[Profile] The Station Profile page shows the settings and current operation status of the station.

<u>all close all</u> ireless 11N Router Operation Mode	Stati	ion Pr (atus page :	ofile shows the sett	ings and cur	rent operation statu	us of the Statio	ns
] Quick start] Internet Settings							
Profile	Pofile Li	ist	COLD	Channel	Authoptiontics	Enonation	blobuork Tur -
Link Status	PrPr	ROF001	RT2561_1	Auto	OPEN	NONE	Infrastructure
Advance Advance QoS IN Configurations Firewall Administration		Add		Delete	Edit		Activate

[Link Status] The Station Link Status page shows the settings and current operation status of the Station.

11 .1			
en all <u>close all</u>	Station Link Stat	us	
Wireless 11N Router Operation Mode Quick start Internet Settings	The Status page shows the	settings and current operation st	atus of the Station.
🔄 Wireless Settings	Link Status		
Profile	Status	RT2561_1 <> 00-06-	4F-17-93-28
	Extra Info	Link is Up	
- D Statistics	Channel	1 <> 2412000 KHz ; 0	Central Channel: 1
- 🗋 Advance	Link Speed	Tx(Mbps) 54.0	Rx(Mbps) 54.0
QoS	Throughput	Tx(Kbps) 0.0	Rx(Kbps) 54.0
WPS	Link Quality	Good 100%	
🔁 Firewall	Signal Strength 1	Good 80%	
🚞 Administration	Signal Strength 2	Good 90%	
	Signal Strength 3	Good 95%	
	Noise Level	Strength 96%	
	HT		
	BW	20	
	GI	long	
	STBC	none	
	MCS	7	
	SNR0	26	
	SNP1	/078107	

[Site Survey] Station Site Survey page can shows information of APs nearby, you can choose one of these APs connecting or adding it to profile.

en all <u>close all</u>	S	tation Site Surv	ey					
/ireless 11N Router Operation Mode Quick start] Internet Settings] Wireless Settings	Sit or	e survey page shows info adding it to profile.	rmation	of APs	nearby. Y	ou may choi	ose one of these	APs connecting
	Site	Survey	11 - Har		110 - 21	11 J		
Site Survey Statistics		SSID	BSSID	RSSI	Channel	Encryption	Authentication	Network Type
 Advance QoS 11N Configurations 	0	8 RT2561_1	00-06- 4F-17- 93-28	100%	1	Not Use	OPEN	Infrastructure
WPS Firewall Administration	0	WR514VN_FTP_Server	00- 0C- 43-28- 80-00	100%	1	TKIP; AES	WPA-PSK; WPA2-PSK	Infrastructure
	0	testtest	00- 0C- 43-28- 80-D8	100%	9	TKIP; AES	WPA-PSK; WPA2-PSK	Infrastructure

For adding a profile, choose one AP and click "**Add Profile**". And you will see the below screen for AP profile configuration. Enter the necessary information and apply the settings.

Profile Name		PROF001
SSID		RT2561_1
Network Type		Infrastructure 👻
Power Saving I	Mode	 ⑦ CAM (Constantly Awake Mode) ⑦ Power Saving Mode
RTS Threshold	1	Used 2347
Fragment Thre	shold	Used 2346
Security Mode		OPEN 💌
Security Mode Wire Equivaler WEP Key Leng	nce Protection (WEP) th	OPEN
Security Mode Wire Equivaler WEP Key Leng WEP Key Entry	nce Protection (WEP) th Method	OPEN 64 bit (10 hex digits / 5 ascii keys) Hexadecimal
Security Mode Wire Equivaler WEP Key Leng WEP Key Entry	th Method WEP Key 1 :	OPEN
Security Mode Wire Equivaler WEP Key Leng WEP Key Entry	th Method WEP Key 1 : WEP Key 2 :	OPEN
Security Mode Wire Equivaler WEP Key Leng WEP Key Entry WEP Keys	th Method WEP Key 1 : WEP Key 2 : WEP Key 3 :	OPEN
Security Mode Wire Equivaler WEP Key Leng WEP Key Entry WEP Keys	th Method WEP Key 1 : WEP Key 2 : WEP Key 3 : WEP Key 4 :	OPEN

[Statistics] The Station Statistics page shows the settings and current operation status of the Station.

	s 11n Router Station Statistics	
Wireless 11N Router Operation Mode Quick start Internet Settings	The Status page shows the settings and current operati	on status of the Station.
Profile	Transmit Statistics	
	Frames Transmitted Successfully	122
Site Survey	Frames Transmitted Successfully Without Retry	88
Statistics	Frames Transmitted Successfully After Retry(s)	34
Advance	Frames Fail To Receive ACK After All Retries	0
11N Configurations	RTS Frames Sucessfully Receive CTS	0
WPS	RTS Frames Fail To Receive CTS	0
🗀 Firewall	Receive Statistics	
🔁 Administration	Frames Received Successfully	0
	Frames Received With CRC Error	21440
	Frames Dropped Due To Out-of-Resource	0
	Duplicate Frames Received	7
	Duplicate Frames Received	3

[Advance] The Station Advanced Configuration page shows the settings and current operation status of the station.

<u>all close all</u>	Station Advanced Co	onfigurations
ireless 11N Router Operation Mode Quick start Internet Settings	The Status page shows the setting	is and current operation status of the Station.
Wireless Settings	Advance Configuration	
📋 Profile 🗋 Link Status	Wireless Mode(Infra)	802.11 B/G/N mixed mode 💌
Site Survey	Country Region Code	11 B/G 0:CH1-11 V
Advance	B/G Protection	Auto 👻
QoS	Tx Rate	Auto
WPS Firewall	Tx Burst	
Administration	HT Physical Mode	
	HT	MM ○ GF
	BW	◯ 20
	GI	C Long O Auto
	MCS	Auto 💙
	RADI	O OFF Apply

Wireless Mode: Select wireless mode. 802.11B/G mix, 802.11B only, 802.11G only, 802.11N only, 802.11 GN mix mode ,and 802.11B/G/N mix modes are supported.

Country Region Code: The available channel differs from different countries. For example: USA (FCC) is channel 1-11, Europe (ETSI) is channel 1-13. The operating frequency channel will be restricted to the country user located before importing. If you are in different country, you have to adjust the channel setting to comply the regulation of the country. Supporting region code for this section has CH1-11, CH10-11, CH10-13, CH14, CH1-14, CH3-9, and CH5-13. Please refer to below Channel Classification and range, Country Channel list to

select your Country Region Code:	
----------------------------------	--

Country Name	Classification	Range	Country Name	Classification	Range
Argentina	0	CH1~11	Lebanon	1	CH1~13
Australia	1	CH1~13	Liechtenstein	1	CH1~13
Austria	1	CH1~13	Lithuania	1	CH1~13
Bahrain	1	CH1~13	Luxembourg	1	CH1~13
Belarus	1	CH1~13	Macedonia	1	CH1~13
Belgium	1	CH1~13	Malaysia	1	CH1~13
Bolivia	1	CH1~13	Mexico	0	CH1~11
Brazil	0	CH1~11	Morocco	1	CH1~13
Bulgaria	1	CH1~13	Netherlands	1	CH1~13
Canada	0	CH1~11	New Zealand	1	CH1~13
Chile	1	CH1~13	Nigeria	1	CH1~13
China	1	CH1~13	Norway	1	CH1~13
Colombia	0	CH1~11	Panama	1	CH1~13
Costa Rica	1	CH1~13	Paraguay	1	CH1~13
Croatia	1	CH1~13	Peru	1	CH1~13
Cyprus	1	CH1~13	Philippines	1	CH1~13
Czech Republic	1	CH1~13	Poland	1	CH1~13
Denmark	1	CH1~13	Portugal	1	CH1~13
Ecuador	1	CH1~13	Puerto Rico	1	CH1~13
Egypt	1	CH1~13	Romania	1	CH1~13
Estonia	1	CH1~13	Russia	1	CH1~13
Finland	1	CH1~13	Saudi Arabia	1	CH1~13
France	3	CH10~13	Singapore	1	CH1~13
France2	1	CH1~13	Slovakia	1	CH1~13
Germany	1	CH1~13	Slovenia	1	CH1~13
Greece	1	CH1~13	South Africa	1	CH1~13
Hong Kong	1	CH1~13	South Korea	1	CH1~13
Hungary	1	CH1~13	Spain	2	CH10~11
Iceland	1	CH1~13	Sweden	1	CH1~13
India	1	CH1~13	Switzerland	1	CH1~13
Indonesia	1	CH1~13	Taiwan	0	CH1~11
Ireland	1	CH1~13	Thailand	1	CH1~13
Israel	6	CH3~9	Turkey	1	CH1~13
Italy	1	CH1~13	United Arab Emirates	1	CH1~13
Japan	5	CH1~14	United Kingdom	1	CH1~13
Japan2	4	CH14~14	United States of America	0	CH1~11
Japan3	1	CH1~13	Uruguay	1	CH1~13
Jordan	3	CH10~13	Venezuela	1	CH1~13
Kuwait	1	CH1~13	Yugoslavia	0	CH1~11
Latvia	1	CH1~13			and the second stream

Figure 1: Country Channel list

B/G Protection: User can choose from Auto, On, and Off

- → Auto: STA will dynamically change as AP announcement
- → ON: Always send frame with protection.
- → Off: Always send frame without protection.

TX Rate: Manually force the Transmit using selected rate. Default is auto.

Tx Burst: Frame burst mode.

HT Physical Mode: Configure HT Status in use, containing HT(MM or GF), BW(20 or Auto), GI(Long or Auto), and MCS(0~15, 32, or Auto) settings.

[QoS] The QoS configuration page can allow you to configure WMM and Direct Link settings

oen all <u>close all</u>	Station Advanced C	configurations
Wireless 11N Router Deration Mode Uuick start Internet Settings	The Status page shows the settin	ngs and current operation status of the Station.
🔁 Wireless Settings	Qos Configuration	
Profile Link Status	VVMM	Enable
Site Survey	WMM Power Saving	Enable
	PS Mode	AC_BE AC_BK AC_VI AC_VO
QoS	Direct Link Setup	Enable
WPS	1.	Apply
- Administration	Direct Link Setup	
	MAC Address	
	Timeout Value	sec
		DLS Apply
	DLS Status	
	MAC Address	Timeout
		Tear Down

(1) QoS Configuration

WMM: Enabe Wi-Fi Multi-Media.

WMM Power Saving: Enable WMM Power Save.

PS Mode: Select which ACs you want to enable.

Direct Link Setup: Enable DLS (direct Link Setup).

(2) Direct Link Setup

MAC Address: Fill in the blanks of Direct Link with MAC address of STA. Connect with the same AP that supports DLS features

Timeout Value: Timeout Value represent that it disconnect automatically after some seconds. The value is integer. The integer must be between 0~65535. It represents that it always

connects if the value is zero.

(3) DLS Status

After configuring DLS successfully, show MAC address of the opposite side and Timeout Value of setting in "**DLS Status**". In "**DLS Status**" of the opposite side, it shows MAC address of itself and Timeout Value of setting.

[11n Configurations] The Station 11n Configurations page shows the settings and current operation status of the station.

<u>en all close all</u>	Station 11n Configu	rations			
Wireless 11N Router Operation Mode Quick start Internet Settings	The Status page shows the settir	gs and current operation status of the Station.			
Wireless Settings	11n Configuration				
Link Status	MDDLL Lagragation	Enable			
🔄 🗋 Site Survey	MPDO Aggregation	🔿 Manual 💿 Auto			
Advance	MPDU density	0 🗠			
- <u>n</u> oos	Aggregation MSDU(A-MSDU)	Enable Enable			

MPDU Aggregation: MPDU stands for MAC Protocol Data Unit. MPDUs are the fragmented units of MSDU, also called MAC frames, encapsulate the higher layer protocol data or contain MAC management messages.

MPDU Density: Select 0~7 to configure the MPDU density.

Aggregation MDSU (A-MSDU): A-MSDU stands for Aggregate MAC service data unit. This option allows aggregation of multiple MSDU in one MPDU. The MSDU is that unit of data that is received from the LLC sub-layer which lies above the MAC sub-layer in a protocol stack. The LLC and MAC sub-layers are collectively referred to as the DLL.

[WPS] You can setup security easily by choosing PIN or PBC method to do Wi-Fi Protected setup.

Wireles	s I W]]]] I-Fi Pré	Rout	er p (ST/	A)				
Wireless 11N Router Operation Mode Quick start	You	i could set	up security easily by (urvey	hoosing	PIN or	PBC method	to do Wi-Fi	Protect	ed Setup.
Internet Settings Wireless Settings	No.	SSID	BSSID	RSSI	Ch.	Auth.	Encrypt	Ver.	Status
Profile	۲	8651C	00E04C865101	15%	9	Unknown	WEP	1.0	Unconf.
QoS 11N Configurations P→ WPS P→ Firewall P→ Administration	Prin Re Ra Not	fresh Mi enew PIN Status	vice Type:Unkno	wn:153	1048	PIN Start	PBC St	art (Cancel

WPS AP Site Survey: Display the information of surrounding APs with WPS IE from last scan result. List information includes SSID, BSSID, RSSI, Channel, ID (Device Password ID), Auth., Encrypt, Ver., and Status.

Refresh: Issue a rescan command to wireless NIC to update information on surrounding wireless network.

Mode: Our station role-playing as an Enrollee or an external Registrar.

PIN : 8-digit numbers. It is required to enter PIN Code into Registrar using PIN method. Each NIC Wireless has only one PIN Code of Enrollee.

PIN Start: Start to add to Registrar using PIN configuration method. IF STA Registrar, remember that enter PIN Code read from you Enrollee before starting PIN.

PBC Start: Start to add to AP using PBC configuration method.

WPS Status: Display the current status of the WPS function.

3.3 Quick Start

Quick Start will help you setup Wireless 11n Router quickly. There have five types of WAN Connections: Static (Fixed IP), DHCP (Auto Config), PPPoE (ADSL), PPTP, L2TP, and BigPond.



3.4 Internet Settings

The Internet Settings contains the following sections:

- WAN
- LAN
- DHCP Clients
- VPN Passthrough
- DNS
- Advanced Routing
- QoS

3.4.1 WAN

The WAN port is the connection of the 802.11n AP Router module to existing broadband device such as Cable modem or ADSL CPE. Click **WAN** on Internet Setting, below screen will prompt for WAN setting.

	Windows Internet Explorer		
🕘 🕗 🗢 🙋 http://192.168	3.1.1/home.asp	- 🤸 🗶 Live Search	Q
🎽 🎄 🌈 Wireless Router	WebServer	🛐 🔹 🗟 🔹 🖶 🔹 🔂 Pag	ie ▼ ۞ T <u>o</u> ols ▼
Wireles	s 11n Rou	iter	
pen all close all	Wide Area Network	(WAN) Settings	
	WILLE ATEA NELWOIN	(WAN) Settings	
Wireless 11N Router	You may choose different conne	ection type suitable for your environment. Besides	s, you may also
Quick start	conligure parameters according	to the selected connection type.	
Internet Settings	<u>}</u>		
WAN			
LAN	WAN Connection Type:	DHCP (Auto config)	
LAN DHCP Clients VIN Parthrough	WAN Connection Type: DHCP Mode	DHCP (Auto config) 🔻	
LAN DHCP Clients VPN Passthrough DNS	WAN Connection Type: DHCP Mode Hostname	DHCP (Auto config)	
LAN DHCP Clients VPN Passthrough DNS Advanced Routing	WAN Connection Type: DHCP Mode Hostname (optional)	DHCP (Auto config) ▼ Router domain	
LAN DHCP Clients VPN Passthrough DNS Advanced Routing QoS Wireless Settings	WAN Connection Type: DHCP Mode Hostname (optional) MTU	DHCP (Auto config) Router domain 1500 (576-1500)	
LAN DHCP Clients DHCP Clients DNS Advanced Routing QoS Wireless Settings Firewall	WAN Connection Type: DHCP Mode Hostname (optional) MTU MAC Clone	DHCP (Auto config) Router domain 1500 (576-1500)	
 LAN DHCP Clients VPN Passthrough DNS Advanced Routing QoS Wireless Settings Firewall Administration 	WAN Connection Type: DHCP Mode Hostname (optional) MTU MAC Clone Enabled	DHCP (Auto config) Router domain 1500 (576-1500) Disable	
 LAN DHCP Clients VPN Passthrough DNS Advanced Routing QoS Wireless Settings Firewall Administration 	WAN Connection Type: DHCP Mode Hostname (optional) MTU MAC Clone Enabled	DHCP (Auto config) Router domain 1500 (576-1500) Disable Cancel	
LAN DHCP Clients VPN Passthrough DNS Advanced Routing QoS Wireless Settings Firewall Administration	WAN Connection Type: DHCP Mode Hostname (optional) MTU MAC Clone Enabled	DHCP (Auto config) Router domain 1500 (576-1500) Disable Cancel	

This AP Router supports 5 methods of obtaining the WAN IP Address:

-- **Static IP (fixed IP)**: Use static IP address to access Network. Your ISP will provide a static IP address.

- -- DHCP (Auto Config): Automatic gets IP address from your ISP.
- -- PPPoE (ADSL): PPPoE is an common connection type used for xDSL.
- -- PPTP: PPP Tunneling Protocol can support multi-protocol Virtual Private Network (VPN).
- -- L2TP: Layer 2 Tunneling Protocol can support multi-protocol Virtual Private Networks (VPN)
- -- **BigBond:** Bigbond is an Australian internet service provider and is a subsidiary of Telstra.

3.4.2 LAN

When the module operates in the Gateway mode, it supports the NAT (NAPT) feature. It means the WAN and LAN interfaces are located in different network segments and therefore the date traffic needs to be routed between the two interfaces.

To communicate with 802.11n router properly, must assign an IP address to the LAN port of the user's PC. There are two ways to assign a proper IP address to the user PC's LAN port:

- Manual configuration of the user PC: This required if the user configures the 802.11n router WAN port with a static IP address.
- Dynamic IP assignment with DHCP: 802.11n router can act as a DHCP server which dynamically assigns an IP address to user's PC located in the LAN-side network.

Click LAN on Internet Settings, below screen will prompt for LAN setting.

	1.1/nome.asp	Live search
🖗 🦉 Wireless Router W	/ebServer	
	11n Down	
wireless	S IIII ROUL	
all <u>close all</u>	Local Area Network (LAN) Settings
reless 11N Router	You may enable/disable networkin	n functions and configure their parameters as your wish
Operation Mode	rou may enable/disable networkin	g functions and conligure their parameters as your wish.
Quick start Internet Settings		
WAN	LAN Setup	
 DHCP Clients VPN Passthrough DNS Advanced Routing QoS Wireless Settings Firewall Administration 	IP Address	192.168.1.1
	Subnet Mask	255.255.255.0
	MAC Address	00:06:4F:34:99:7C
	DHCP Туре	Server 🔻
	Start IP Address	192.168.1.100
	End IP Address	192.168.1. 250
	Lease Time	86400
	Statically Assigned	MAC:
		IP:
	Statically Assigned	MAC:
		IP:
	Statically Assigned	MAC:
		IP:
	802.1d Spanning Tree	Disable -
	LLTD	Disable -
	IGMP Proxy	Disable -
	UPNP	Disable 🔻
	Router Advertisement	Disable 🔻
	PPPoE Relay	Disable 🔻
	DNG Prov	Enable -

LAN IP Address: The LAN IP address. Default: 192.168.1.1

Subnet Mask: The LAN net-mask. Default: 255.255.255.0

DHCP Type: Select Disable to disable this Router to distribute IP address. Select Server to enable this Router to distribute IP addresses (DHCP server). And the following field will be activated for you to enter this starting IP address.

Start IP address: Specify the starting IP address of the IP address pool. Default Start IP: 192.168.1.100.

End IP address: Specify the ending IP address of the IP address pool. Default End IP: 192.168.1.250.