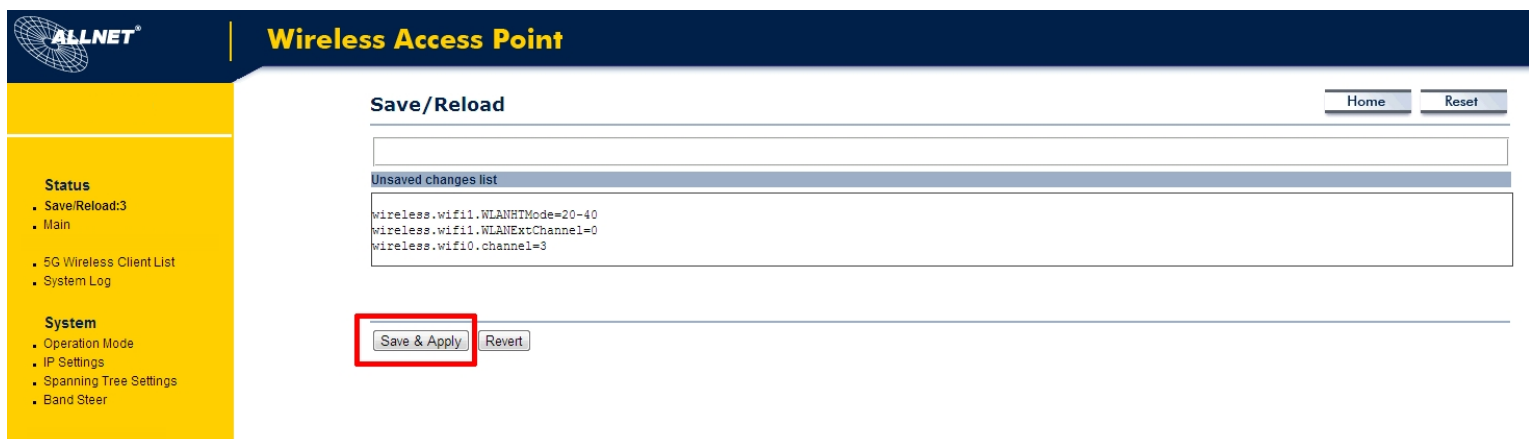
Configuration Note:

Please note that only the selection of the operation mode is applied immediately.

All other configurations are stored temporarily under SAVE / RELOAD.

These configuration settings won't be applied until you press the SAVE & APPLY button at SAVE / RELOAD.

Otherwise, all configurations will be lost when you reboot!



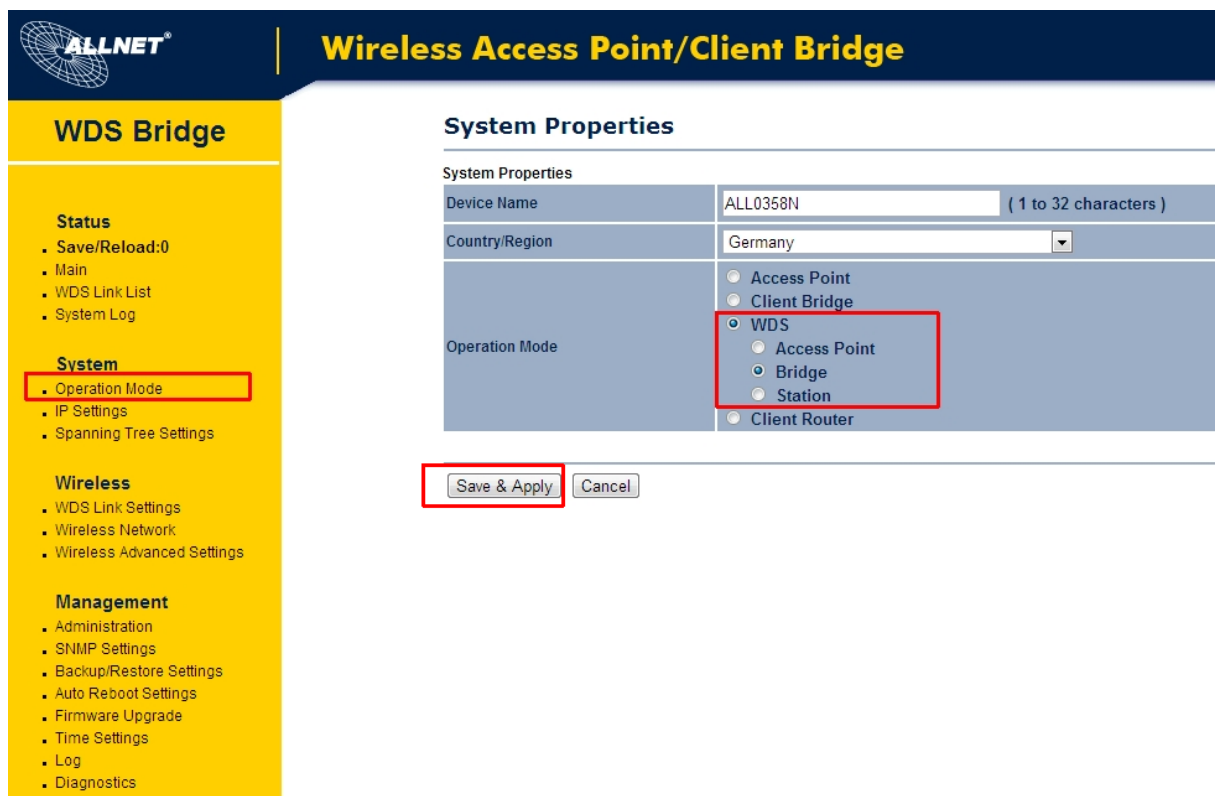
Please use only the power supply unit that is delivered with the device.

Hilfestellung für WDS-Bridge-Konfiguration

Schritt 1:

Enter the Webinterface with 192.168.1.1 admin /

Choose SYSTEM -> OPERATION MODE -> WDS -> BRIDGE and confirm with SAVE&APPLY



The screenshot displays the web interface of the ALLNET Wireless Access Point/Client Bridge. The left sidebar contains a navigation menu with the following sections:

- WDS Bridge**
 - Status
 - Save/Reload:0
 - Main
 - WDS Link List
 - System Log
 - System** (highlighted with a red box)
 - Operation Mode (highlighted with a red box)
 - IP Settings
 - Spanning Tree Settings
 - Wireless
 - WDS Link Settings
 - Wireless Network
 - Wireless Advanced Settings
 - Management
 - Administration
 - SNMP Settings
 - Backup/Restore Settings
 - Auto Reboot Settings
 - Firmware Upgrade
 - Time Settings
 - Log
 - Diagnostics

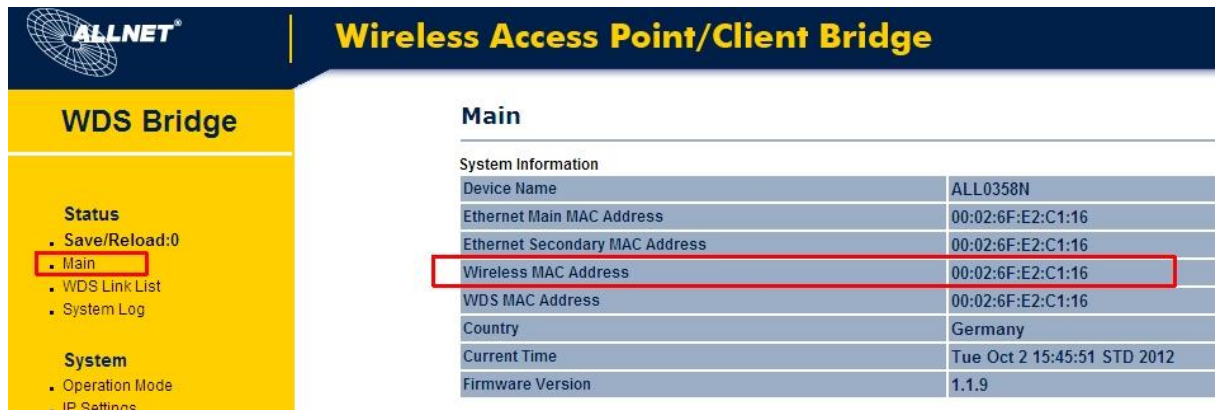
The main content area is titled "System Properties" and contains the following configuration fields:

System Properties	
Device Name	ALL0358N (1 to 32 characters)
Country/Region	Germany
Operation Mode	<ul style="list-style-type: none"><input type="radio"/> Access Point<input type="radio"/> Client Bridge<input checked="" type="radio"/> WDS<ul style="list-style-type: none"><input type="radio"/> Access Point<input checked="" type="radio"/> Bridge (highlighted with a red box)<input type="radio"/> Station<input type="radio"/> Client Router

At the bottom of the page, there are two buttons: "Save & Apply" (highlighted with a red box) and "Cancel".

Schritt 2:

To connect via WDS you will need the MAC address of the second device. This WIRELESS MAC ADDRESS is available at the webinterface MAIN window oder the backside sticker of the device.



The screenshot shows the 'Main' page of the 'Wireless Access Point/Client Bridge' web interface. On the left, the 'WDS Bridge' menu is visible with 'Main' highlighted. The main content area displays 'System Information' with the following details:

Device Name	ALL0358N
Ethernet Main MAC Address	00:02:6F:E2:C1:16
Ethernet Secondary MAC Address	00:02:6F:E2:C1:16
Wireless MAC Address	00:02:6F:E2:C1:16
WDS MAC Address	00:02:6F:E2:C1:16
Country	Germany
Current Time	Tue Oct 2 15:45:51 STD 2012
Firmware Version	1.1.9

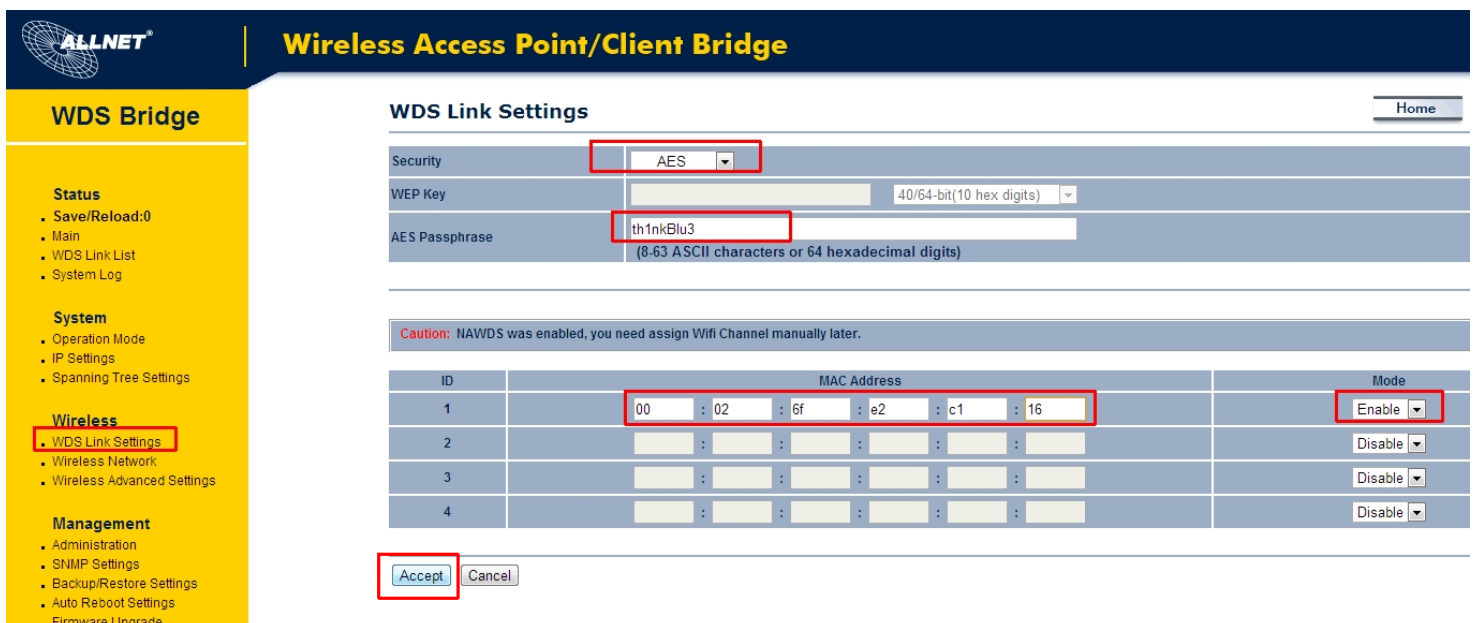
Schritt 3:

Enter the MAC ADDRESS at WIRELESS -> WDS LINK SETTINGS

ATTENTION: DO NOT ENTER THE MAC OF THIS DEVICE, IT HAVE TO BE THE SECOND DEVICE.

Configure the AES PASSPHRASE as well.

Confirm with ACCEPT.



The screenshot shows the 'WDS Link Settings' page of the 'Wireless Access Point/Client Bridge' web interface. The left menu shows 'Wireless' > 'WDS Link Settings' selected. The main content area includes the following settings:

- Security:** AES (selected)
- WEP Key:** 40/64-bit(10 hex digits)
- AES Passphrase:** th1nkBlu3 (8-63 ASCII characters or 64 hexadecimal digits)

A caution message states: "Caution: NAWDS was enabled, you need assign Wifi Channel manually later."

Below the settings is a table for configuring WDS links:

ID	MAC Address	Mode
1	00 : 02 : 6f : e2 : c1 : 16	Enable
2		Disable
3		Disable
4		Disable

At the bottom, there are 'Accept' and 'Cancel' buttons.

Schritt 4:

SYSTEM -> IP SETTINGS here you can change the IP address configuration.

WDS Bridge

Status

- Save/Reload:4
- Main
- WDS Link List
- System Log

System

- Operation Mode
- IP Settings
- Spanning Tree Settings

Wireless

- WDS Link Settings
- **Wireless Network**
- Wireless Advanced Settings

Wireless Network

Wireless Mode	802.11 B/G/N Mixed ▾
Channel HT Mode	40MHz ▾
Extension Channel	Lower Channel ▾
Channel / Frequency	Ch10-2.457GHz ▾

Accept

Cancel

Ch10-2.457GHz ▾

Ch5-2.432GHz
Ch6-2.437GHz
Ch7-2.442GHz
Ch8-2.447GHz
Ch9-2.452GHz
Ch10-2.457GHz
Ch11-2.462GHz
Ch12-2.467GHz
Ch13-2.472GHz

Schritt 5:

Both WDS Bridges must have the same Wireless CHANNEL.

Configure the Channel at WIRELESS ->WIRELESS NETWORK.

WDS Bridge

Status

- Save/Reload:4
- Main
- WDS Link List
- System Log

System

- Operation Mode
- IP Settings
- Spanning Tree Settings

Wireless

- WDS Link Settings
- **Wireless Network**
- Wireless Advanced Settings

Wireless Network

Wireless Mode	802.11 B/G/N Mixed ▾
Channel HT Mode	40MHz ▾
Extension Channel	Lower Channel ▾
Channel / Frequency	Ch10-2.457GHz ▾

Accept

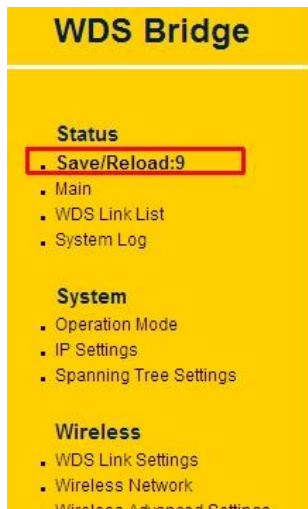
Cancel

Ch10-2.457GHz ▾

Ch5-2.432GHz
Ch6-2.437GHz
Ch7-2.442GHz
Ch8-2.447GHz
Ch9-2.452GHz
Ch10-2.457GHz
Ch11-2.462GHz
Ch12-2.467GHz
Ch13-2.472GHz

Schritt 6:

Open SAVE/RELOAD to take a look at the configurationN.

**Save/Reload**

Save/Reload

Unsaved changes list

network.lan.dns=192.168.1.1 8.8.4.4
wireless.cfg0b8091.WLANWDSPeer=00026FE2C116v
wireless.cfg0b8091.WLANWDSAESKey=thinkBlu3
-wireless.cfg0b8091.WLANWDSWEPKey
wireless.cfg0b8091.encryption=aes
wireless.wifi0.WLANHTMode=20-40
wireless.wifi0.WLANExtChannel=0
wireless.wifi0.hwmode=11n_pure
wireless.wifi0.channel=1

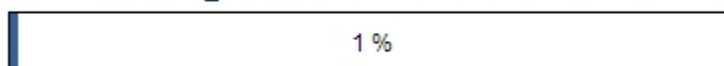
Save & Apply Revert

ATTENTION: You have to confirm the configuration with SAVE&APPLY.

Otherwise, the configuration will be deleted after the next restart.

After confirmation an progress bar will appear:

Processing now! Please wait...





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Schritt 7:

Now you have to configure the second device with the same configuration steps 1-6.

At STATUS -> WDS LINK LIST you will see if the wireless connection is successful.

The screenshot shows the web interface of an ALLNET Wireless Access Point/Client Bridge. The left sidebar contains a menu with categories: Status, System, Wireless, and Management. Under Status, 'WDS Link List' is highlighted. The main content area is titled 'WDS Link Status' and features a table with the following data:

WDS Link ID	MAC Address	Link Status	RSSI (dBm)
1	00:02:6f:e2:c1:16	UP	-39

Buttons for 'Home' and 'Reset' are located at the top right of the table area, and a 'Refresh' button is at the bottom left. The 'UP' status and the RSSI value '-39' are highlighted with a red box in the original image.

CONFIGURATION FINISHED!



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