

W301A
300Mbps Wireless Access Point
User Guide

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Chapter 1 Product Overview

W301A is a wireless Access Point based on the latest IEEE802.11n standard while at the same time being backwards compatible with IEEE802.11b/g devices. Adopting the advanced “Multiple in and Multiple out” (MIMO) technology, it can provide a maximum of 300Mbps stable transmitting rate for wireless users. With appropriate Power over Ethernet (POE) support, you only need to run one cable to the AP to deliver both data and power. Ceiling mounted design and POE technology make it couldn't be easier for family, enterprise, and hotel users to extend wireless networks indoors. Unique Watchdog technology makes AP working more stably and wireless network running normally for a long time.

Wireless AP and WDS working modes support wireless AP, wireless Repeater, wireless Point-to-Point (P2P) Bridge, and wireless Point-to-Multipoint (P2MP) Bridge functions. Firstly, it can be used as a wireless Hot Spot to enable the accesses of wireless users when in AP mode. Secondly, it can be used as a Bridge to connect two or more wired networks when it is in P2P or P2MP mode. Thirdly, it can also be used as a wireless Repeater to expand your wireless network coverage area.

Furthermore, 64/128-bit Wired Equivalent Privacy (WEP), WPA-PSK, WPA2-PSK, WPA&WPA2, 802.1X Authentication, and MAC Address filter are all supported to protect your data and privacy. Gigabit LAN port provides you higher LAN transmission rate. SNMP and Web-based management interface make configuration easier than ever.

1.1 Product Features

- Complies with the latest 802.11n and 802.11b/g standards
- Supports AP and WDS working modes
- Provides 300Mbps receiving and transmitting rate
- MIMO technology uses signal reflections to increase 8 times transmission distance of 802.11g standard and efficiently reduce “dead spots”
- One Gigabit Auto-negotiation LAN port supported for LAN connection
- POE and external power supported
- SNMP and Web-based management interface
- 64/128-bit WEP encryption
- WPA-PSK, WPA2-PSK, WPA&WPA2 encryption methods
- Auto MDI/ MDIX
- Wireless VLAN divisible for managing clients conveniently
- Client's access limited
- Watchdog designed to make device run stably
- Supports auto wireless channel selection
- Software controls the wireless signal on/ off and remotely controls the wireless coverage area.

1.2 Package Contents

Please unpack the package and find the following items:

- One W301A Wireless AP
- One Power Adapter

- Eight Screws
- One User Guide
- One Network Cable
- Four plastic covers

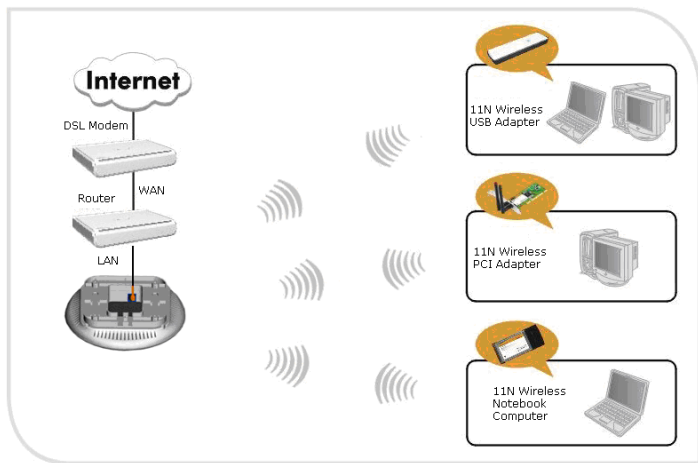
If any of listed items are missing or damaged, please contact the Tenda reseller from whom you purchased for replacement immediately.

Chapter 2 Product Installation

You are recommended to install the product after configuring the settings of W301A according to the guide in chapter 3. The following steps take AP mode for example.

1. Use the included power adapter to power on the AP. You can also use POE power supply or POE switch to power on the AP.
2. Connect one end of the network cable to the LAN port of W301A, and another end to your Ethernet broadband, switch or PC.
3. Connect wireless adapter to W301A.

Please refer to the topology below:



Chapter 3 Configuration Guide

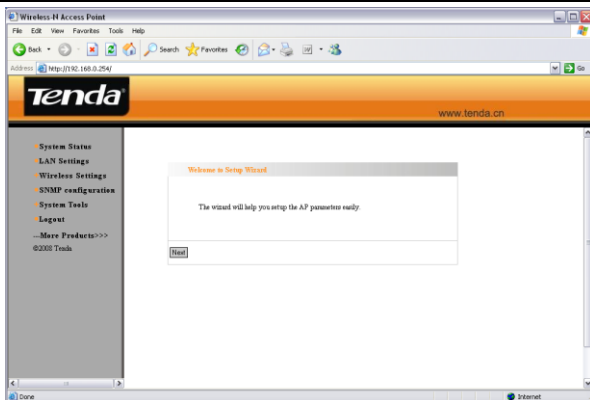
3.1 Web Login

Connect to W301A via wired cable and configure 192.168.0.x(x ranges 2-254) as your PC's IP address, and 255.255.255.0 as subnet mask. (Please refer to the Appendix II for details on TCP/IP setting)

Launch Internet Explorer. In the address bar, enter the AP's default IP address, 192.168.0.254. Press Enter key and the login screen will appear. Enter **admin** both in the user name and password field.



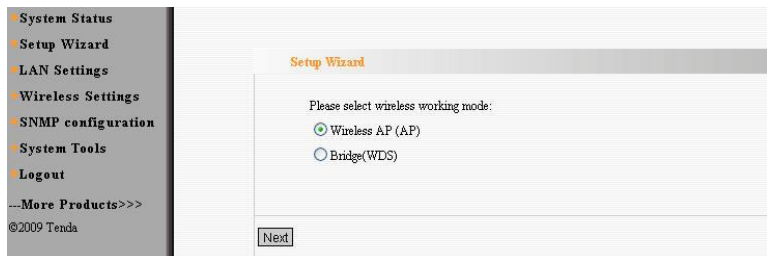
Click OK to enter the welcome page of the device.



You can select “Running Status”, “LAN Settings”, “Wireless Settings”, “SNMP Settings” and “System Tools” on the left menu. Click “Next” to enter the wireless working mode setup page. W301A supports two working modes: wireless AP (AP), Bridge (WDS). Select a working mode to configure the settings. For more details please refer to the following chapters.

3.2 Setup Wizard

Click “Next” in the first page and the next page appears.



On this page, you can select wireless AP or Bridge to adapt different wireless access environment.

3.3 Wireless Access Point (AP) Mode

Select “Wireless Access Point (AP)” and then click “Next” to enter the basic settings.

The screenshot displays the configuration interface for a Tenda wireless access point. On the left is a navigation menu with the following items: System Status, Setup Wizard, LAN Settings, Wireless Settings, SNMP configuration, System Tools, and Logout. Below the menu is a link for “More Products>>>” and a copyright notice “©2009 Tenda”. The main content area is titled “Basic Settings” and shows the “Working Mode: AP” configuration. The settings are as follows:

Setting	Value
Working Mode	AP
Wireless Mode	11b/g/n mixed mode
SSID	Tenda
Broadcast(SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
BSSID	00:B0:C6:05:4E:D0
WLAN Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Channel	6
Operation Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Channel Bandwidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Guard Interval	<input type="radio"/> long <input checked="" type="radio"/> Auto
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Extension Channel	2457MHz (Channel 10)
Aggregation MSDU	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

At the bottom of the configuration area are “Back” and “Next” buttons.

Picture 4

Fill in the following items according to the reminder information.

1. **SSID:** Set the SSID name of the device.
2. **Channel:** Select the wireless communication channel. The default is channel 6.

After you finish the settings, click “Next” to enter the “Security Settings” page as the picture below:

System Status

Setup Wizard

LAN Settings

Wireless Settings

- Basic Settings
- Security Settings
- Advanced Settings
- Access Control
- Connection Status

SNMP configuration

System Tools

Logout

---More Products>>>

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Wireless Security Setting

AP Security Settings

SSID -- "Tenda"

AP Security Mode

Default Key

WEP Key1

WEP Key2

WEP Key3

WEP Key4

Note : AP Security Setting
802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.

“Security Settings” is used to encrypt the settings for AP and authorize the wireless client to access the AP for security in wireless network. Please refer to chapter 4.1.1.2 for detailed security setting specifications.

After finishing the settings, click “Next” to finish settings as the picture below.

System Status

Setup Wizard

LAN Settings

Wireless Settings

SNMP configuration

System Tools

Logout

---More Products>>>

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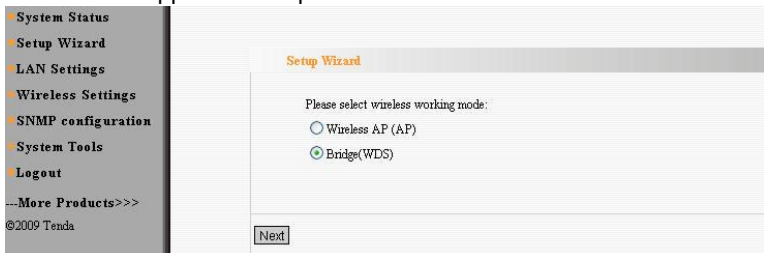
Setup Wizard

You have set the parameters of multifunctional wireless AP successfully. Click "Save" to save and enable settings.

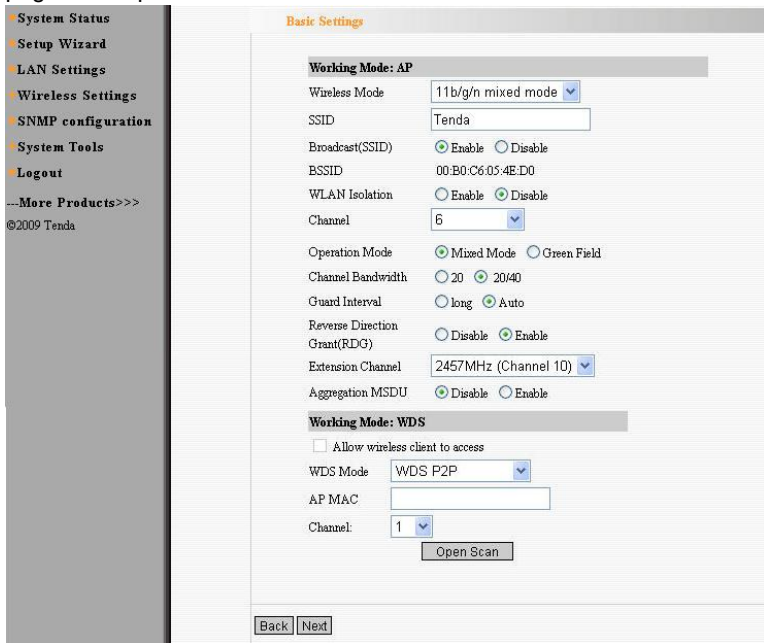
If you want to configure more, please select other menu.

3.4 Bridge (WDS) Mode

Select “Setup Wizard” on the left menu and the working mode selection interface will appear as the picture below.



Select Bridge (WDS) and then click “Next”. You will enter the WDS setup page as the picture below.



Bridge (WDS) working mode includes: Point to Point Bridge (WDS P2P),

Point to Multipoint Bridge (WDS P2MP), Wireless Repeater (Repeater). Users can select the mode according to need. Please refer to Chapter 4.1.2 for detailed introduction.

Click “Enable Scan”. AP will scan the available wireless device nearby automatically and display them under the list (see the picture below). Select the AP which you need to bridge and click “Next” to enter the security setup interface. On the other hand, you can input the MAC address of wireless device which you want to bridge manually and select the corresponding channel.

- System Status
- Setup Wizard
- LAN Settings
- Wireless Settings
- SNMP configuration
- System Tools
- Logout
- More Products>>>
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Basic Settings

Working Mode: AP

Wireless Mode: 11b/g/n mixed mode ▾

SSID: Tenda

Broadcast(SSID): Enable Disable

BSSID: 00-B0-C6-05-4E-D0

WLAN Isolation: Enable Disable

Channel: 6 ▾

Operation Mode: Mixed Mode Green Field

Channel Bandwidth: 20 20/40

Guard Interval: long Auto

Reverse Direction Grant(RDG): Disable Enable

Extension Channel: 2457MHz (Channel 10) ▾

Aggregation MSDU: Disable Enable

Working Mode: WDS

Allow wireless client to access

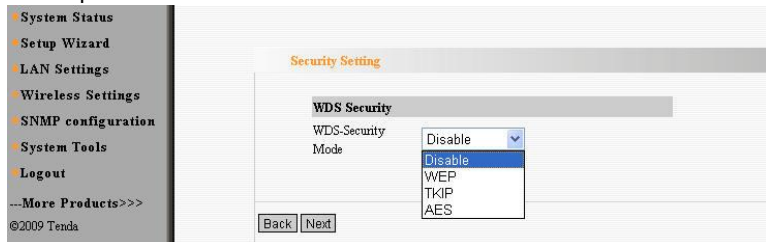
WDS Mode: WDS P2P ▾

AP MAC:

Channel: 1 ▾

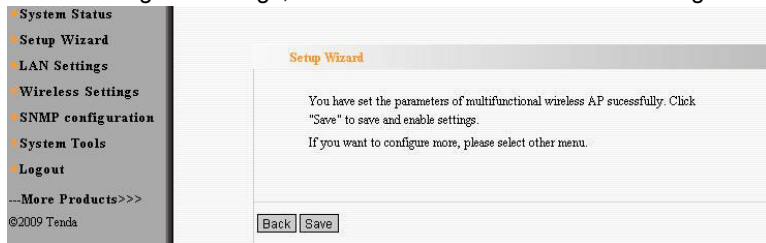
Select	SSID	MAC Address	Channel	Security	Signal
<input type="radio"/>	Tenda_3003E0	00:b0:0c:30:03:e0	1	WPAPSK/AES	100
<input type="radio"/>	Tenda	00:b0:8c:01:01:f4	6	NONE	29
<input type="radio"/>	Tenda000	e8:3a:53:a7:3c:2c	13	NONE	99

After finish the settings, click “Next” to enter the “Security Setting” option as the picture below.



“WDS Security Setting” is used to encrypt the AP and authorize the device to establish bridge. Only when the passwords of the devices in bridge are consistent, the communication can get through normally.

After finishing the settings, click “Next” and “Save” to finish settings.



3.5 Running Status

This page shows the wireless AP's current status, including wireless status, LAN status and system information.

System Status
Setup Wizard
LAN Settings
Wireless Settings
SNMP configuration
System Tools
Logout
--More Products>>>
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Wireless status

Working mode	AP
Wireless mode	11b/g/n mixed mode
Main SSID	Tenda
Security Mode	Disable
Channel	6

LAN interface information

Ethernet IP method	Static IP
MAC Address	00:B0:C6:05:4E:D0
IP Address	192.168.0.254
Subnet mask	255.255.255.0
Default gateway	192.168.0.1

System information

Software version	3.3.4f
Hardware version	2.0
Run time	00:00:05:04
System time	2007-03-29 Thu 09:53:07

- **Wireless Status**

It shows the current working status, including working mode, wireless network mode, SSID, Channel, Encryption mode, etc.

- **LAN Interface information**

It shows LAN IP obtain way, MAC address, IP address, subnet mask, etc.

- **System information**

It shows the device's current software version, hardware version, etc.

3.6 LAN Settings

This section mainly deals with LAN's basic settings.

LAN Settings

You could configure LAN interface information here.

MAC Address 00:B0:C6:05:4E:D0

IP Method

IP Address

Subnet Mask

Default Gateway

Primary DNS Server

Secondary DNS Server

Host name (Optional)

- ✧ **Static IP:** The default IP address is 192.168.0.254. If necessary, you can configure a new IP address, subnet mask and gateway manually for the device.
- ✧ **Dynamic IP:** Automatically obtain IP address, subnet mask and gateway from DHCP server. (Unless you have got permission to obtain this information from the uplink connected device, otherwise, it is not recommended to select this way).

Note: If the LAN IP address is changed, you need use the new IP address to login the wireless AP's Web interface next time.

Chapter 4 Wireless Settings

This chapter introduces you wireless settings in two working modes: Access Point (AP) and Bridge (WDS), including basic settings, security settings, advanced settings, access control, and connection status.

4.1 Basic Settings

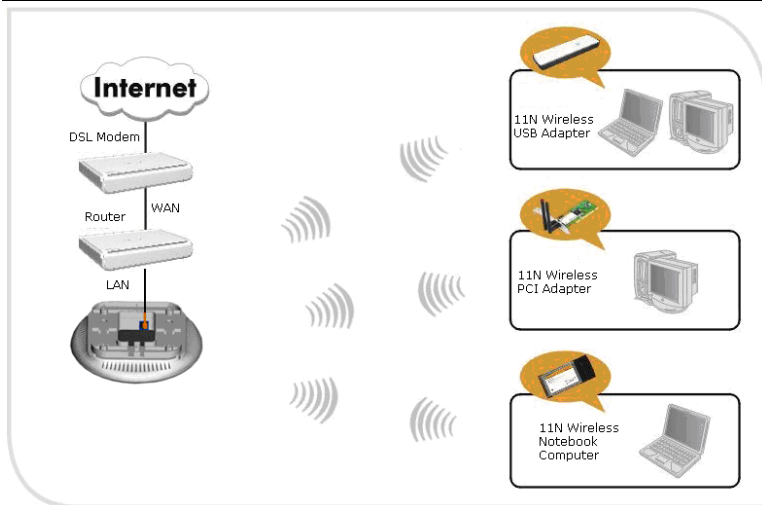
This period introduces you the basic settings in AP mode and WDS mode.

4.1.1 Access Point (AP) Mode

In this mode, the AP will act as a central hub for accesses from wireless to wireless, wireless to wired, wireless to WAN. The most important is to provide a wireless client access such as wireless network adapter access.

4.1.1.1 Application and Topology Plan

The AP mode can convert the wired transmission into wireless signals. If you have one wired cable connecting to Internet, and want to access the Internet via wireless signals connecting to your notebook computer, this mode fits perfectly.



4.1.1.2 Function Explanation

The basic setup page in Access Point (AP) working mode is as follows:

System Status

Setup Wizard

LAN Settings

Wireless Settings

- Basic Settings
- Security Settings
- Advanced Settings
- Access Control
- Connection Status
- SNMP configuration

System Tools

Logout

---More Products>>>

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Wireless Basic Settings

Working Mode: AP

Wireless Enable

Wireless Mode

SSID

Broadcast(SSID) Enable Disable

BSSID 00:B0:C6:05:4E:D0

WLAN Isolation Enable Disable

Channel

Operation Mode Mixed Mode Green Field

Channel Bandwidth 20 20/40

Guard Interval long Auto

Reverse Direction Grant(RDG) Disable Enable

Extension Channel

Aggregation MSDU Disable Enable

- ❖ **Wireless Signal:** Click “Disable” to shut all the wireless feature of this AP; click “Enable” to open the wireless feature.
- ❖ **Network Mode:** Select one mode from the following. The default is 11b/g/n mode.
- ❖ **11b mode:** Allow the wireless client to connect with the device in 11b mode at the maximum speed of 11Mbps.
- ❖ **11g mode:** Allow the 11g/11n-compliant client device to connect with the AP at the maximum speed of 54Mbps.
- ❖ **11b/g mode:** Allow the 11b/g-compliant client device to connect with the AP with auto-negotiation speed, and 11n wireless client to connect the device with 11g speed.
- ❖ **11b/g/n mode:** Allow 11b/g/n-compliant client device to connect with the AP with auto- negotiation speed. The maximum speed is

300Mbps.

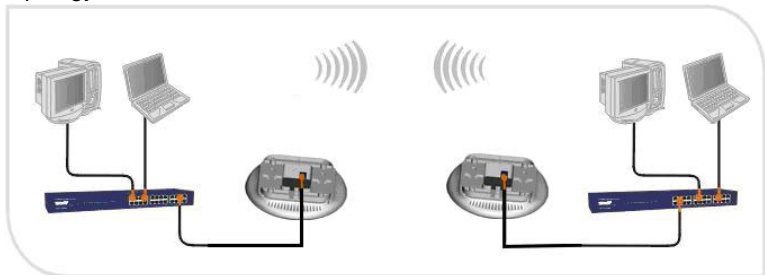
- ✧ **Main SSID:** SSID (Service Set Identifier) is the unique name of the wireless network. It is recommended to modify this name for wireless client to recognize wireless signals.
- ✧ **Broadcast SSID:** When you select “Disable SSID broadcast”, AP will not broadcast its own SSID number. If there is a wireless connection request, you need to input SSID number manually.
- ✧ **BSSID :** Basic Service Set Identifier of wireless network. In IEEE802.11, BSSID is the MAC address of wireless access point.
- ✧ **WLAN Isolation:** The access control feature based on wireless MAC address. When this feature is enabled, each of your wireless clients will be in its own virtual network and will not be able to communicate with each other. This feature is to isolate the communication of wireless clients connected with different AP.
- ✧ **Channel:** Specify the effective channel (from 1 to 13\Auto) of the wireless network.
- ✧ **Extension channel :** To increase data throughput of wireless network, the extension channel range is used in 11n mode.
- ✧ **Channel Bandwidth:** Select the proper channel bandwidth to improve the wireless performance. 20M bandwidth can improve the anti-jamming ability of the wireless device. 40M bandwidth can improve the flux of 11N client.

4.1.2 Bridge (WDS) Mode

Bridge (WDS) mode includes P2P, P2MP, Wireless Repeater.

4.1.2.1 Point to Point Bridge

P2P bridge mode can connect with two wired network via wireless access points, which communicate by wireless signals and not by cables. This mode can be free from the cable trouble. The P2P topology shows below



Select P2P Bridge in drop-down list of WDS mode as the picture below:

System Status

Setup Wizard

LAN Settings

Wireless Settings

Basic Settings

Security Settings

Advanced Settings

Access Control

Connection Status

SNMP configuration

System Tools

Log out

---More Products>>>

©2009 Tenda

Wireless Basic Settings

Working Mode: AP

Wireless Enable

Wireless Mode

SSID

Broadcast(SSID) Enable Disable

BSSID 00-B0-C6-05-4E-D0

WLAN Isolation Enable Disable

Channel

Operation Mode Mixed Mode Green Field

Channel Bandwidth 20 20/40

Guard Interval long Auto

Reverse Direction Grant(RDG) Disable Enable

Extension Channel

Aggregation MSDU Disable Enable

Working Mode: WDS

Allow wireless client to access.

WDS Mode

AP MAC

Channel:

This page includes the AP and WDS parameter setting. AP parameter setting can change SSID and enable/ disable wireless feature.

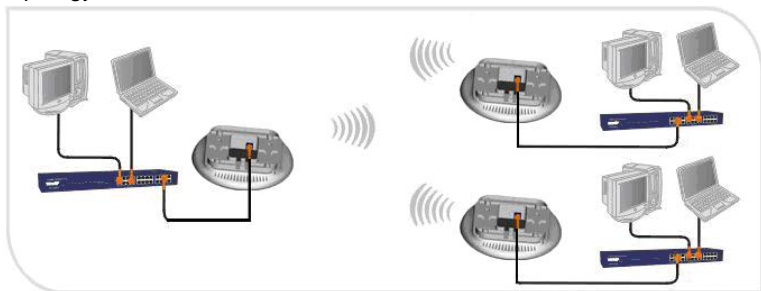
- ◇ **AP MAC:** Enter the interconnection equipment's MAC address.
- ◇ **Channel:** Select the channel according to interconnection equipment's; the devices on the two ends must be at the same channel.
- ◇ **Open Scan:** Click this button, the AP will scan the nearby wireless devices automatically and display the information in

the table. Select the device which need to bridge, the AP will add the device's MAC address automatically and select the corresponding channel.

4.1.2.2 P2MP Bridge Mode

The P2MP Bridge Mode which connects scattered wired network together is more complicated than P2P Bridge mode. P2MP usually transmit wireless signals from one access point, and other access points are in charge of receiving signals so as to share network resource. Support up to 4 remote access point connection. In this mode, wireless clients are not allowed to connect.

P2MP Bridge mode can connect multiple wireless access point together without cabling. If "Root AP" is configured as P2MP bridge mode, other (less than 4) remote access points should select P2P bridge modes. The topology shows below:



Select WDS P2MP mode in the drop-down box of WDS mode as the picture below.

System Status

Setup Wizard

LAN Settings

Wireless Settings

 Basic Settings

 Security Settings

 Advanced Settings

 Access Control

 Connection Status

SNMP configuration

System Tools

Logout

---More Products>>>

©2009 Tenda

Wireless Basic Settings

Working Mode: AP

Wireless Enable

Wireless Mode

SSID

Broadcast(SSID) Enable Disable

BSSID 00:B0:C6:05:4E:D0

WLAN Isolation Enable Disable

Channel

Operation Mode Mixed Mode Green Field

Channel Bandwidth 20 20/40

Guard Interval long Auto

Reverse Direction Disable Enable

Grant(RDG)

Extension Channel

Aggregation MSDU Disable Enable

Working Mode: WDS

Allow wireless client to access.

WDS Mode

AP MAC

AP MAC

AP MAC

AP MAC

Channel:

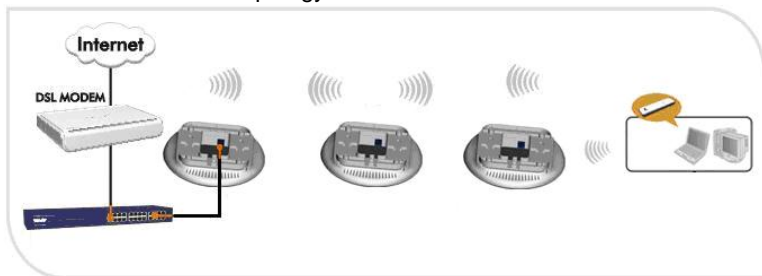
- ❖ **AP MAC Address:** Input the remote AP's MAC address. (No more than 4)
- ❖ **Channel:** Select the channel which bridge needs to use. (All APs in the bridge must be at the same channel.)
- ❖ **Enable Scan:** Click this button, the AP will scan the nearby wireless devices automatically and display the information in the table. Select the device which need to bridge, the AP will add the device's MAC address automatically and select the corresponding channel. When multiple devices are added, AP will select the

channel of the last added device as the bridge used channel (You can also change the channel according to your need. All the devices must at the same channel, thus the bridge can be established.)

4.1.2.3 Wireless Repeater Mode

Repeater Mode can repeat and amplify wireless signals to extend wireless network coverage. In this mode, wireless clients are allowed to connect.

When two LAN's transmission distance is over the wireless device's maximum transmission value, or there is much block among devices, you can use the Repeater mode to deal with these problems by adding MAC addresses. The topology shows below:



Select wireless repeater on the drop-down box of WDS mode and the page will show as below.

System Status

Setup Wizard

LAN Settings

Wireless Settings

Basic Settings

Security Settings

Advanced Settings

Access Control

Connection Status

SNMP configuration

System Tools

Logout

---More Products>>>

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Wireless Basic Settings

Working Mode: AP

Wireless Enable

Wireless Mode

SSID

Broadcast(SSID) Enable Disable

BSSID 00:B0:C6:05:4E:D0

WLAN Isolation Enable Disable

Channel

Operation Mode Mixed Mode Green Field

Channel Bandwidth 20 20/40

Guard Interval long Auto

Reverse Direction Disable Enable

Grant(RDG)

Extension Channel

Aggregation MSDU Disable Enable

Working Mode: WDS

Allow wireless client to access.

WDS Mode

AP MAC

AP MAC

AP MAC

AP MAC

Channel:

When the users select “permit wireless client to access”, AP can also be used as “Wireless Access Point” to allow the access of wireless client when it is used as a wireless bridge. The basic settings of wireless repeater are divided into two parts: one part is the basic setting in AP mode (See 4.1.1.2); another part is the basic setting in WDS mode (See 4.1.2.2).

4.2 Security Settings

It is used to configure the AP network's security setting, including AP security setting and WDS security setting.

4.2.1 AP Security Setting

We introduce six common encryption modes to you (support ten encryption modes), including Mixed WEP encryption, WPA-PSK, WPA-Enterprise, WPA2-PSK, WPA2-Enterprise, etc.

Mixed WEP

WEP (Wired Equivalent Privacy), a basic encryption method, usually encrypts wireless data using a series of digital keys (64 bits or 128 bits in length). By using the same keys on each of your wireless network devices, you can prevent unauthorized wireless devices from monitoring your transmissions or using your wireless resources. WEP is based on RSA algorithm from RC4. It is the original and weak encryption method, so it is recommended not to use this method. Select Mixed WEP to enter the following window:

The screenshot shows the 'Wireless Security Setting' page in the Tenda AP web interface. On the left is a navigation menu with options like System Status, Setup Wizard, LAN Settings, Wireless Settings, Basic Settings, Security Settings, Advanced Settings, Access Control, Connection Status, SNMP configuration, System Tools, Logout, and More Products. The main content area is titled 'Wireless Security Setting' and contains 'AP Security Settings'. The SSID is 'Tenda'. The AP-Security Mode is set to 'WEP Mixed Mode'. The Default Key is 'Key 1'. There are four WEP Key fields, each containing '12345' and a dropdown menu set to 'ASCII'. A note at the bottom states: 'Note : AP Security Setting 802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.' At the bottom are 'Apply' and 'Cancel' buttons.

Field	Value	Dropdown
SSID	Tenda	
AP-Security Mode	WEP Mixed Mode	
Default Key	Key 1	
WEP Key1	12345	ASCII
WEP Key2	12345	ASCII
WEP Key3	12345	ASCII
WEP Key4	12345	ASCII

Note : AP Security Setting
802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.

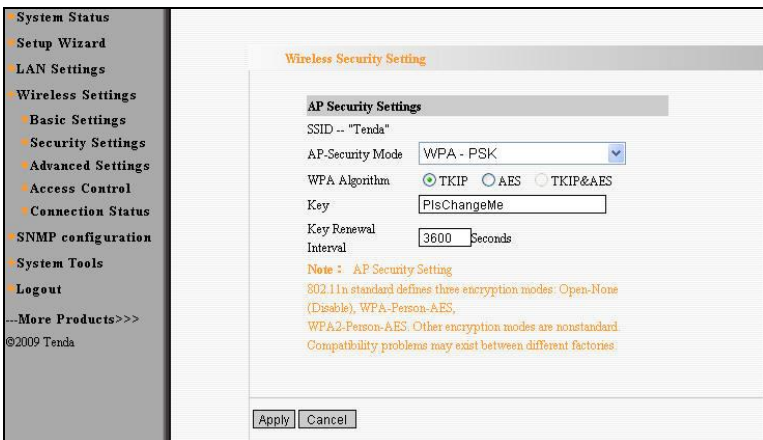
Apply Cancel

Setting Explanation

- ✧ **Security Mode:** From the drop-down menu select the corresponding security encryption modes.
- ✧ **WEP Key1~4:** Set the WEP key with the format of ASCII and Hex. You can enter ASCII code (5 or 13 ASCII characters. Illegal character as “/” is not allowed.) Or 10/26 hex characters.
- ✧ **Default Key:** Select one key from the four configured keys as the current available one.

WPA- PSK

WPA (Wi-Fi Protected Access), a Wi-Fi standard, is a more recent wireless encryption scheme, designed to improve the security features of WEP. Select “WPA-PSK” from the drop-down menu to enter the following window:



Setting Explanation

- ✧ **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard]. The default is TKIP mode.
- ✧ **Pass Phrase:** Enter the encrypted characters with 8-63 ASCII characters.
- ✧ **Key Renewal Interval:** Set the key's renewal period.

WPA2-PSK

WPA2 provides more secure features than WEP and WPA. Select "WPA2-PSK" from the drop-down menu to enter the following window:

The screenshot shows the configuration interface for the wireless security settings. On the left is a navigation menu with options like System Status, Setup Wizard, LAN Settings, Wireless Settings, Basic Settings, Security Settings, Advanced Settings, Access Control, Connection Status, SNMP configuration, System Tools, Logout, and More Products. The main content area is titled "Wireless Security Setting" and contains the "AP Security Settings" section. The SSID is set to "Tenda". The AP Security Mode is set to "WPA2 - PSK". The WPA Algorithm is set to "TKIP" (indicated by a selected radio button). The Key is "PlsChangeMe". The Key Renewal Interval is set to "3600" seconds. A note at the bottom states: "Note : AP Security Setting 802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories." At the bottom of the form are "Apply" and "Cancel" buttons.

Setting Explanation

- ✧ **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption

Standard]. The default is TKIP mode.

- ✧ **Pass Phrase:** Enter the encrypted characters with 8-63 ASCII characters.
- ✧ **Key renewal Interval:** Set the key's renewal period.

WPA

This security mode is used when a RADIUS server is connected to the device. Select "WPA" from the drop-down menu to enter the following window:

System Status
Setup Wizard
LAN Settings
Wireless Settings
 Basic Settings
 Security Settings
 Advanced Settings
 Access Control
 Connection Status
SNMP configuration
System Tools
Logout
---More Products>>>
©2009 Tenda

Wireless Security Setting

AP Security Settings

SSID -- "Tenda"

AP-Security Mode

WPA Algorithm TKIP AES TKIP&AES

Key Renewal Interval Seconds

RADIUS Server Address

RADIUS Server Port

Shared Key

Session timed out

Note : AP Security Setting
802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.

Setting Explanation

- ✧ **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard]. The default is TKIP mode.
- ✧ **Pass Phrase:** Enter the encrypted characters with

8-63 ASCII characters.

- ✧ **Key Renewal Interval:** Set the key's renewal period.
- ✧ **Radius Server:** Enter the IP address of the Radius server.
- ✧ **Radius Server port:** Enter the authentication port of the Radius server. The default is 1812.
- ✧ **Shared Secret:** Enter the shared key for authentication server with 8~63 ASCII characters.
- ✧ **Session Timeout:** The authentication interval period between AP and authentication server. The default is 3600s.

WPA2

This security mode is based on Radius authentication server and WPA2 encryption method. WPA2 is used when a RADIUS server is connected to the device. Select "WPA2" from the drop-down menu to enter the following window:

<ul style="list-style-type: none"> System Status Setup Wizard LAN Settings Wireless Settings <ul style="list-style-type: none"> Basic Settings Security Settings Advanced Settings Access Control Connection Status SNMP configuration System Tools Logout More Products>>> <p>©2009 Tenda</p>	<div style="text-align: center; background-color: #f0f0f0; border: 1px solid #ccc; padding: 5px;">Wireless Security Setting</div> <div style="border: 1px solid #ccc; padding: 10px; margin-top: 5px;"> <div style="background-color: #f0f0f0; border: 1px solid #ccc; padding: 2px; margin-bottom: 5px;">AP Security Settings</div> <p>SSID -- "Tenda"</p> <p>AP-Security Mode WPA2 - Enterprise</p> <p>WPA Algorithm <input checked="" type="radio"/> TKIP <input type="radio"/> AES <input type="radio"/> TKIP&AES</p> <p>Key Renewal Interval 3600 Seconds</p> <p>PMK Cache Period 10 Minutes</p> <p>Preauthentication <input type="radio"/> Off <input checked="" type="radio"/> On</p> <p>RADIUS Server Address 192.168.0.100</p> <p>RADIUS Server Port 1812</p> <p>Shared Key PlsChangeMe</p> <p>Session timed out 3600</p> <p style="font-size: small; color: #e67e22;">Note : AP Security Setting 802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.</p> <div style="text-align: right; margin-top: 10px;"> Apply Cancel </div> </div>
---	--

Setting Explanation

- ✧ **WPA Algorithms:** Provides TKIP [Temporal Key Integrity Protocol] or AES [Advanced Encryption Standard]. The default is TKIP mode.
- ✧ **Pass Phrase:** Enter the encrypted characters with 8-63 ASCII characters.
- ✧ **Key Renewal Interval:** Set the key's renewal period.
- ✧ **Radius Server:** Enter the IP address of the Radius server.
- ✧ **Radius Server Port:** Enter the authentication port of the Radius server. The default is 1812.
- ✧ **Shared Key:** Enter the shared key for authentication server with 8~63 ASCII characters.
- ✧ **Session Timeout:** The authentication interval period

between AP and authentication server. The default is 3600s.

802.1x Authentication

This security mode is used when a RADIUS server is connected to the device. 802.1x, a kind of Port-based authentication protocol, is an authentication type and strategy for users. The port can be either a physic port or logic port (such as VLAN). For wireless LAN users, a port is just a channel. The final purpose of 802.11x authentication is to check if the port can be used. If the port is authenticated successfully, you can open this port which allows all the messages to pass. If the port isn't authenticated successfully, you can keep this port "disable" which just allows 802.1x authentication protocol message to pass. Select "802.1x" from the drop-down menu to enter the following window:

The screenshot displays the 'Wireless Security Setting' configuration page. On the left is a navigation menu with the following items: System Status, Setup Wizard, LAN Settings, Wireless Settings (selected), Basic Settings, Security Settings, Advanced Settings, Access Control, Connection Status, SNMP configuration, System Tools, and Logout. Below the menu are links for '---More Products>>' and '©2009 Tenda'. The main content area is titled 'Wireless Security Setting' and contains the following fields:

- AP Security Settings (Section Header)
- SSID -- "Tenda"
- AP-Security Mode: 802.1X (dropdown menu)
- WEP: Off On
- RADIUS Server Address: 192.168.0.100
- RADIUS Server Port: 1812
- Shared Key: PlsChangeMe
- Session timed out: 3600

Below the fields is a 'Note' section:

Note : AP Security Setting
802.11a standard defines three encryption modes: Open-None (Disable), WPA-Person-AES,
WPA2-Person-AES. Other encryption modes are nonstandard.
Compatibility problems may exist between different factories.

At the bottom of the form are 'Apply' and 'Cancel' buttons.

Setting Explanation

- ✧ **802.1x WEP :** Click "Enable/Disable" to enable or disable the WEP algorithm.

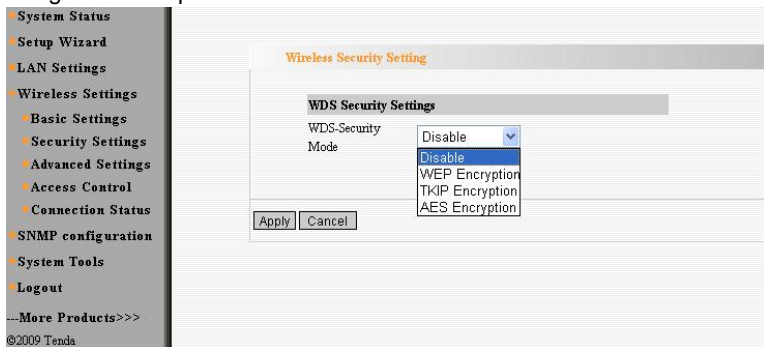
- ✧ **Radius Server:** Enter the IP address of the Radius server.
- ✧ **Radius Server Port:** Enter the authentication port of the Radius server. The default is 1812.
- ✧ **Shared Secret:** Enter the shared key for authentication server with 8~63 ASCII characters.
- ✧ **Session Timeout:** The authentication interval period between AP and authentication server. The default is 3600s.

Note: To improve security level, do not use too easy characters.

4.2.2 WDS Security Setting

WDS Security Setting is to protect the data safety of wireless bridge.

The security setup page of Point to Point Bridge and Point to Multipoint Bridge is as the picture below.



WDS security setting provides three encryption modes: WEP encryption, TKIP encryption and AES encryption.

- ✧ **WEP Key:** You can set the WEP key in ASCII code or

Hexadecimal code.

- ❖ **Key:** You can choose ASCII code (5 or 13 ASCII codes, illegal characters like “/” are forbidden) or Hexadecimal characters (10 or 26 Hexadecimal characters).
- ❖ **TKIP/ AES Key:** TKIP/AES is an encryption mode based on WPA and WPA2.
- ❖ **Key:** Key characters are ASCII codes from 8 to 63.

Note: The encryption mode and password of each device in the bridge must be consistent, thus the connection can be established. You are recommended to encrypt the bridge to protect the wireless bridge.

The security setup page of wireless repeater is as follows:

Wireless Security Setting

AP Security Settings

SSID -- "Tenda"

AP-Security Mode

WPA Algorithm TKIP AES TKIP&AES

Key

Key Renewal Interval Seconds

Note : AP Security Setting
802.11n standard defines three encryption modes: Open-None (Disable), WPA-Person-AES, WPA2-Person-AES. Other encryption modes are nonstandard. Compatibility problems may exist between different factories.

WDS Security Settings

WDS-Security Mode

Encryption Key

Security setting of wireless repeater can be divided into AP security

setting and WDS security setting. AP security setting focuses on wireless client access, while WDS security setting focuses on wireless bridge connection. AP security setting appears only when wireless client accesses are permitted in wireless repeater mode. Please refer to Chapter 4.2.1 for AP security setup.

4.3 Advanced Settings

This section mainly deals with wireless advanced settings, including Speed, Beacon Interval, Fragment Threshold, etc. Select “Wireless Setting->Advanced Setting” to enter the following screen:

Advanced Settings

BG Protection Mode	Auto
Basic Data Rates	Default(1-2-5-5-11 Mbps)
Beacon Interval	100 ms (range 20 - 999, default 100)
Fragment Threshold	2346 (range 256 - 2346, default 2346)
RTS Threshold	2347 (range 1 - 2347, default 2347)
TX Power	100 (range 1 - 100, default 100)
<hr/>	
WMM Capable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
APSD Capable	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
<hr/>	
The limited of client	10 (range 0 - 20, default 10)
Wireless LED	<input checked="" type="radio"/> On <input type="radio"/> Off

Apply Cancel

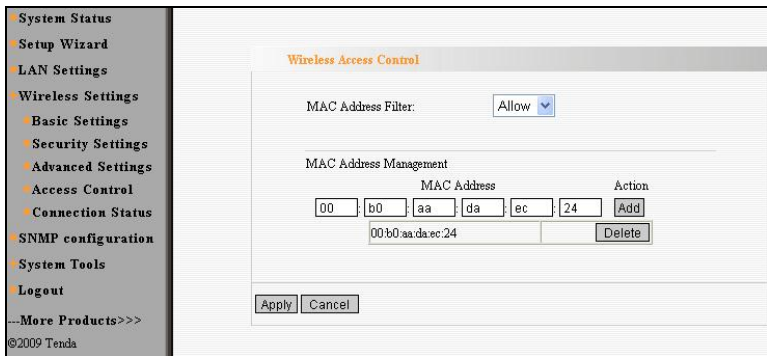
Setting Explanation:

- ❖ **BG Protection Mode:** For 11b/g wireless client, it is easier to connect with 11n wireless device. The default is “Auto”.
- ❖ **Basic Data Rates:** In term of different requirements, you can select one of the suitable Basic Data Rates from the drop-down menu. Here, default value is (1-2-5-5-11Mbps...). It is recommended not to modify the default value.
- ❖ **Beacon Interval:** The frequency interval of the beacon, which is a packet broadcast by an AP to synchronize a wireless network. The default value is 100 ms.

- ✧ **Fragment Threshold:** The fragmentation threshold defines the maximum transmission packet size in bytes. The packet will be fragmented if the arrival is bigger than the threshold setting. The default size is 2346 bytes.
- ✧ **RTS Threshold :** RTS stands for “Request to send”. This parameter controls what size data packet the frequency protocol issues to RTS packet. If the device works in SOHO, do not modify the default value.
- ✧ **TX Power:** Set the wireless output power level. The default value is 100.
- ✧ **WMM Capable:** To enhance wireless multimedia transfer performance (On-line video and voice). If you are not clear about this, enable it.
- ✧ **APSD Capable:** It is used for auto power-saved service. The default is disabled.

4.4 Access Control

To secure your wireless LAN, the wireless access control is actually based on the MAC address management. Select “Wireless Setting->Access Control” to display the following screen:



Setting Explanation:

- ❖ **MAC Address Filter:** Enable/disable MAC address filter. Select “Close” to malfunction MAC address; “disable” to prevent the MAC addresses in the list from accessing the wireless network; “Allow” to allow the MAC address in the list to access the wireless network.
- ❖ **MAC Address Management:** Input the MAC address to implement the filter policy. Click “Add” to finish the MAC add operation.
- ❖ **MAC list:** Show the added MAC address. You can add or delete them.

Note: This AP can support no more than 32 MAC addresses.

4.5 Connection Status

This page shows wireless client's connection status, including MAC address, Channel bandwidth, etc. Select "Wireless Setting->connection status" to enter the following screen:

The Current Wireless Access List:

NO.	MAC Address	Bandwidth
0	00:B0:8C:07:19:AF	40M

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Setting Explanation:

MAC Address: Shows current connecting host's MAC address.

Bandwidth: Shows current connecting host's (wireless client) bandwidth (20MHz or 40MHz).

Chapter 5 SNMP Setting

5.1 SNMP Introduction

Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is widely used in local area networks (LAN) for collecting information, and managing and monitoring, network devices, such as servers, printers, hubs, switches, and routers from a management host. Managed devices that support SNMP including software are referred to as an SNMP agent, which usually interacts with third-party SNMP management software to enable the sharing of network status information between monitored devices and applications and the SNMP management system. A defined collection of variables (managed objects) are maintained by the SNMP agent and used to manage the device. These objects are defined in a Management Information Base (MIB), which provides a standard presentation of the information controlled by the on-board SNMP agent. SNMP defines both the format of the MIB specifications and the protocol used to access this information over the network.

5.2 SNMP Setting

This device supports SNMP v1 and SNMP v2c. Please click “SNMP Setting” in the left page to enter the following window:

System Status
Setup Wizard
LAN Settings
Wireless Settings
SNMP configuration
System Tools
Logout
More Products>>>
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SNMP configuration

You could configure SNMP v1&v2 parameters here.

Disable Enable

Contact

Device name

Location

Read Community

R/W Community

Apply Cancel

Click “enable” or “disable” to enable and disable SNMP management.

Setting Explanation:

- ✧ **Contact:** Set the name to access the AP. Usually set the administrator's name.
- ✧ **Device Name:** Set the AP's name, such as Tenda_300A.
- ✧ **Location:** Set the AP's network location.
- ✧ **Read Community:** Indicates the community read access string to permit reading this AP's SNMP information. The default is Public.
- ✧ **Read/Write Community:** Indicates the community read/write access string to permit reading and re-writing this AP's SNMP information. The default is Private.

Chapter 6 System Tools

This section focuses on how to maintain AP, including Restore to Factory Default Setting, Backup/Restore, Firmware Upgrade, Reboot, Password Change, Syslog.

6.1 Password Change

This section is to set a new user name and password to better secure your device and network. Click “Apply” to finish changing password.

System Tools

- Setup Wizard
- LAN Settings
- Wireless Settings
- SNMP configuration
- System Tools
 - Change Password**
 - Restore to Factory
 - Backup/Restore
 - Time Settings
 - Reboot
 - Upgrade
 - System Log
- Logout
- More Products>>>

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Change Password

Note: User Name and Password makeup only by number or/and letter.

User Name

Old Password

New Password

Re-enter to Confirm

- ✧ **User Name:** Enter a new user name for the device.
- ✧ **Old Password:** Enter the old password.
- ✧ **New Password:** Enter a new password.
- ✧ **Re-enter to Confirm:** Re-enter to confirm the new password.

NOTE: It is highly recommended to change the password to secure your network and the device.

6.2 Restore to Factory

This button is to reset all configurations to the default values. It means the device will lose all the settings you have set.

Restore: Click this button to restore to default settings.

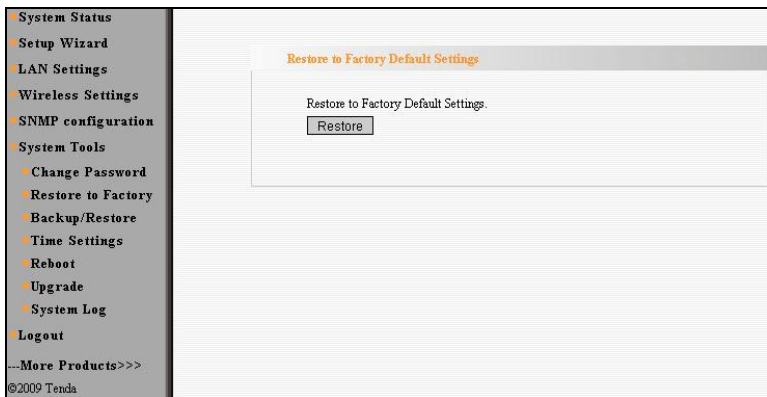
Factory Default Settings:

User Name: admin

Password: admin

IP Address: 192.168.0.254

Subnet Mask: 255.255.255.0



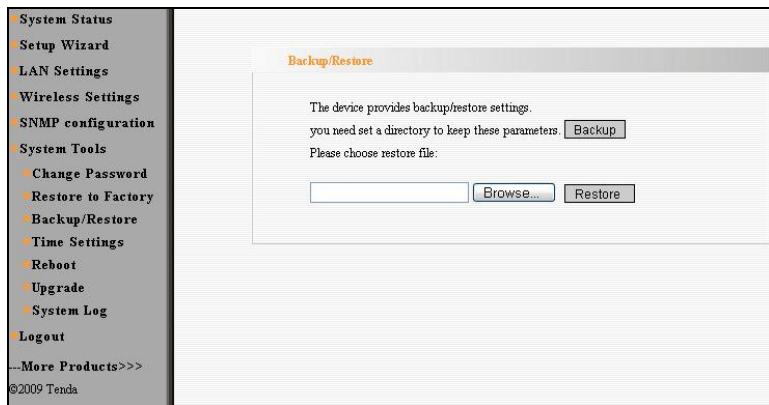
6.3 Backup/Restore

The device provides backup/restore settings, so you need set a directory to keep these settings.

Backup: Click this button to back up the device's configurations.

Browse: Click this button to browse the directory where you backup or save the device's settings.

Restore: Click this button to restore the device's configurations.



6.4 Time Settings

This section is to select the time zone for your location. You can select your own time or obtain the standard GMT time from Internet.

The screenshot shows the configuration interface for a Tenda 300Mbps Wireless Access Point. On the left is a navigation menu with the following items: System Status, Setup Wizard, LAN Settings, Wireless Settings, SNMP configuration, System Tools (with sub-items: Change Password, Restore to Factory, Backup/Restore, Time Settings, Reboot, Upgrade, System Log), Logout, and --More Products>>>. Below the menu is the copyright notice ©2009 Tenda.

The main content area is titled "Time Settings" and contains the following fields and controls:

- Time Zone:** A dropdown menu currently showing "(GMT+08:00)Beijing,China, Hong Kong,Singapore, Taipei". Below it is a note: "(Notice: GMT time can be obtained only after accessing to the Internet.)"
- Customized time:** A checkbox that is checked. Below it are input fields for time: Year (2009), Month (10), Day (15), Hour (10), Minute (56), and Second (12).
- Buttons:** "Apply" and "Cancel" buttons at the bottom of the form.

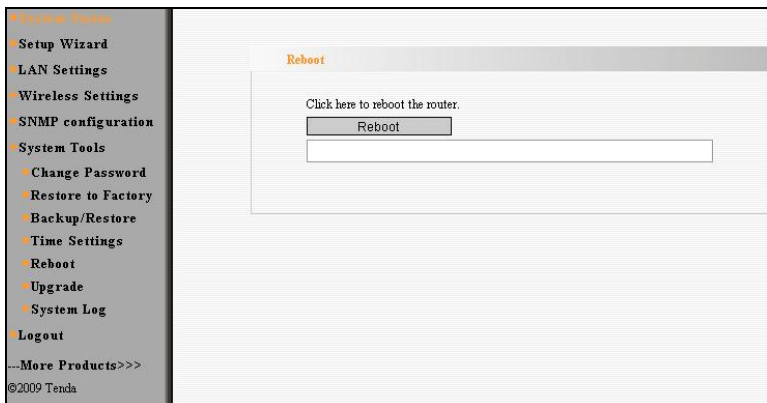
Setting Explanation:

- ✧ **Time Zone:** Select your time zone from the drop-down menu.
- ✧ **Customized time:** Enter the time you customize.

6.5 Reboot System

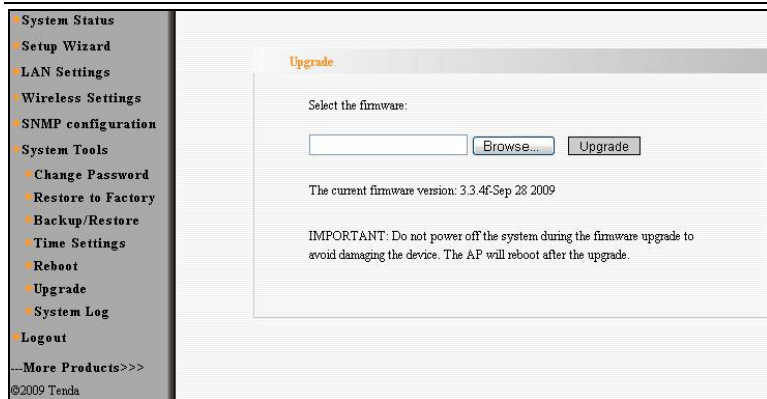
This page is used to reboot wireless access point. Rebooting the device makes the settings configured go into effect.

Reboot: Click this button to reboot the device.



6.6 Firmware Upgrade

The device provides the firmware upgrade by clicking the “Upgrade” after browsing for the firmware upgrade packet which you can download from www.tenda.cn. After the upgrade is completed, the device will reboot automatically.



Upgrade Steps:

1. Download the higher firmware version from our website:
www.tenda.cn.
2. Extract the firmware file on your computer.
3. On the Firmware Upgrade screen, enter the location directory of the firmware file in the field provided, or click the **Browse** button and find the file.
4. Click **Upgrade** button, and follow the on-screen instructions.
5. After the upgrade is completed, the device will reboot automatically.

IMPORTANT: Do not power off the system during the firmware upgrade to avoid damaging the device.

6.7 Syslog

The section is to view the system log. Click the “Refresh” to update the log. Click “Clear” to clear all shown information. If the log is over 150

records, it will clear them automatically.

System Log

Page 1 content

1	2007-03-29 09:48:09	System	wins started.
2	2007-03-29 09:48:09	System	Load watch dog success.
3	2007-03-29 09:48:09	System	System start success.

[1]

---More Products>>>
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Refresh: Click this button to update the log.

Clear: Click this button to clear the current log.

Appendix I: Glossary

Access Point (AP): Any entity that has station functionality and provides access to the distribution services, via the wireless medium (WM) for associated stations.

Channel: An instance of medium use for the purpose of passing protocol data units (PDUs) that may be used simultaneously, in the same volume of space, with other instances of medium use (on other channels) by other instances of the same physical layer (PHY), with an acceptably low frame error ratio (FER) due to mutual interference.

SSID: Service Set identifier. An SSID is the network name shared by all devices in a wireless network. Your network's SSID should be unique to your network and identical for all devices within the network. It is case-sensitive and must not exceed 20 characters (use any of the characters on the keyboard). Make sure this setting is the same for all devices in your wireless network.

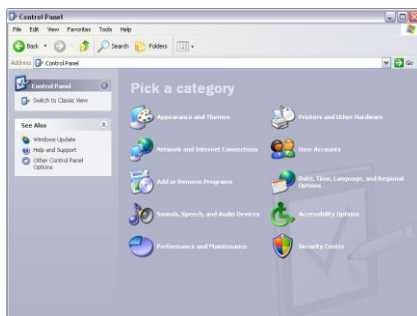
WEP: Wired Equivalent Privacy (WEP) is the method for secure wireless data transmission. WEP adds data encryption to every single packet transmitted in the wireless network. The 40bit and 64bit encryption are the same because of out 64 bits, 40 bits are private. Conversely, 104 and 128 bit are the same. WEP uses a common KEY to encode the data. Therefore, all devices on a

wireless network must use the same key and same type of encryption. There are 2 methods for entering the KEY; one is to enter a 16-bit HEX digit. Using this method, users must enter a 10-digit number (for 64-bit) or 26-digit number (for 128-bit) in the KEY field. Users must select the same key number for all devices. The other method is to enter a text and let the computer generate the WEP key for you. However, since each product use different method for key generation, it might not work for different products. Therefore, it is NOT recommend using.

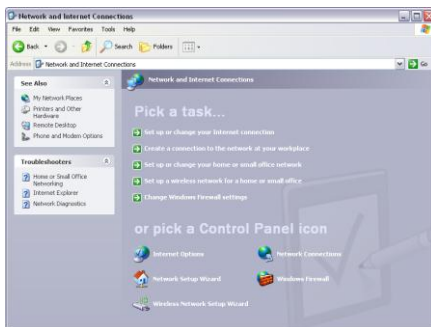
WPA/WPA2: A security protocol for wireless networks that builds on the basic foundations of WEP. It secures wireless data transmission by using a key similar to WEP, but the added strength of WPA is that the key changes dynamically. The changing key makes it much more difficult for a hacker to learn the key and gain access to the network. WPA2 is the second generation of WPA security and provides a stronger encryption mechanism through Advanced Encryption Standard (AES), which is a requirement for some government users.

Appendix II: TCP/IP Address Setting (Take WinXP for example)

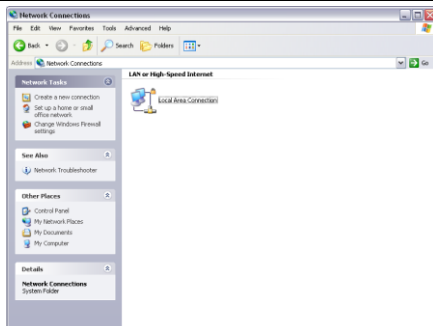
Click the “Start—>Settings—>Control Panel” (Fig- 1):



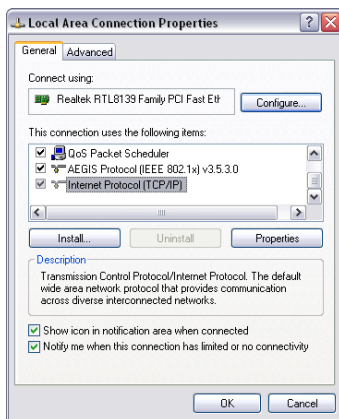
Click “Network and Internet Connections”, the windows as below will appear (Fig- 2):



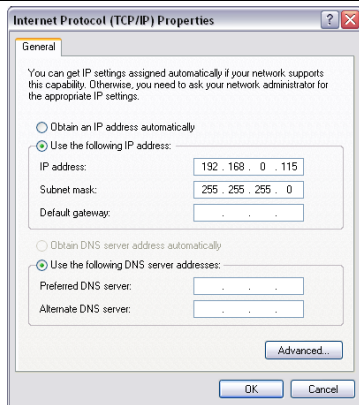
Click the “Network Connections”, as Fig-3:



Choose “Local Area Connection”, right-click on the icon, choose the “Properties”, then the “Local Area Connection Properties” windows appear, choose the “Internet Protocol (TCP/IP)” in the “This connection uses the following items”, click the “Properties”.



Choose the “Use the following IP address”, enter the IP address as: 192.168.0.xxx. (xxx ranges 1~253), Subnet mask is: 255.255.255.0(As Showed in Fig- 5)



Click "OK" to apply and return to the "Local Area Connection Properties" windows.

Continue click "OK" to exit the setting windows.

Appendix III: WDS Application Instances

The configurations of P2P, P2MP and Wireless Repeater in WDS mode are almost the same. The number of devices which need to be configured is different according to different mode. The following steps take P2P for example.

If you want to establish P2P transmission between AP1 and AP2, you need to set the parameters as follows.

Select “WDS” mode in Setup Guide for AP1 and set the SSID as “AP1” and channel as “13”. The BSSID is 00:b0:c6:05:4e:d0.

The screenshot displays the configuration interface for a Tenda wireless access point, specifically the 'Basic Settings' section. The left sidebar contains navigation options: System Status, Setup Wizard, LAN Settings, Wireless Settings, SNMP configuration, System Tools, Logout, and More Products. The main content area is titled 'Basic Settings' and is divided into two sections: 'Working Mode: AP' and 'Working Mode: WDS'. In the 'Working Mode: AP' section, the following settings are visible: Wireless Mode (11b/g/n mixed mode), SSID (AP1), Broadcast (SSID) (Enable), BSSID (00:B0:C6:05:4E:D0), WLAN Isolation (Disable), Channel (13), Operation Mode (Mixed Mode), Channel Bandwidth (20/40), Guard Interval (Auto), Reverse Direction Grant (RDG) (Enable), Extension Channel (2452MHz (Channel 9)), and Aggregation MSDU (Disable). The 'Working Mode: WDS' section includes a checkbox for 'Allow wireless client to access' (unchecked), WDS Mode (WDS P2P), AP MAC (empty field), and Channel (13). An 'Open Scan' button is located at the bottom of the WDS section.

Click “Next” to enter the WDS Security Setting.

The screenshot shows the configuration interface for a Tenda wireless access point. On the left is a navigation menu with the following items: System Status, Setup Wizard, LAN Settings, Wireless Settings, SNMP configuration, System Tools, Logout, and --More Products>>>. Below the menu is the copyright notice ©2009 Tenda. The main content area is titled "Security Setting" and contains a "WDS Security" section. Under this section, there are two fields: "WDS-Security Mode" with a dropdown menu set to "TKIP", and "Encryption Key" with a text input field containing "12345678". At the bottom of the section are two buttons: "Back" and "Next".

Select the encryption mode you need to use. (For example: set the encryption mode as TKIP and enter the encryption key as 12345678.)

The screenshot shows the configuration interface for a Tenda wireless access point. On the left is a navigation menu with the following items: System Status, Setup Wizard, LAN Settings, Wireless Settings, SNMP configuration, System Tools, Logout, and --More Products>>>. Below the menu is the copyright notice ©2009 Tenda. The main content area is titled "Setup Wizard" and contains a message: "You have set the parameters of multifunctional wireless AP successfully. Click 'Save' to save and enable settings. If you want to configure more, please select other menu." At the bottom of the section are two buttons: "Back" and "Save".

Click "Next" and save the settings. Then enter the AP2 settings.

Select "WDS" mode for AP2 and set SSID as "AP2". Select the channel "13" which is the same as AP1. Enter the BSSID: 00:b0:c6:05:4e:d0 of AP1 into the AP MAC blank and record the BSSID 00:b0:c6:05:4e:dd of AP2. (You can also use "Enable scan to add".)

Basic Settings

Working Mode: AP

Wireless Mode: 11b/g/n mixed mode ▾

SSID: AP2

Broadcast(SSID): Enable Disable

BSSID: 00:B0:C6:05:4E:DD

WLAN Isolation: Enable Disable

Channel: 13 ▾

Operation Mode: Mixed Mode Green Field

Channel Bandwidth: 20 20/40

Guard Interval: long Auto

Reverse Direction: Disable Enable

Grant(RDG): Disable Enable

Extension Channel: 2452MHz (Channel 9) ▾

Aggregation MSDU: Disable Enable

Working Mode: WDS

Allow wireless client to access

WDS Mode: WDS P2P ▾

AP MAC: 00:b0:c6:05:4e:d0

Channel: 13 ▾

Open Scan

Click “Next” to enter the WDS security setting and select AP1 corresponding encryption mode. Then enter the encryption key. (We select TKIP and encryption key 12345678.)

Security Setting

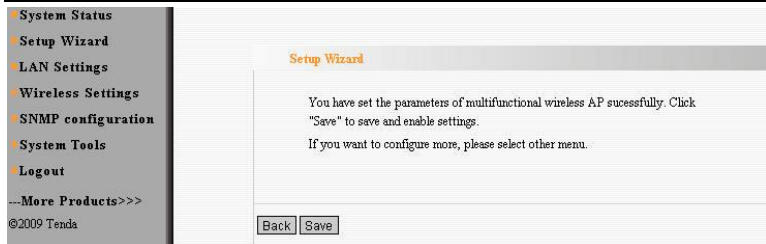
WDS Security

WDS-Security Mode: TKIP ▾

Encryption Key: 12345678

Back Next

Click “Next” and save the settings.



After you finished AP2 settings, return to AP1 setting.

Select “Wireless Settings→ Basic Setting” in AP. SSID, channel and extension channel can’t be changed. You only need to enter BSSID: 00:b0:c6:05:4e:dd of AP2 in AP MAC address blank and then save it (You can also use “Enable Scan to add”). Now all the settings of WDS have been finished.

