Band	Select the desired mode. Default is "2.4GHz (B+G+N)". It is strongly
	recommended that you set the Band to "2.4GHz (B+G+N)", and all of
	802.11b, 802.11g, and 802.11n wireless stations can connect to the
	WDAP-C7200AC.
	■ 2.4 GHz (B) : 802.11b mode, rate is up to 11Mbps
	■ 2.4 GHz (G): 802.11g mode, rate is up to 54Mbps
	■ 2.4 GHz (N): 802.11n mode, rate is up to 300Mbps(2T2R)
	■ 2.4 GHz (B+G): 802.11b/g mode, rate is up to 11Mbps or 54Mbps
	■ 2.4 GHz (G+N): 802.11g/n mode, rate is up to 54Mbps or 300Mbps
	■ 2.4 GHz (B+G+N): 802.11b/g/n mode, rate is up to 11Mbps,
	54Mbps, or 300Mbps
Mode	There are four kinds of wireless mode selections:
	■ AP
	■ Client
	■ WDS
	AP+WDS
	If you select WDS or AP+WDS, please click " WDS Settings " submenu
	for the related configuration. Furthermore, click the "Multiple AP"
	button to enable multiple SSID function.
SSID	The ID of the wireless network. User can access the wireless network
	via the ID only. However, if you switch to Client Mode, this field
	becomes the SSID of the AP you want to connect with.
	Default: Blanot AP 2 4G
Channel Width	You can select 20MHz , or 40MHz .
Channel Number	You can select the operating frequency of wireless network.
	Default: 11
Broadcast SSID	If you enable "Broadcast SSID" every wireless station located within
Bioddodot OOID	the coverage of the AP can discover its signal easily. If you are building
	a public wireless network, enabling this feature is recommended. In
	private network, disabling "Broadcast SSID" can provide better
	wireless network security.
	Default is " Enabled ".
Data Rate	Set the wireless data transfer rate to a certain value. Since most of
	wireless devices will negotiate with each other and pick a proper data
	transfer rate automatically, it's not necessary to change this value
	unless you know what will happen after modification.
	Default is " Auto" .
Associated Clients	Click the "Show Active Clients" button to show the status table of
	active wireless clients.

Enable Universal	Universal Repeater is a technology used to extend wireless coverage.
Repeater Mode	To enable Universal Repeater mode, check the box and enter the
(Acting as AP and client simultaneously)	SSID you want to broadcast in the field below. Then please click "Security" submenu for the related settings of the AP you want to connect with.

Multiple-SSID

Enable multiple-SSID can broadcast multiple WLAN SSID's using virtual interfaces. You can have different encryption settings for each WLAN and you can restrict what they have access to.

	AP(Multi-SSI	D) Mode
Internet	WDAP-C7200AC	SSID-1(5G) (((Clients
		SSID-2(2.4G) (((
O AP Mode		Clients

Choose menu "WLAN1 (2.4GHz) \rightarrow Basic Settings \rightarrow Multiple AP" to configure the device as a general wireless access point with multiple SSIDs.

Wireless B	asic Settings - WLAN2 (2	2.4GHz)
Disable Wir	eless LAN Interface	
Band:	2.4 GHz (B+G+N) 🔽	
Mode:	AP V MultipleAP	
Network Type:	Infrastructure 👻	
SSID:	Planet AP 2.4G	Add to Profile

Figure 5-50 2.4GHz Wireless Basic Settings - Multiple AP

The device supports up to four multiple Service Set Identifiers. You can back to the **Basic Settings** page to set the Primary SSID. The SSID's factory default setting is **Planet 2.4G VAP1~4 (Multiple-SSID 1~4)**. The SSID can be easily changed to connect to an existing wireless network or to establish a new wireless network. When the information for the new SSID is finished, click the **Apply Changes** button to let your changes take effect.

No.	Enable	Band	SSID	Data Rate	Broadcast SSID	WMM	Access	Tx Restrict (Mbps)	Rx Restrict (Mbps)	Active Client List	WLAN mode
AP1	~	2.4 GHz (B+G+N) 💌	Planet 2.4G VA	Auto 🔽	Enabled 💌	Enabled 👻	LAN 💌	0	0	Show	AP
AP2		2.4 GHz (B+G+N) 💌	Planet 2.4G VA	Auto 💌	Enabled 💌	Enabled 👻	LAN 💌	0	0	Show	AP
AP3	~	2.4 GHz (B+G+N) 💌	Planet 2.4G VA	Auto 💌	Enabled 💌	Enabled 🖂	LAN 🛩	0	0	Show	AP
AP4		2.4 GHz (B+G+N) 💌	Planet 2.4G VA	Auto 💌	Enabled 💌	Enabled V	LAN 🗸	0	0	Show	AP

Figure 5-51 2.4GHz Multiple-SSID

Once you have applied and saved those settings, you can then go to the "WLAN1 (2.4GHz) \rightarrow Security" page on the AP to set up security settings for each of the SSIDs.

Universal Repeater

This mode allows the AP with its own BSS to relay data to a root AP to which it is associated with WDS disabled. The wireless repeater relays signal between its stations and the root AP for greater wireless range.



2. Example of how to configure **Universal Repeater Mode**. Please take the following steps:

To configure each wireless parameter, please go to the "WLAN2 (2.4GHz) \rightarrow Basic Settings" page.

Step 1. Configure wireless mode to "AP" and then check "Enable Universal Repeater Mode (Acting as AP and client simultaneously)". Click "Apply Changes" to take effect.

2.4 GHz (B+G+N) AP MultipleAP Sype: Infrastructure Planet AP 2.4G Add to Profile Add to Profile	Disable Wi	reless LAN Interface	
AP MultipleAP Sype: Infrastructure Planet AP 2.4G Add to Profile Add to Profile	Band:	2.4 GHz (B+G+N) 😪	
Type: Infrastructure Planet AP 2.4G Add to Profile the Mac Clone (Single Ethernet Client)	Mode:	AP V MultipleAP	
Planet AP 2.4G Add to Profile Ole Mac Clone (Single Ethernet Client)	Network Type:	Infrastructure 😪	
ele Mac Clone (Single Ethernet Client)	SSID:	Planet AP 2.4G Add	to Profile
le Universal Repeater Mode (Acting as AP and client ouly)	SSID:	Planet AP 2.4G Add	to Prof

Figure 5-52 2.4GHz Universal Repeater-1

Step 2. Go to 2.4GHz Site Survey page to find the root AP. Select the root AP that you want to repeat the signal, and then click "Next".



Figure 5-53 2.4GHz Universal Repeater-2

Output Concount of the concount of the boothing wey. Then, then Connect

nanually when client mode is en	nabled.
Wireless Router Re	>70% (((Range Extender Range Ext
Encryption: WPA2 💌	
Encryption: WPA2 💌	C Enterprise (RADIUS) Personal (Pre-Shared Key)
Encryption: WPA2 💌 Authentication Mode: WPA2 Cipher Suite:	 Enterprise (RADIUS) Personal (Pre-Shared Key) TKIP AES
Encryption: WPA2 💌 Authentication Mode: WPA2 Cipher Suite: Pre-Shared Key Format:	 Enterprise (RADIUS) Personal (Pre-Shared Key) TKIP AES Passphrase

Figure 5-54 2.4GHz Universal Repeater-3

Step 4. Check "Add to Wireless Profile" and click "Reboot Now".



Figure 5-55 2.4GHz Universal Repeater-4

Step 5. Go to "Management-> Status" page to check whether the state of Repeater interface should be "Connected".

Wireless 2 Repeater Interface	Configuration
Mode	Infrastructure Client
SSID	Default_2.4G_1
Encryption	WPA2
BSSID	00:30:4f:b4:c4:a0
State	Connected

Figure 5-56 2.4GHz Universal Repeater-5

Client (Infrastructure)

Combine the Wireless Router to the Ethernet devices such as TV, Game player, or HDD and DVD, to make them be wireless stations.



Band:	2.4 GHz (B+G+N) 💌	
Mode:	Client MultipleAP	
Network Type:	Infrastructure 💌	
SSID:	Planet AP 2.4G	Add to Profile
Channel Width:	40MHz 💙	
Control Sideband:	Upper 💙	
Channel Number:	11	
Broadcast SSID:	Enabled 💌	
WMM:	Enabled Y	
Data Rate:	Auto 💌	
TX restrict:	0 Mbps (0:no restrict)	
RX restrict:	0 Mbps (0:no restrict)	
Associated Clients:	Show Active Clients	
Enable Mac	Clone (Single Ethernet Client)	
SSID of Extended		Add to Profile
Interface: Defau	it_2.4G_1	
Enable Wirel	ess Profile	
Vivalaas Drafila I i		

Figure 5-57 2.4GHz Wireless Basic Settings – Client

The page includes the following fields:

Object	Description
Disable Wireless LAN	Check the box to disable the wireless function.
Interface	
Band	Select the desired mode. Default is "2.4GHz (B+G+N)". It is strongly
	recommended that you set the Band to "2.4GHz (B+G+N)", and all of
	802.11b, 802.11g, and 802.11n wireless stations can connect to the
	WDAP-C7200AC.
	■ 2.4 GHz (B) : 802.11b mode, rate is up to 11Mbps
	2.4 GHz (G): 802.11g mode, rate is up to 54Mbps
	2.4 GHz (N) : 802.11n mode, rate is up to 300Mbps(2T2R)

	2.4 GHz (B+G) : 802.11b/g mode, rate is up to 11Mbps or 54Mbps
	■ 2.4 GHz (G+N): 802.11g/n mode, rate is up to 54Mbps or 300Mbps
	2.4 GHz (B+G+N): 802.11b/g/n mode, rate is up to 11Mbps,
	54Mbps, or 300Mbps
Mode	There are four kinds of wireless mode selections:
	■ AP
	Client
	■ WDS
	■ AP+WDS
	If you select WDS or AP+WDS, please click "WDS Settings" submenu
	for the related configuration. Furthermore, click the "Multiple AP"
	button to enable multiple SSID function.
Network Type	In Infrastructure, the wireless LAN serves as a wireless station. And
	the user can use the PC equipped with the WDAP-C7200AC to access
	the wireless network via other access points. In Ad hoc, the wireless
	LAN will use the Ad-hoc mode to operate.
	Default is "Infrastructure".
	Note: only while the wireless mode is set to "Client", then the Network
	Type can be configured.
SSID	The ID of the wireless network. User can access the wireless network via the ID only. However, if you switch to Client Mode, this field becomes the SSID of the AP you want to connect with.
	Default: Planet AP 2.4G
Broadcast SSID	If you enable "Broadcast SSID", every wireless station located within the coverage of the WDAP-C7200AC can discover its signal easily. If you are building a public wireless network, enabling this feature is recommended. In private network, disabling "Broadcast SSID" can provide better wireless network security.
	Default is " Enabled ".
Data Rate	Set the wireless data transfer rate to a certain value. Since most of wireless devices will negotiate with each other and pick a proper data transfer rate automatically, it's not necessary to change this value unless you know what will happen after modification.
	Default is " Auto" .
Enable Mac Clope	Enable Mac Clone
(Single Ethernet Client)	

> Example of how to configure **Client Mode**. Please take the following steps:

To configure each wireless parameter, please go to the "WLAN2 (2.4GHz) \rightarrow Basic Settings" page.



Step 1. Go to "WLAN2 (2.4GHz) → Site Survey" page and click "Site Survey" button.

Figure 5-58 Client - Survey

Step 2. Choose the root AP from the list. If the root AP is not listed in the table, re-click "Site Survey" to update

the list.

	e is enzoied.				unu, yo		
)))			>70	%	(((Range B	Extender
Areless Router Site Survey	Recommen	ded Sigr	nal Stre	ngth		1	
SSID	BSSID	Channel	Туре	Encrypt	Signal	Select	
WDRT-1200AC-5G	00:30:4f:74:20:08	6 (B+G+N)	AP	WPA2-PSK	78	0	
WDRT-1200AC-5G	00:30:4f:76:20:08	6 (B+G+N)	AP	WPA2-PSK	78	0	
	00:30:4f:91:1c:44	1 (B+G+N)	AP	no	60	0	
WiFiRepeater-001		11	AP	WPA2-PSK	52	$\overline{\bigcirc}$	
WiFiRepeater-001 Default_2.4G_1	00:30:4f;b4:c4:a0	(B+G+N)					
WiFiRepeater-001 Default_2.4G_1 WDRT-1200AC-2.4G	00:30:4f:b4:c4:a0 00:30:4f:1c:7e:e4	(B+G+N) 6 (B+G+N)	AP	WPA2-PSK	44	0	
WiFiRepeater-001 Default_2.4G_1 WDRT-1200AC-2.4G ADN-4100_ENM	00:30:4f:b4:c4:a0 00:30:4f:1c:7e:e4 00:30:4f:9c:a3:25	(B+G+N) 6 (B+G+N) 1 (B+G+N)	AP AP	WPA2-PSK WPA- PSK/WPA2- PSK	44 44	•	

Figure 5-59 Client – AP List

Step 3. Enter the Security Key of the root AP and then click "Connect".

Wireless Site Surv	vey - WLAN2 (2.4GHz)
Wireless Router	>70% (((Range Extender ecommended Signal Strength
Encryption: WPA2	
Authentication Mode:	Enterprise (RADIUS) Personal (Pre-Shared Key)
WPA2 Cipher Suite:	TKIP AES
Pre-Shared Key Format:	Passphrase 💌



Step 4. Wait until the connection established. Check the "Add to Wireless Profile" option and then reboot it.

Connect successfully!				
Add to Wireless Profile				
Reboot Now	Reboot Later			

Figure 5-61 Client - Status

WDS

Connect this Wireless AP with up to 8 WDS-capable wireless APs to expand the scope of network.





Disable Wire	less LAN Interface	
Band:	2.4 GHz (B+G+N) 🗸	
Mode:	WDS MultipleAP	
Network Type:	Infrastructure	
SSID:	Planet AP 2.4G	Add to Profile
Channel Width:	40MHz 🗙	
Control Sideband:	Upper 💌	
Channel Number:	11 💌	
Broadcast SSID:	Enabled 💌	
WMM:	Enabled V	
Data Rate:	Auto 💌	
X restrict:	0 Mbps (0:no restrict)	
RX restrict:	0 Mbps (0:no restrict)	
Associated Clients:	Show Active Clients	
Enable Mac	Clone (Single Ethernet Client)	
Enable Mac Enable Univ multaneouly)	Clone (Single Ethernet Client) ersal Repeater Mode (Acting as AP and client	
SSID of Extended		A 141 D. C.

Figure 5-62 2.4GHz Wireless Basic Settings – WDS

The page includes the following fields:

Object	Description
Disable Wireless LAN	Check the box to disable the wireless function.
Interface	
Band	Select the desired mode. Default is " 2.4GHz (B+G+N) ". It is strongly recommended that you set the Band to "2.4GHz (B+G+N)", and all of 802.11b, 802.11g, and 802.11n wireless stations can connect to the WDAP-C7200AC.
	 2.4 GHz (B): 802.11b mode, rate is up to 11Mbps 2.4 GHz (G): 802.11g mode, rate is up to 54Mbps 2.4 GHz (N): 802.11n mode, rate is up to 300Mbps(2T2R) 2.4 GHz (B+G): 802.11b/g mode, rate is up to 11Mbps or 54Mbps 2.4 GHz (G+N): 802.11g/n mode, rate is up to 54Mbps or 300Mbps 2.4 GHz (B+G+N): 802.11b/g/n mode, rate is up to 11Mbps, 54Mbps, or 300Mbps
Mode	 There are four kinds of wireless mode selections: AP Client WDS AP+WDS If you select WDS or AP+WDS, please click "WDS Settings" submenu for the related configuration. Furthermore, click the "Multiple AP" button to enable multiple SSID function.
Channel Width	You can select 20MHz , or 40MHz
Control Sideband	You can select Upper or Lower .
Channel Number	You can select the operating frequency of wireless network.
Data Rate	Set the wireless data transfer rate to a certain value. Since most of wireless devices will negotiate with each other and pick a proper data transfer rate automatically, it's not necessary to change this value unless you know what will happen after modification. Default is "Auto".

AP+ WDS

Connect this Wireless AP with up to 8 WDS-capable wireless APs, and connect another AP to provide service for all wireless stations within its coverage.

	WDS Repeater Mode	
Internet AP	WDAP-C7200AC 5G WDS	Clients

Disable Wire	eless LAN Interface	
Band:	2.4 GHz (B+G+N) 🗸	
fode:	AP+WDS MultipleAP	
Network Type:	Infrastructure 🛩	
SSID:	Planet AP 2.4G	Add to Profile
Channel Width:	40MHz 💌	
Control Sideband:	Upper 🛩	
Channel Number:	11 💌	
Broadcast SSID:	Enabled 💌	
WMM:	Enabled V	
Data Rate:	Auto 💌	
X restrict:	0 Mbps (0:no restrict)	
X restrict:	0 Mbps (0:no restrict)	
ssociated lients:	Show Active Clients	

Figure 5-63 2.4GHz Wireless Basic Settings – WDS+AP

The page includes the following fields:

Object	Description
Disable Wireless LAN	Check the box to disable the wireless function.
Interface	
Country	Select your region from the pull-down list.
	This field specifies the region where the wireless function of the Router
	can be used. It may be illegal to use the wireless function of the Router
	in a region other than one of those specified in this field. If your country
	or region is not listed, please contact your local government agency for
	assistance.
Band	Select the desired mode. Default is "2.4GHz (B+G+N)". It is strongly
	recommended that you set the Band to "2.4GHz (B+G+N)", and all of
	802.11b, 802.11g, and 802.11n wireless stations can connect to the
	WDAP-C7200AC.
	2.4 GHz (B) : 802.11b mode, rate is up to 11Mbps
	■ 2.4 GHz (G) : 802.11g mode, rate is up to 54Mbps
	2.4 GHz (N) : 802.11n mode, rate is up to 300Mbps(2T2R)
	■ 2.4 GHz (B+G) : 802.11b/g mode, rate is up to 11Mbps or 54Mbps
	■ 2.4 GHz (G+N): 802.11g/n mode, rate is up to 54Mbps or 300Mbps
	■ 2.4 GHz (B+G+N) : 802.11b/g/n mode, rate is up to 11Mbps,
	54Mbps, or 300Mbps
Mode	There are four kinds of wireless mode selections:
	AP+WDS
	If you select wDS of AP+WDS, please click wDS Settings submenu
	button to enable multiple SSID function
SSID	The ID of the wireless network. User can access the wireless network
	via the ID only. However, if you switch to Client Mode, this field
	becomes the SSID of the AP you want to connect with.
	Default: Planet AP 2.4G
Channel Width	You can select 20MHz , or 40MHz
Control Sideband	You can select Upper or Lower .
Channel Number	You can select the operating frequency of wireless network.
Broadcast SSID	If you enable "Broadcast SSID", every wireless station located within
	the coverage of the WDAP-C7200AC can discover its signal easily. If
	you are building a public wireless network, enabling this feature is
	recommended. In private network, disabling "Broadcast SSID" can

	provide better wireless network security.		
	Default is " Enabled ".		
Data Rate	Set the wireless data transfer rate to a certain value. Since most of		
	wireless devices will negotiate with each other and pick a proper data		
	transfer rate automatically, it's not necessary to change this value		
	unless you know what will happen after modification.		
	Default is " Auto" .		
Associated Clients	Click the "Show Active Clients" button to show the status table of		
	active wireless clients.		
Enable Universal	Universal Repeater is a technology used to extend wireless coverage.		
Repeater Mode	To enable Universal Repeater Mode, check the box and enter the		
(Acting as AP and client	SSID you want to broadcast in the field below. Then please click		
simultaneously)	"Security" submenu for the related settings of the AP you want to		
	connect with.		

5.4.2 Advanced Settings

Choose menu "WLAN2 (2.4GHz)→ Advanced Settings" to configure the 2.4GHz advanced settings for the wireless network on this page. After the configuration, please click the "Apply" button to save the settings.

These settings are only for n wireless LAN. These setting on your Access Point.	nore technically ad is should not be ch	wanced users who have a sufficient knowledge about langed unless you know what effect the changes will have
Fragment Threshold:	2346	(256-2346)
RTS Threshold:	2347	(0-2347)
Beacon Interval:	100	(20-1024 ms)
Preamble Type:	Long Preas	mble O Short Preamble
LAPP:	• Enabled	O Disabled
Protection:	O Enabled	Disabled
Aggregation:	• Enabled	O Disabled
Short GI:	• Enabled	O Disabled
WLAN Partition:	O Enabled	Disabled
STBC:	• Enabled	O Disabled
LDPC:	Enabled	O Disabled
20/40MHz Coexist:	O Enabled	Disabled

Figure 5-64 Wireless Advanced Settings – 2.4GHz

The page includes the following fields:

Description						
You can specify the maximum size of packet during the fragmentation						
of data to be transmitted. If you set this value too low, it will result in						
bad performance.						
Default is "2346".						
When the packet size is smaller than the RTS threshold, the access						
point will not use the RTS/CTS mechanism to send this packet.						
Default is "2347".						
The interval of time that this access point broadcasts a beacon.						
Beacon is used to synchronize the wireless network. Default is "100".						
IAPP (Inter-Access Point Protocol) enabled is recommended as it						
describes an optional extension to IEEE 802.11 that provides wireless						
access-point communications among multivendor systems.						
Default is "Enabled".						
It is recommended to enable the protection mechanism. This						
mechanism can decrease the rate of data collision between 802.11b						
and 802.11g wireless stations. When the protection mode is enabled,						
the throughput of the AP will be a little lower due to the transmission of						
heavy frame traffic.						
Default is "Disabled".						
It is a function where the values of multiple rows are grouped together.						
Default is "Enabled"						
It is used to set the time that the receiver waits for RF reflections to						
settle out before sampling data.						
I his feature also called "WLAN Isolation" or "Block Relay". If this is						
enabled, wireless clients cannot exchange data through the						
WDAF-07200A0.						
Activate Space Time Pleaking Code (STPC) which does not need						
channel statement information (CSI)						
Default Setting: "Enabled"						
Low-density Parity-check Code is wireless data transmit algorithm						
Default Setting: "Enabled"						
Configure 20/40MHz coexisting scheme						
If you set up as "Enabled" "20MHz" and "40MHz" will coexist						
Default Setting: "Disabled"						

5.4.3 RF Output Power

Choose menu "WLAN2 (2.4GHz) \rightarrow RF Output Power" to adjust to different levels of transmitting power for the wireless network according to various environment on this page. After the configuration, please click the "Apply Changes" button to save the settings.



Figure 5-65 RF Output Power - 2.4GHz

RF Output Power Control provides the flexibility to control the Wi-Fi Transmit power to optimize the wireless range. Wi-Fi power consumption for an Access Point could be reduced to up to 75% from its peak power consumption for serving small to medium size homes, while boosted to maximum power for large homes and businesses. The WDAP-C7200AC supports output power control levels up to 5. You can change the RF output power level here in accordance with various environments and signal strength.

5.4.4 Security

Choose menu "WLAN2 (2.4GHz) → Security" to configure the settings of wireless security for the wireless network on this page. After the configuration, please click the "Apply Changes" button to save the settings.

Wireless This page allow unauthorized ac	Security Setup - rs you setup the wireless secu cess to your wireless network	• WLAN rity. Turn on V	2 (2.4GHz) WEP or WPA by using E	ncryption Keys cou	ld prevent any
Select SSID:	Root AP - Planet AP 2	4G 🔽 🚺	Apply Changes	Reset	
	Western Darker	111			
C	Wireless Router	C S	2		
Intern	Home Network		2.4GHz Wi-Fi Ne	etwork	2.4GHz
Encry	ption:	Disable	~		
802.1	x Authentication:				

Figure 5-66 Wireless Security Settings – 2.4GHz

The page includes the following fields:

Object	Description
Select SSID	Select the SSID you want to configure the wireless security function, which
	includes the root one and the client one.
Encryption	Disable:
	No security setup for wireless connection.
	■ WEP:
	It is based on the IEEE 802.11 standard. And the default setting of
	authentication is Automatic, which can select Open System or Shared Key
	authentication type automatically based on the wireless station's capability
	and request. Furthermore, you can select Key Length and enter 10 and 26
	Hexadecimal digits (any combination of 0-9, a-f, A-F, zero key is not
	promoted) or 5 and 13 ASCII characters in the Encryption Key field.
	WPA:
	WPA is a medium level encryption and is supported by most wireless devices
	and operating systems.

	WPA2: WPA2 is a high level encryption and is supported by most wireless devices and operating systems.
	WPA / WPA2 / WPA-Mixed: WPA Mixed Mode allows the use of both WPA and WPA2 at the same time.
Authentication Mode	Enterprise (RADIUS) When you select the authentication mode based on Enterprise (Radius Server), please enter the IP Address, Port, and Password of the Radius Server.
	Personal (Pre-Shared Key) When you select the other authentication mode based on Personal (Pre-Shared Key), please enter at least 8 ASCII characters (Passphrase) or 64 Hexadecimal characters. All of the Cipher Suites support TKIP and AES.
802.1x Authentication	Enable 802.1x authentication function and then enter the IP Address , Port , and Password of the Radius Server.

5.4.5 Access Control

Choose menu "WLAN2 (2.4GHz) \rightarrow Access Control" to allow or deny the computer of specified MAC address to connect with the WDAP-C7200AC on this page. After the configuration, please click the "Apply Changes" button to save the settings.

Wireless Access Co	ntrol - W	LAN2 (2.4	(GHz)
If you choose 'Allowed Listed', only control list will be able to connect to clients on the list will not be able to	y those clients who your Access Po connect the Acce	nose wireless MA int. When 'Deny I ess <mark>P</mark> oint.	C addresses are in the access Listed is selected, these wirele
Wireless Access Control Mode:	Disable	*	
MAC Address:	Disable Allow Listed Deny Listed		
Apply Changes Res	set		
Current Access Control List:			
MAC Address	0	Comment	Select
Delete Selected Delete	elete All	Reset	

Figure 5-67 Wireless Access Control – 2.4GHz

The page includes the following fields:

Object	Description
Wireless Access	You can choose to set the Allowed-List, Denied-List, or disable this function.
Control Mode	
MAC Address	Enter the MAC address you want to allow or deny connection to the
	WDAP-C7200AC in the field.
Comment	You can make some comment on each MAC address on the list.
Current Access Control	You can select some MAC addresses and click the "Delete Selected" button to
List	delete it.

Wireless Access Control example:

To deny a PC at the MAC address of 00:30:4F:00:00:01 to connect to your wireless network, do as follows:

Step 1. Select "Deny" from MAC Address Filter drop-down menu.

Step 2. Enter 00:30:4F:00:00:01 in the MAC address box and click "Add".

Step 3. Click the "**OK**" button to save your settings and you can add more MAC addresses, if you like, simply repeat the above steps.

If you choose 'Allowed Listed', only the control list will be able to connect to yo clients on the list will not be able to con	ose clients whose wireless MA ur Access Point. When 'Deny I nect the Access Point.	C addresses are in the access Listed is selected, these wirele
Wireless Access Control Mode:	Deny Listed 💌	
MAC Address:	Comment:	
Apply Changes Reset]	
Apply Changes Reset Current Access Control List: MAC Address) Comment	Select

Figure 5-68 Wireless Access Control – Deny

5.4.6 WDS

WDS (Wireless Distribution System) feature can be used to extend your existing 2.4G or 5G wireless network coverage. Here we present you how to configure such feature in 2.4GHz, which also applies to 2.4GHz.



Before configuring the WDS Setting page, you have to select the wireless mode to "WDS" on the WLAN2 (2.4GHz) -> Basic Settings web page.

Disable Wir	eless LAN Interface		
Band:	2.4 GHz (B+G+N)		
Mode:	WDS 💌	MultipleAP	
Network Type:	Infrastructure		
SSID:	Planet AP 2.4G		Add to Profile
Channel Width:	40MHz 💌		

Figure 5-69 WDS Mode - 2.4GHz

Choose menu "WLAN2 (2.4GHz) \rightarrow WDS Settings" to configure WDS to connect the WDAP-C7200AC with another AP on this page. After the configuration, please click the "Apply Changes" button to save the settings.

Vireless Distribution S loes. To do this, you n rou want to communic	System use must set th cate with in	es wireless media to com lese APs in the same cha n the table and then enab	municate with other A nnel and set MAC add le the WDS.	Ps, like the Ethernet dress of other APs whi
Enable WDS				
MAC Address:				
Data Rate: A	uto	~		
Comment:				
Apply Changes	st:	eset Set Se	ecurity Sho	ow Statistics
Apply Changes Current WDS AP Lis MAC Addres	st:	eset Set Set Set Set Set Set Set Set Set S	ecurity Sho Comment	Select
Apply Changes Current WDS AP Lis MAC Addres 00:30:4f:11:11:	st: s 11	eset Set Set Tx Rate (Mbps) Auto	ecurity Sho Comment peer-1	Select
Apply Changes Current WDS AP Lis MAC Addres 00:30:4f:11:11: 00:30:4f:22:22:	st: s 11 22	eset Set Set Set Set Set Auto Auto Auto	ecurity Sho Comment peer-1 peer-2	Select
Apply Changes Current WDS AP Lis MAC Addres 00:30:4f:11:11: 00:30:4f:22:22: 00:30:4f:33:33:	st: s 11 22 33	eset Set Set Set Set Set Auto Auto Auto	Comment peer-1 peer-2 peer-3	Select
Apply Changes Current WDS AP Lis 00:30:4f:11:11: 00:30:4f:22:22: 00:30:4f:33:33: 00:30:4f:44:44:	st: s 11 22 33 44	eset Set Set Set Set Set Set Set Auto Auto Auto Auto Auto Auto Auto	Comment peer-1 peer-2 peer-3 peer-4	Select
Apply Changes Current WDS AP Lis MAC Addres 00:30:4f:11:11: 00:30:4f:22:22: 00:30:4f:33:33: 00:30:4f:455:55:	st: s 11 22 33 44 55	eset Set Set Set Set Set Set Set Set Set S	Comment peer-1 peer-2 peer-3 peer-4 peer-5	Select
Apply Changes Current WDS AP Lis 00:30:4f:11:11: 00:30:4f:22:22: 00:30:4f:33:33: 00:30:4f:44:44: 00:30:4f:55:55: 00:30:4f:66:66:	st: s 11 22 33 44 55 66	eset Set Set Set Set Set Set Set Set Set S	Comment peer-1 peer-2 peer-3 peer-4 peer-5 peer-6	Select
Apply Changes Current WDS AP Lis 00:30:4f:11:11: 00:30:4f:22:22: 00:30:4f:33:33: 00:30:4f:44:44: 00:30:4f:55:55: 00:30:4f:66:66: 00:30:4f:77:77:	st: s 11 22 33 44 55 66 77	eset Set Set Set Set Set Set Set Set Set S	ecurity Sho Comment peer-1 peer-2 peer-3 peer-4 peer-5 peer-6 peer-7	Select

Figure 5-70 WDS Settings - 2.4GHz

This page allows you setup th WDS device has adopted the s	e wireless security for WDS. When enabled, you must make sure ea ame encryption algorithm and Key.
Encryption:	None
WEP Key Format:	ASCII (5 characters)
WEP Key:	
Pre-Shared Key Format:	Passphrase
Pre-Shared Kev:	

Figure 5-71 WDS - Set Security

The page includes the following fields:

Object	Description
Enable WDS	Check the box to enable the WDS function. Please select WDS or
	AP+WDS in the Mode of Wireless Basic Settings before you enable
	WDS on this page.
MAC Address	You can enter the MAC address of the AP you want to connect with.
Data Rate	Default is " Auto" .
Comment	You can make some comment for each MAC address on the list.
Set Security	Click the "Set Security" button to configure the wireless security
	parameters of the AP you want to connect via WDS.
Show Statics	Click the "Show Statics" button to show the WDS AP.
Current WDS AP List	You can select some MAC addresses of the AP and click the "Delete
	Selected" button to delete it.



WDS feature can only be implemented between 2 wireless devices that both support the WDS feature. Plus, **channel**, **security settings** and **security key** must be **the same** on both such devices.



To encrypt your wireless network, click "**Set Security**". For the detail of wireless security, see <u>section 5.5.4</u>. Do remember to reboot the device after you save your wireless security settings; otherwise, the WDS feature may not function.

5.4.7 Site Survey

Choose menu "WLAN2 (2.4GHz) \rightarrow Site Survey" to scan the available local AP. If any Access Point is found, you could choose any one to connect with manually when the Client Mode is enabled.



Figure 5-72 Site Survey – 2.4GHz

5.4.8 WPS

WPS (**Wi-Fi Protected Setup**) is designed to ease setup of security Wi-Fi networks and subsequently network management. This Wireless Router supports WPS features for **AP mode**, **AP+WDS mode**, **Infrastructure-Client mode**, and the wireless root interface of **Universal Repeater mode**.

Simply enter a PIN code or press the software PBC button or hardware WPS button (if any) and a secure wireless connection is established.

- PBC: If you find the WPS LED blinking for 2 minutes after you press the hardware WPS button on the device, it means that PBC encryption method is successfully enabled. And an authentication will be performed between your router and the WPS/PBC-enabled wireless client device during this time; if it succeeds, the wireless client device connects to your device, and the WPS LED turns off. Repeat steps mentioned above if you want to connect more wireless client devices to the device.
- PIN : To use this option, you must know the PIN code from the wireless client and enter it in corresponding field on your device while using the same PIN code on client side for such connection.

The page includes the following fields:

Object	Description
Disable WPS	You can check the box to disable the WPS function.
WPS Status	Here you can check if the connection via WPS is established or not.
Self-PIN Number	It is the PIN number of the WDAP-C7200AC here.
Push Button	Click the "Start PBC" to activate WPS as well in the client device within
Configuration	2 minutes.
Client PIN Number	In addition to the PBC method, you can also use the PIN method to
	activate the WPS. Just enter the PIN number of the client device in the
	field and click the "Start PIN" button.



The WPS encryption can be implemented only between your Router and another WPS-capable device.

Example of how to establish wireless connection using **WPS**. Please take the following steps:

Step 1. Choose menu "WLAN2 (2.4GHz) → WPS" to configure the setting for WPS. After the configuration, please click the "Apply Changes" button to save the settings.

Step 2. Add a new device.

If the wireless adapter supports Wi-Fi Protected Setup (WPS), you can establish a wireless connection between wireless adapter and AP using either Push Button Configuration (PBC) method or PIN method.



To build a successful connection by WPS, you should also do the corresponding configuration of the new device for WPS function.

A. By Push Button Configuration (PBC)

i. Click the "Start PBC" Button on the WPS page of the AP.

WPS Status:	Configured 💿 UnConfigured
	Reset to UnConfigured
Auto-lock-down state: unlocked	Unlock
Self-PIN Number:	15051813
Push Button Configuration:	Start PBC
STOP WSC	Stop WSC
Client PIN Number:	Start PIN

Figure 5-73 WPS-PBC - 2.4GHz-1

Start PBC successfully!
You have to run Wi-Fi Protected Setup in client within 2 minutes.
OK



- ii. Press and hold the WPS Button equipped on the adapter directly for 2 or 3 seconds. Or you can click the WPS button with the same function in the configuration utility of the adapter. The process must be finished within 2 minutes.
- iii. Wait for a while until the next screen appears. Click **OK** to complete the WPS configuration.

B. By PIN

If the new device supports Wi-Fi Protected Setup and the PIN method, you can add it to the network by PIN with the following two methods.

Method One: Enter the PIN of your Wireless adapter into the configuration utility of the AP

i. Enter the PIN code of the wireless adapter in the field behind **Client PIN Number** in the following figure and then click **Start PIN**.



The PIN code of the adapter is always displayed on the WPS configuration screen.

WPS Status:	O Configured 💿 UnConfigured
	Reset to UnConfigured
Auto-lock-down state: unlocked	Unlock
Self-PIN Number:	15051813
Push Button Configuration:	Start PBC
STOP WSC	Stop WSC
Client PIN Number:	Start PIN

Figure 5-75 WPS-PIN - 2.4GHz-1

Applied WPS PIN successfully!
You have to run Wi-Fi Protected Setup within 2 minutes.
ОК

Figure 5-76 WPS-PIN – 2.4GHz-2

ii. For the configuration of the wireless adapter, please choose the option that you want to enter PIN into the AP (Enrollee) in the configuration utility of the WPS and click Next until the process finishes.

Method Two: Enter the PIN of the AP into the configuration utility of your Wireless adapter

i. Click the "Start PBC" Button on the WPS page of the AP. Get the Current PIN code of the AP in WPS page (each AP has its unique PIN code).

WPS Status:	O Configured UnConfigured	
	Reset to UnConfigured	
Auto-lock-down state: unlocked	Unlock	
Self-PIN Number:	15051813 Enter this PIN into the wireless adapter's configuration p	age.
Push Button Configuration:	Start PBC	
STOP WSC	Stop WSC	
Client PIN Number:	Start PIN	

Figure 5-77 WPS-PIN - 2.4GHz-3

 For the configuration of the wireless adapter, please choose the option that you want to enter the PIN of the AP (Registrar) in the configuration utility of the Wireless adapter and enter it into the field. Then click Next until the process finishes.

5.4.9 Schedule

Wireless Schedules will enable or disable your wireless access at a set time based on your predefined schedule. This feature is often used for restricting access to all users (such as children, employees and guests) during specific times of the day for parental control or security reasons.

Choose menu "WLAN2 (2.4GHz) \rightarrow Schedule" to configure the schedule rule of enabling wireless function. After the configuration, please click the "Apply Changes" button to save the settings.



Figure 5-78 Schedule – 2.4GHz



When setting the Wireless Schedule, it is important to ensure that your **System Clock** settings have been configured. If not, your Wireless Schedule will not function correctly.

5.5 Management

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



Figure 5-79 Management – Main Menu

5.5.1 Status

You can use this function to realize the instantaneous information of the Wireless AP. The Information displayed here may vary on different configurations.

Choose menu "Management \rightarrow Status" to show the current status and some basic settings of the WDAP-C7200AC.

System	
Uptime	0day:1h:28m:36s
Firmware Version	WDAP-C7200AC_v20140425
Build Time	Wed Mar 5 21:16:12 CST 2014
Wireless 1 Configuratio	n
Mode	AP
Band	5 GHz (A+N+AC)
SSID	Planet AP 5G
Channel Number	149
Encryption	WPA2
BSSID	00:30:4f:77:88:9a
Associated Clients	0
Wireless 2 Configuratio	D
Mode	AP
Band	2.4 GHz (B+G+N)
SSID	Planet AP 2.4G
Channel Number	11
Encryption	WPA2
BSSID	00:30:4f:77:88:9b
Associated Clients	0
LAN Configuration	
Attain IP Protocol	Fixed IP
IP Address	192.168.1.253
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.254
DHCP Server	Disabled
MAC Address	00:30:4f:77:88:99

Figure 5-80 Status

5.5.2 Statistics

Choose menu "Management → Statistics" to show the packet counters for transmission and reception regarding wireless and Ethernet network.

This page shows the pack networks.	et counters for transmiss	ion and reception r	egarding to wireless and Ethern
	Sent Packets	647	
wireless I LAN	Received Packets	23482	
Wireless 1 Repeater	Sent Packets	594	
LAN	Received Packets	3032	
Wineless 2 LAN	Sent Packets	2161	
WIFEIESS 2 LAIN	Received Packets	33980	
Ethornot I AN	Sent Packets	0	
Ethernet LAIN	Received Packets	0	

Figure 5-81 Statistics

The page includes the following fields:

Object	Description
Wireless LAN	It shows the statistic count of sent packets on the wireless LAN interface.
Sent Packets	
Wireless LAN	It shows the statistic count of received packets on the wireless LAN interface.
Received Packets	
Ethernet WAN	It shows the statistic count of sent packets on the Ethernet WAN interface.
Sent Packets	
Ethernet WAN	It shows the statistic count of received packets on the Ethernet WAN interface.
Received Packets	
Refresh	Click the refresh the statistic counters on the screen.

5.5.3 NTP Settings

This section assists you in setting the Wireless AP's system time. You can either select to set the time and date manually or automatically obtain the GMT time from Internet.

Choose menu "**Management** \rightarrow **NTP Settings**" to configure the system time. You can also maintain the system time by synchronizing with a public time server over the Internet. After the configuration, please click the "**OK**" button to save the settings.



The configured time and date settings are lost when the Wireless AP is powered off.

	(N)	
VTP Server	Internet	NTP Client
`urrent Time :	2014 / 3 / 6 (YYYY/MM/DD) 1 : 13 : 46 (hh:mm:ss)	
Current Time :	2014 / 3 / 6 (YYYY/MM/DD) 1 : 13 : 46 (hh:mm:ss) Copy Computer Time	
Current Time : Time Zone Select :	2014 / 3 / 6 (YYYY/MM/DD) 1 : 13 : 46 (hh:mm:ss) Copy Computer Time (GMT-08:00)Pacific Time (US & Canada); Tijuana	*
Current Time : Time Zone Select : Automatically Adj	2014 / 3 / 6 (YYYY/MM/DD) 1 : 13 : 46 (hh:mm:ss) Copy Computer Time (GMT-08:00)Pacific Time (US & Canada); Tijuana ust Davlight Saving	*
Current Time : Time Zone Select : Automatically Adjuint Enable NTP client NTP server :	2014 / 3 / 6 (YYYY/MM/DD) 1 : 13 : 46 (hh:mm:ss) Copy Computer Time (GMT-08:00)Pacific Time (US & Canada); Tijuana ust Davlight Saving update	*

Figure 5-82 Time Zone Settings

The page includes the following fields:

Object	Description
Current Time	Input current time manually.
	You can click "Copy Computer Time" button to copy the PC's current time to
	the AP.
Time Zone Select	Select the time zone of the country you are currently in. The router will set its
	time based on your selection.
Automatically Adjust	Select the time offset if your location observes daylight saving time
Daylight Saving	
Enable NTP client	Check to enable NTP update. Once this function is enabled, AP will
update	automatically update current time from NTP server.
NTP Server	User may select prefer NTP sever or input address of NTP server manually.



If the AP loses power for any reason, it cannot keep its clock running, and will not have the correct time when it is started again. To maintain correct time for schedules and logs, either you must enter the correct time after you restart the AP, or you must enable the NTP Server option.

5.5.4 Schedule Reboot

This page allows you to enable and configure system reboot schedule. The device can regularly reboot according to the reserved time when connecting to the Internet.

ime when connecting to the In	e and configure system reboot schedule. The device can regularly reboot according to the reserved iternet.
	Automatically Reboot Every Friday 23:00 System Reboot
Schedule Reboot Setting: Reboot Time:	© Enable © Disable (Hour: Minute as: 02:23 or 13:14)
	Weekday
Reboot Plan:	

Figure 5-83 Schedule Reboot

The page includes the following fields:

Object	Description
Schedule Reboot	Enable or disable the Schedule Report function
Setting	
Reboot Time	Enter the Reboot Time (24-hour format) to enable this function to take effect.
Reboot Plan	There are two Reboot Plans supported in the AP:
	Weekday: select this option to let the device reboot automatically according
	to the reserved time in one or more days of a week.
	Every day: select this option to let the device reboot automatically according to the reserved time every day.

Weekday	Check one or more days to let the device auto reboot on schedule.
	When choosing "Every day" as your reboot plan, the "Weekday" will be
	grayed out (disabled), which means Every day will auto reboot at the time
	that you scheduled.



- 1. This setting will only take effect when the Internet connection is accessible and the GMT time is configured correctly.
- 2. You must select at least one day when choosing "Weekday" as your reboot plan.
- 3. When choosing "**Every day**" as your reboot plan, the "**Weekday**" will be grayed out (disabled), which means **Every day** will auto reboot at the time that you schedule.
- Example of how to configure **Schedule Reboot**. Please take the following steps:

Before configured schedule reboots, please ensure the Internet connection is accessible and the GMT time is configured correctly according to **NTP Settings** page.

Step 1. Select the Schedule Reboot Setting checkbox.

Step 2. Enter the Reboot Time (24-hour format) to enable this function to take effect. For example, if you want this function to work at 23:00 every Sunday, choose "Weekday" in the Reboot Plan field.





Step 3. Click the "Apply Changes" button to take this function effect.

5.5.5 LOG

Choose menu "**Management** \rightarrow **LOG**" to configure the settings of system log. You can check the box of the items you want to record it in the log. After the configuration, please click the "Apply" button to save the settings.

This p	age c	an be used to s	et remote log server and show the system log.	
₩ E	nabl	le Log		
	Sva	stem all	Wireless	
37.04				
	Ena	able Remote I	.og Log Server IP Address:	
Δ.	only	Changes	1	
	opry	Unanges	J.	
Mar	6	02:01:52	wlan0-vxd: Open and authenticated	1
Mar	6	02:01:52	wlan0-vxd: Roaming	
Mar	6	02:01:52	wlan0-vxd: WPA-none PSK authentication in progress	
Mar	6	02:01:52	wlan0-vxd: Open and authenticated	
Mar	6	02:01:52	Register Realtek Simple Config	
Mar	6	02:01:52	[phy RF6052 Config ParaFile][RadioA 8812 n ultra hp]	
Mar	6	02:01:52	[phy RF6052 Config ParaFile] [RadioB 8812 n ultra hp]	
Mar	6	02:01:52	<=== FirmwareDownload8812()	
Mar	6	02:01:52	[5G] : AntDiv Type = CG TRX HW ANTDIV	
Mar	6	02:01:52	Register Realtek Simple Config	
Mar	6	02:01:52	Register Realtek Simple Config	
Mar	6	02:01:52	Register Realtek Simple Config	
	6	02:02:07	wlan0-vxd: WPA-none PSK authentication in progress	
Mar	-	02:02:07	wlan0-vxd: Open and authenticated	
Mar Mar	0			

Figure 5-85 System Log

The page includes the following fields:

Object	Description
Enable Log	Check to enable log function.
System all	Check this option to display all the system logs.
Wireless	Check this option to display only the logs related to wireless module.
Enable Remote Log	Enable this option if you have a syslog server currently running on the LAN and
	wish to send log messages to it.
Log Server IP	Enter the LAN IP address of the Syslog Server.
Address	
Refresh	Click this button to update the log.
Clear	Click this button to clear the current log.

5.5.6 Upgrade Firmware

This page allows you upgrade the Access Point firmware to new version. Please note, do not power off the device during the upload because it may crash the system.

Choose menu "Management \rightarrow Upgrade Firmware" to upgrade the firmware of the WDAP-C7200AC. Select the new firmware file downloaded from the PLANET website and then click "Upload" button to upgrade it.

Upgrade Firmware	
This page allows you upgrade the Act the device during the upload because i	cess Point firmware to new version. Please note, do not power off t may crash the system.
Software Version: Select File:	WDAP-C7200AC_v20140425
Upload Reset	

Figure 5-86 Upgrade Firmware

The page includes the following fields:

Object	Description
Select File	Browse and select file you want to upgrade and press Upload to perform
	upgrade.
	Please wait till the related information is shown on the screen after
	upgrade is finished.



Do not disconnect the Wireless AP from your management PC (the PC you use to configure the device) or power off it during the upgrade process; otherwise, it may be permanently damaged. The Wireless AP will restart automatically when the upgrade process, which takes several minutes, to complete.

5.5.7 Reload Settings

Choose menu "Management → Reload Settings" to back up or reset the configuration of the WDAP-C7200AC.

Once you have configured the Wireless AP the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your Wireless AP in case the device is restored to factory default settings.

Save/Reload Sett	ings		
This page allows you save curren previously. Besides, you could r	nt settings to a file or re eset the current configu	load the settings from the file ration to factory default.	which was saved
ten station in sea			
Save Settings to File:	Save		
Load Settings from File:		Browse	Upload
Reset Settings to Default:	Reset		

Figure 5-87 Save/Reload Settings

The page includes the following fields:

Object	Description
Save Settings to File	Click the "Save" button to back up the configuration of the
	WDAP-C7200AC and then save the "config.dat" in your computer.
Load Settings from File	Select the configuration file of the WDAP-C7200AC and then click the
	"Upload" button to reload the configuration back into the
	WDAP-C7200AC.
Reset Settings to	Click the "Reset" button to reset all settings of the WDAP-C7200AC to
Default	factory default.
	Factory Default Settings:
	User Name: admin
	Password: admin
	IP Address: 192.168.1.253
	Subnet Mask: 255.255.255.0
	Default Gateway: 192.168.1.254
	DHCP: Disabled
	5GHz SSID: Planet AP 5G
	2.4GHz SSID: Planet AP 2.4G
	Wireless Security: None



To activate your settings, you need to reboot the Wireless AP after you reset it.

5.5.8 Password

To ensure the Wireless AP's security, you will be asked for your password when you access the Wireless AP's Web-based Utility. The default user name and password are "admin". This page will allow you to add or modify the user name and password.

Choose menu "Management → User Management" to change the user name and password which is inputted to access the web UI of the WDAP-C7200AC.

Password Setup	
This page is used to set the a password will disable the pro	ccount to access the web server of Access Point. Empty user name and otection.
User Name:	
New Password:	
Confirmed Password:	
Apply Changes	Reset

Figure 5-88 Password Setup

The page includes the following fields:

Object	Description
User Name	Enter user name.
New Password	Input password for this user.
Confirmed Password	Confirm password again.



For the sake of security, it is highly recommended that you change default login password and user name.

5.5.9 LED Control

This section allows the user to determine the router packets are talking to particular host.

LED Contro	ol	- a monore energy setting	
This is a LED control	function, and it is co	ntrol your LED On, Off or Blink.	
Powerl	ED ON	Position LED ON	Position LED Blink
	\mathbf{D}		*
Power LED:	Ooff ⊙0	1	
Position LED:	⊙ Off ○ O	n O Blink	
OK			

Figure 5-89 LED Control

The page includes the following fields:

Object	Description
Power LED	Click On or Off to turn on/off the Power LED.
Position LED	The LED to detect and identify the AP.
	1) Position LED on: the position LED is on.
	2) Position LED blink: the position LED blinks continuously.
	2) Position LED off: the position LED is off.

5.5.10 Logout

To logout the WDAP-C7200AC, please select "Logout" from the left-side menu.

Logout		
This page is used to logout.		
Do you want to logout ?		
Apply Change		

Figure 5-90 Logout

Chapter 6. Quick Connection to a Wireless Network

In the following sections, the default SSID of the WDAP-C7200AC is configured to "default".

6.1 Windows XP (Wireless Zero Configuration)

Step 1: Right-click on the wireless network icon displayed in the system tray



Figure 6-1 System Tray – Wireless Network Icon

Step 2: Select [View Available Wireless Networks]

Step 3: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [Connect] button

Network Tasks	Choose a wireless network	
🚭 Refresh network list	Click an item in the list below to connect to a <u>wi</u> reless network in range or to get information.	more
Set up a wireless network for a home or small office	((p))	
Related Tasks	((p))	
Change the order of preferred networks	Security-enabled wireless network	
Change advanced settings	(() default Security-enabled wireless network (WPA) To connect to this network, click Connect. You might need to enter additional information.	littae
	((q))	-10 ×

Figure 6-2 Choose a wireless network

Step 4: Enter the encryption key of the Wireless AP

- (1) The Wireless Network Connection box will appear
- (2) Enter the encryption key that is configured in section 5.3.3
- (3) Click the [Connect] button

The network 'PLANET' req	juires a network key (also called a WEP key or WPA key).	
A network key helps prev	ent unknown intruders from connecting to this network.	
Type the key, and then cl	lick Connect.	
Network <u>k</u> ey:	•••••	

Figure 6-3 Enter the network key

Step 5: Check if "Connected" is displayed

Network Tasks	Choose a wireless network	
😴 Refresh network list	Click an item in the list below to connect to a <u>w</u> ireless network information.	n range or to get more
Set up a wireless network for a home or small office	((p)) default	Connected ☆ 🖆
Related Tasks	((q))	
Learn about wireless networking	Security-enabled wireless network (WPA)	•000U
Change the order of preferred networks	Security-enabled wireless network	liter
Change advanced settings	((p))	••000
	((p)) Unsecured wireless network	0000
	((p))	

Figure 6-4 Choose a wireless network -- Connected



Some laptops are equipped with a "Wireless ON/OFF" switch for the internal wireless LAN. Make sure the hardware wireless switch is switched to "ON" position.

6.2 Windows 7 (WLAN AutoConfig)

WLAN AutoConfig service is built-in in Windows 7 that can be used to detect and connect to wireless network. This built-in wireless network connection tool is similar to wireless zero configuration tool in Windows XP.

Step 1: Right-click on the network icon displayed in the system tray



Figure 6-5 Network icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select SSID [default]
- (2) Click the [Connect] button



Figure 6-6 WLAN AutoConfig



If you will be connecting to this Wireless AP in the future, check [Connect automatically].

Step 4: Enter the encryption key of the Wireless AP

- (1) The Connect to a Network box will appear
- (2) Enter the encryption key that is configured in section 5.3.3
- (3) Click the [OK] button

Connect to a Netw	rork
Type the netwo	rk security key
Security key:	
	Hide characters
9	You can also connect by pushing the button on the router.
	OK Cancel

Figure 6-7 Type the network key

Y Connect to a Network	×
Connecting to default	

Figure 6-8 Connecting to a Network

Step 5: Check if "Connected" is displayed

Currently connected to: default Internet access	<u>f</u> 2	•
Dial-up and VPN	^	
Office VPN	0	-
Wireless Network	^	
default	Connected	
-91-101		
Mad		
omp	311	
08-668.0	311	
Seat-st.	lin.	Ŧ
Open Network and	Sharing Center	

Figure 6-9 Connected to a Network

6.3 Mac OS X 10.x

In the following sections, the default SSID of the WDAP-C7200AC is configured to "default".

Step 1: Right-click on the **network icon** displayed in the system tray

The AirPort Network Connection menu will appear



Figure 6-10 Mac OS – Network icon

Step 2: Highlight and select the wireless network (SSID) to connect

- (1) Select and SSID [default]
- (2) Double-click on the selected SSID



Figure 6-11 Highlight and select the wireless network

Step 4: Enter the encryption key of the Wireless AP

- (1) Enter the encryption key that is configured in section 5.3.3
- (2) Click the [OK] button

1	password.	"default" requires a WPA
	Password:	•••••
		Show password Memember this network
		Cancel OK

Figure 6-12 Enter the Password



Step 5: Check if the AirPort is connected to the selected wireless network.

If "Yes", then there will be a "check" symbol in the front of the SSID.

	-	* 🛜	۰ 🔳		Q.
AirPort: On Turn AirPort Off		1.00			
√default		19			
No. 1					
		((:-			
		€ 🛜			
ALC: N. M. CAR					
10000 (million)		((+			
THE REAL PROPERTY OF THE REAL					
and the second se				State.	
1000 (C)					
jow Terrel					
Terry Relationship					
Join Other Network					
Create Network Open Network Preference	s				
	100				

Figure 6-13 Connected to the Network

There is another way to configure the MAC OS X Wireless settings:



Step 1: Click and open the [System Preferences] by going to Apple > System Preference or Applications



Step 2: Open Network Preference by clicking on the [Network] icon

00			System	Preferences			
< • •	Show All					Q	
Personal	Desktop & Screen Saver	Dock	Exposé & Spaces	Language & Text	Security	Spotlight	
Hardware	Displays	Energy Saver	Keyboard	Mouse	Trackpad	Print & Fex	Sound
nteraet &	Wireless O Network	Blattoots	Sharing				
System							
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	() Time Machine	Universal Access
Other MacR/SE							

Figure 6-15 System Preferences -- Network

Step 3: Check Wi-Fi setting and select the available wireless network

- (1) Choose the AirPort on the left-menu (make sure it is ON)
- (2) Select Network Name [default] here

If this is the first time to connect to the Wireless AP, it should show "Not network selected".

	Network	0
Show All		Q
L	ocation: Automatic	
USB Ethernet	Status: On	(Turn AirPort Off)
802.11dapter	AirPort is turr a network.	ned on but is not connected to
AirPort 🛜	Network Name ✓ No networ	k selected
Home VPN		() ();
	default	<u> </u>
	all and	
		· ·
	1.00 B	A (
	in the second	
		₽ 🤤
	Join Other Create Net	Network work
+ - \$-	Show AirPort status in menu b	ar Advanced) (?

Figure 6-16 Select the Wireless Network

6.4 iPhone / iPod Touch / iPad

In the following sections, the default SSID of the WDAP-C7200AC is configured to "default".

Step 1: Tap the [Settings] icon displayed in the home screen



Figure 6-17 iPhone – Settings icon

Step 2: Check Wi-Fi setting and select the available wireless network

- (3) Tap [General] \ [Network]
- (4) Tap [Wi-Fi]

If this is the first time to connect to the Wireless AP, it should show "Not Connected".

iPad	10:35 AM	(a) 100% (m)
Settings	General	
Airplane Mode OFF	-	
Wi-Fi Not Connected	About	>
Notifications On	Usage	>
Carrier	Sounds	>
🔣 Cellular Data		
🙀 Brightness & Wallpaper	Network	>
Picture Frame	Bluetooth	Off >
General	Location Services	On >
Mail, Contacts, Calendars	Spotlight Search	>
Safari		

Figure 6-18 Wi-Fi Setting

110

Pad	10:35 AM	④ 100%
Settings	General	Network
Airplane Mode	-	
WI-FI Not Connected	VPN	Not Connected >
On Notifications	Wi-Fi	Not Connected >
Carrier		
Cellular Data		
Brightness & Wallpaper		
Picture Frame		
General		
🔄 Mail, Contacts, Calendars		
Mafari Safari		

Figure 6-19 Wi-Fi Setting - Not Connected

- Step 3: Tap the target wireless network (SSID) in "Choose a Network..."
 - (1) Turn on Wi-Fi by tapping "Wi-Fi"
 - (2) Select SSID [default]

iPad	11:23 PM	🕒 76 % 🔳
Settings	Network Wi-Fi Network	s
Airplane Mode OFF	-	
Wi-Fi Not Connected	Wi-Fi	ON
Notifications On	Choose a Network	
Location Services On	default	
Cellular Data	Other	>
🙀 Brightness & Wallpaper	Ask to Join Networks	ON
Picture Frame	Known networks will be joined au	tomatically. If no
General	before joining a new ne	etwork.



Step 4: Enter the encryption key of the Wireless AP

- (1) The password input screen will be displayed
- (2) Enter the encryption key that is configured in section 5.3.3
- (3) Tap the [Join] button

Pad 🕆		11:20 PM					76% BD
Settings	Sec. 1	anteriari.	Wi-	El.Natvi	orks		
Airplane Mode	OFF						
🔄 WI-FI	CA8-4	Wi-Fi					
Notifications	Qn	Choose a	Network.				
Location	Enter	CAL-	or Methods"	_		49	•
Collular Concel	E	nter Passi	word			19	0
Brightne		anna Li recolitica				18	5
Picture Password		****				- 12	in the second
General							10
Mail, Co						11	
Safari							
tek iPod							
Video							
Photos							
- Notes							
Store							
Appr							
1 2 3	4 5	6	7	8	9	0	G
• 7 :	;	()	\$	&	@	Γ	Join
#+= undo		?	1				8+=
ABC				Ĩ	ABC		Ţ

Figure 6-21 iPhone -- Enter the Password

Step 5: Check if the device is connected to the selected wireless network.

iPad	11:25 PM	75% mD	
Settings	Network WI-FI Networks		
Airplane Mode OFF			
S Wi-Fi default	Wi-Fi	ON	
Notifications On	Choose a Network		
Location Services On	✓ default	₽ 🗢 📀	
🕎 Cellular Data	Other	>	
🙀 Brightness & Wallpaper	Ask to Join Networks	ON	
Picture Frame	Known networks will be joined automatically. If no known networks are available, you will be asked before joining a new network.		
General			

Figure 6-22 iPhone -- Connected to the Network

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Appendix A: Planet Smart Discovery Utility

To easily list the WDAP-C7200AC in your Ethernet environment, the Planet Smart Discovery Utility from user's manual CD-ROM is an ideal solution.

The following installation instructions guide you to running the Planet Smart Discovery Utility.

Step 1: Deposit the Planet Smart Discovery Utility in administrator PC.

Step 2: Run this utility and the following screen appears.



Step 3: Press **"Refresh"** button for the current connected devices in the discovery list as shown in the following screen:

J	🧈 PLANET Smart Discovery Lite								
Fi	File Option Help								
			U Refre	sh	🗙 Exit			9	PLANET Networking & Communication
	MAC Address	Device Name	Version	DevicelP	NewPassword	IP Address	NetMask	Gateway	Description
1	00-30-4F-63-54-5C	WDAP-C7200A0	WDAP-C7200A0	192.168.1.253		192.168.1.253	255.255.255.0	192.168.1.254	Planet
Select Adapter : 192.168.1.100 (EC:A8:6B:D6:99:C4)									
De	Device : WDAP-C7200AC (00-30-4F-63-54-5C) Get Device Information done.								

Step 3: Press "Connect to Device" button and then the Web login screen appears.



The fields in white background can be modified directly and then you can apply the new setting by clicking the "**Update Device**" button.

Appendix B: Troubleshooting

If you find the AP is working improperly or stop responding to you, please read this troubleshooting first before contacting the dealer for help. Some problems can be solved by yourself within a very short time.

Scenario	Solution		
The AP is not responding to	a.	Please check the connection of the power cord and the	
me when I want to access it		Ethernet cable of this AP. All cords and cables should be	
by Web browser.		correctly and firmly inserted to the AP.	
		If all LED on this AP is off, please check the status of	
		power adapter, and make sure it is correctly powered.	
	C.	You must use the same IP address section which AP uses	
	Ь	Are you using MAC or IP address filter? Try to connect	
	.	the AP by another computer and see if it works: if not	
		please reset the AP to the factory default settings	
		(pressing 'reset' button for over 7 seconds)	
	e	Use the Smart Discovery Tool to see if you can find the	
	0.	AP or not.	
	f.	If you did a firmware upgrade and this happens, contact	
		your dealer of purchase for help.	
	g.	If all the solutions above don't work, contact the dealer	
		for help.	
I can't get connected to the	a.	Go to 'Status' -> 'Internet Connection' menu on the router	
Internet.		connected to the AP, and check Internet connection	
		status.	
	b.	Please be patient, sometimes Internet is just that slow.	
	C.	If you've connected a computer to Internet directly	
		before, try to do that again, and check if you can get	
		connected to Internet with your computer directly	
		attached to the device provided by your Internet service provider.	
	d.	Check PPPoE / L2TP / PPTP user ID and password	
		entered in the router's settings again.	
	e.	Call your Internet service provider and check if there's	
		something wrong with their service.	
	f.	If you just can't connect to one or more website, but you	
		can still use other internet services, please check	
		URL/Keyword filter.	
	g.	Try to reset the AP and try again later.	
	h.	Reset the device provided by your Internet service	
		provider too.	

	i.	Try to use IP address instead of host name. If you can	
		use IP address to communicate with a remote server,	
		but can't use host name, please check DNS setting.	
I can't locate my AP by my	a.	'Broadcast ESSID' set to off?	
wireless device.	b.	Both two antennas are properly secured.	
	C.	Are you too far from your AP? Try to get closer.	
	d.	Please remember that you have to input ESSID on your	
		wireless client manually, if ESSID broadcast is disabled.	
File downloading is very slow	a.	Are you using QoS function? Try to disable it and try	
or breaks frequently.		again.	
	b.	Internet is slow sometimes. Please be patient.	
	C.	Try to reset the AP and see if it's better after that.	
	d.	Try to know what computers do on your local network. If	
		someone's transferring big files, other people will think	
		Internet is really slow.	
	e.	If this never happens before, call you Internet service	
		provider to know if there is something wrong with their	
		network.	
I can't log into the web	a.	Make sure you're connecting to the correct IP address of	
management interface; the		the AP!	
password is wrong.	b.	Password is case-sensitive. Make sure the 'Caps Lock'	
		light is not illuminated.	
	C.	If you really forget the password, do a hard reset.	
The AP becomes hot	a.	This is not a malfunction, if you can keep your hand on	
		the AP's case.	
	b.	If you smell something wrong or see the smoke coming	
		out from AP or A/C power adapter, please disconnect	
		the AP and power source from utility power (make sure	
		it's safe before you're doing this!), and call your dealer of	
		purchase for help.	

Appendix C: Glossary

- 802.11ac 802.11ac is a wireless networking standard in the 802.11 family (which is marketed under the brand name Wi-Fi), developed in the IEEE Standards Association process, providing high-throughput wireless local area networks (WLANs) on the 5 GHz band.
- 802.11n 802.11n builds upon previous 802.11 standards by adding MIMO (multiple-input multiple-output). MIMO uses multiple transmitter and receiver antennas to allow for increased data throughput via spatial multiplexing and increased range by exploiting the spatial diversity, perhaps through coding schemes like Alamouti coding. The Enhanced Wireless Consortium (EWC) [3] was formed to help accelerate the IEEE 802.11n development process and promote a technology specification for interoperability of next-generation wireless local area networking (WLAN) products.
- 802.11a 802.11a was an amendment to the IEEE 802.11 wireless local network specifications that defined requirements for an orthogonal frequency division multiplexing (OFDM) communication system. It was originally designed to support wireless communication in the unlicensed national information infrastructure (U-NII) bands (in the 5–6 GHz frequency range) as regulated in the United States by the Code of Federal Regulations, Title 47, Section 15.407.
- 802.11b The 802.11b standard specifies a wireless networking at 11 Mbps using direct-sequence spread-spectrum (DSSS) technology and operating in the unlicensed radio spectrum at 2.4GHz, and WEP encryption for security. 802.11b networks are also referred to as Wi-Fi networks.
- 802.11g specification for wireless networking at 54 Mbps using direct-sequence spread-spectrum (DSSS) technology, using OFDM modulation and operating in the unlicensed radio spectrum at 2.4GHz, and backward compatibility with IEEE 802.11b devices, and WEP encryption for security.
- DDNS (Dynamic Domain Name System) The capability of assigning a fixed host and domain name to a dynamic Internet IP Address.
- DHCP (Dynamic Host Configuration Protocol) A protocol that automatically configure the TCP/IP parameters for the all the PC(s) that are connected to a DHCP server.
- DMZ (Demilitarized Zone) A Demilitarized Zone allows one local host to be exposed to the Internet for a special-purpose service such as Internet gaming or videoconferencing.
- DNS (Domain Name System) An Internet Service that translates the names of websites into IP addresses.
- > **Domain Name -** A descriptive name for an address or group of addresses on the Internet.
- DSL (Digital Subscriber Line) A technology that allows data to be sent or received over existing traditional phone lines.
- > ISP (Internet Service Provider) A company that provides access to the Internet.

- > MTU (Maximum Transmission Unit) The size in bytes of the largest packet that can be transmitted.
- NAT (Network Address Translation) NAT technology translates IP addresses of a local area network to a different IP address for the Internet.
- PPPoE (Point to Point Protocol over Ethernet) PPPoE is a protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.
- SSID A Service Set Identification is a thirty-two character (maximum) alphanumeric key identifying a wireless local area network. For the wireless devices in a network to communicate with each other, all devices must be configured with the same SSID. This is typically the configuration parameter for a wireless PC card. It corresponds to the ESSID in the wireless Access Point and to the wireless network name.
- WEP (Wired Equivalent Privacy) A data privacy mechanism based on a 64-bit or 128-bit or 152-bit shared key algorithm, as described in the IEEE 802.11 standard.
- Wi-Fi A trade name for the 802.11b wireless networking standard, given by the Wireless Ethernet Compatibility Alliance (WECA, see http://www.wi-fi.net), an industry standards group promoting interoperability among 802.11b devices.
- WLAN (Wireless Local Area Network) A group of computers and associated devices communicate with each other wirelessly, which network serving users are limited in a local area.

EC Declaration of Conformity

English	Hereby, PLANET Technology Corporation , declares that this 11ac Wireless AP is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.	Lietuviškai	Šiuo PLANET Technology Corporation, , skelbia, kad 11ac Wireless AP tenkina visus svarbiausius 1999/5/EC direktyvos reikalavimus ir kitas svarbias nuostatas.
Česky	Společnost PLANET Technology Corporation, tímto prohlašuje, že tato 11ac Wireless AP splňuje základní požadavky a další příslušná ustanovení směrnice 1999/5/EC.	Magyar	A gyártó PLANET Technology Corporation , kijelenti, hogy ez a 11ac Wireless AP megfelel az 1999/5/EK irányelv alapkövetelményeinek és a kapcsolódó rendelkezéseknek.
Dansk	PLANET Technology Corporation, erklærer herved, at følgende udstyr 11ac Wireless AP overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF	Malti	Hawnhekk, PLANET Technology Corporation, jiddikjara li dan 11ac Wireless AP jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC
Deutsch	Hiermit erklärt PLANET Technology Corporation , dass sich dieses Gerät 11ac Wireless AP in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMWi)	Nederlands	Hierbij verklaart , PLANET Technology orporation, dat 11ac Wireless AP in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG
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