



Vročča Točka.Si

PUBLIC Wi-Fi HOTSPOT
Hospitality

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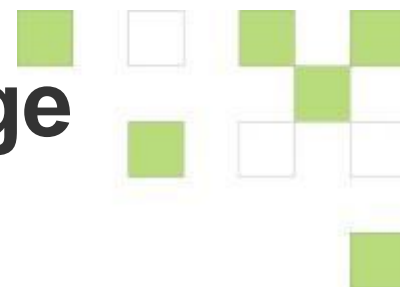
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V1.00



Wi-Fi HotSpot Challenge



- **Hard to deploy**
 - RADIUS server costs high and difficult to install and maintain.
 - Authentication / Accounting / Billing system
- **Hard to profit sharing**
 - Lots of business fail due to the profit sharing model and pre-paid card system distribution.
- **Hard to setup network**
 - Can not solve different TCP/IP setting
- **Hard to secure wireless**
 - WEP key is not secure
 - Can not authenticate users
 - Share my data with everyone



What is Easy Hotspot Kit

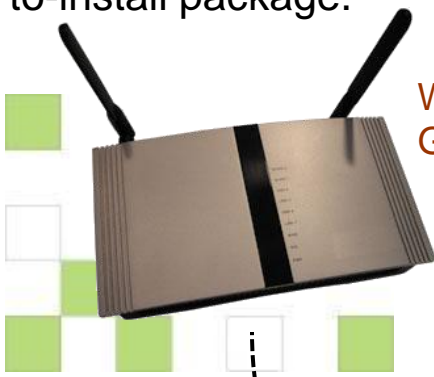
Solve all challenges listed

Featuring an access controller with robust full-featured router/gateway, high-speed wireless access point, and an account generator printer, the Easy Hotspot Kit enables you to deploy any public area which covers small or medium locations, such as Internet Cafés, hotel lounge and even entire airport or conference center.



Single Kit and Easy to deploy

Until now, installing a wireless hotspot has been a costly and complicated undertaking. The Easy Hotspot Kit simplifies and integrates all the key features you need into a single, easy-to-install package.



Wireless Subscriber Gateway

WG-602



AG-300E

Account Generator Printer

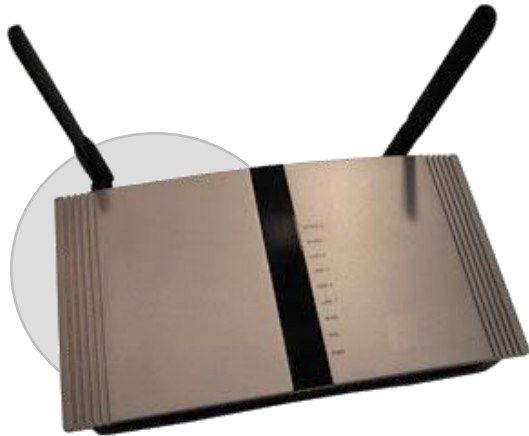


Vročna Točka Si
PUBLIC Wi-Fi HOTSPOT

WG-602P



WG-602 Easy Hotspot Kit

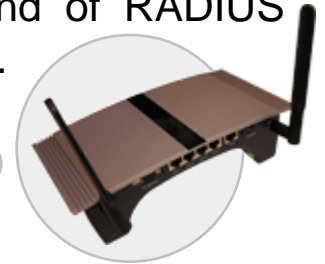


The WG -602 is a compact intelligent gateway integrated with a 4-port port-based V-LAN switch. It is designed as an Access Controller for service providers/system integrator/hotspot operator to deploy a Hotspot service with backend-RADIUS-Server. With its standard based RADIUS protocol, Hotspot operator can integrate WG-602 with any kind of RADIUS Server which is standard based.



Roaming Hotspot Solution

The WG-602 is an ideal solution for hotels, coffee shops, airports,



conference facilities and other sites that commonly host business travelers, and offers instant high-speed Internet connections. With its IP Plug 'n Play technology, it accepts any client configuration for log-on. There is no need for end-user to change any of their default network, e-mail, or browser settings or load any special software to access Hotspot service.

WG-602P Easy Hotspot Kit

The AG-300E Account Generator is a portable thermal printer that is integrated with WG-602 Wireless Subscriber Gateway to just press one button to generate one account and print it out immediately without PC operating.



Worldwide Patent



Wireless Subscriber Gateway

WG-602

Account Generator
Printer

AG-300E



Feature



○ Rich Networking Functions

- IP Plug and Play
- Email Server Redirection
- Transparent HTTP Proxy
- Various WAN Connections
- DHCP Server and DHCP relay
- DNS Redirection
- Dynamic DNS
- NTP Client
- Share LAN Resources
- Power over Ethernet

○ Wireless

- 802.11b/g Wireless LAN
- WPA Encryption
- 64/128-bit WEP Encryption



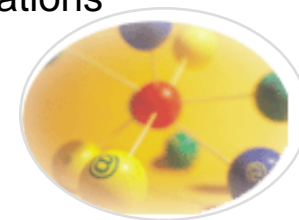
○ User Accounting & Authentication

- Web-based Authentication
- Local Authentication
- RADIUS Authentication
- 10 Billing Profile
- Billing Mechanism
- Printout Customization
- Support 100 Simultaneous Users

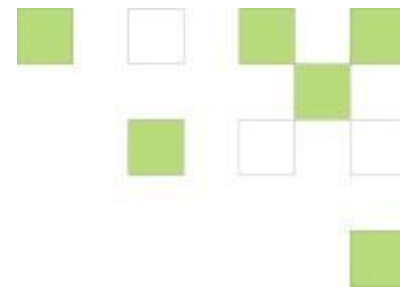


Flexible Billing System

- Pre-paid Billing
- Post-paid Billing
- Payment Gateway Integrations
- Keypad Application



Feature



○ Management

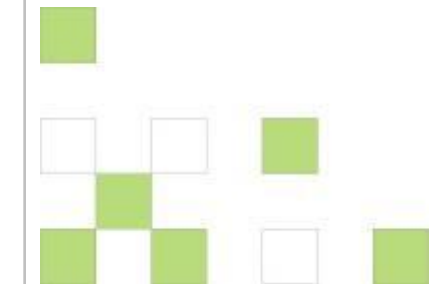
- Web-based Management
- Setting Wizard
- Real-time Session List
- LAN Device Management
- SNMP Management
- Syslog
- Status Report
- Firmware Upgrade
- Backup and Restore Configuration

○ Security and Firewall

- Layer 2 Isolation
- SSL Login Page
- VPN Pass through
- Pass Through IP/ MAC/ URL Address
- Administration Access Control
- Filtering

○ Marketing Cooperation

- Customized Login Page
- Login Page Redirection
- Advertisement Link
- Walled Garden



Rich Networking Functions

Feature

- ▶ IP Plug and Play
- ▶ Email Server Redirection
- ▶ Transparent HTTP Proxy
- ▶ Various WAN Connections
- ▶ Dynamic DNS
- ▶ NTP Client
- ▶ Share LAN Resources
- ▶ Power over Ethernet (Slave)



"Zero Configuration" Internet Access

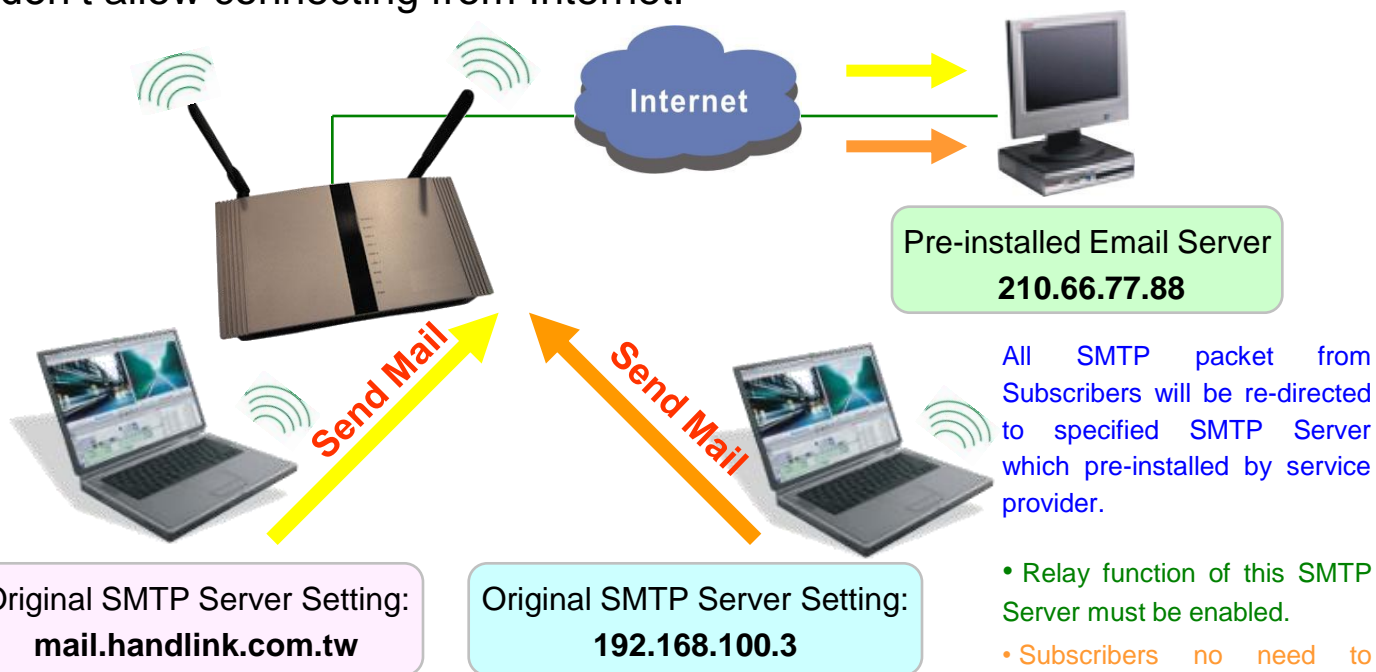
Easy-to-Use, Plug-and-Play Internet Access

Handlink's unique **IP Plug&Play (iPnP)** technology allows subscribers to connect with ease for broadband access without having to re-configure any of their device IP settings including DHCP, DNS, Proxy and dynamic and static IP address assignments.



Outgoing Email Redirection

The WG-602 will redirect subscriber's original message of E-mail according to SMTP rules and sent it out via the specified SMTP server. This function could help subscribers to send E-mail via the local SMTP server when their default SMTP server is out of work or don't allow connecting from Internet.

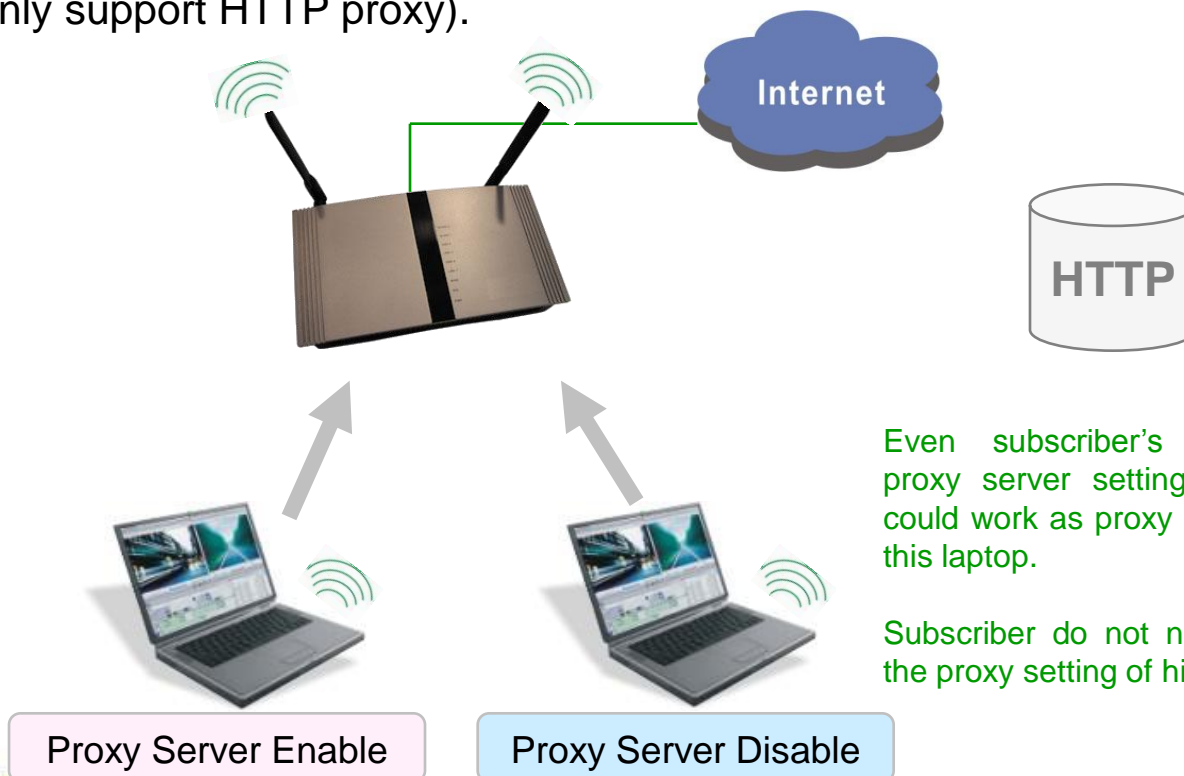


All SMTP packet from Subscribers will be re-directed to specified SMTP Server which pre-installed by service provider.

- Relay function of this SMTP Server must be enabled.
- Subscribers no need to modify the SMTP setting for their laptop.

Transparent HTTP Proxy

Supports common proxies acting as a proxy server. This function could help subscribers without changing proxy settings to eliminate support calls related to client proxy settings. (only support HTTP proxy).

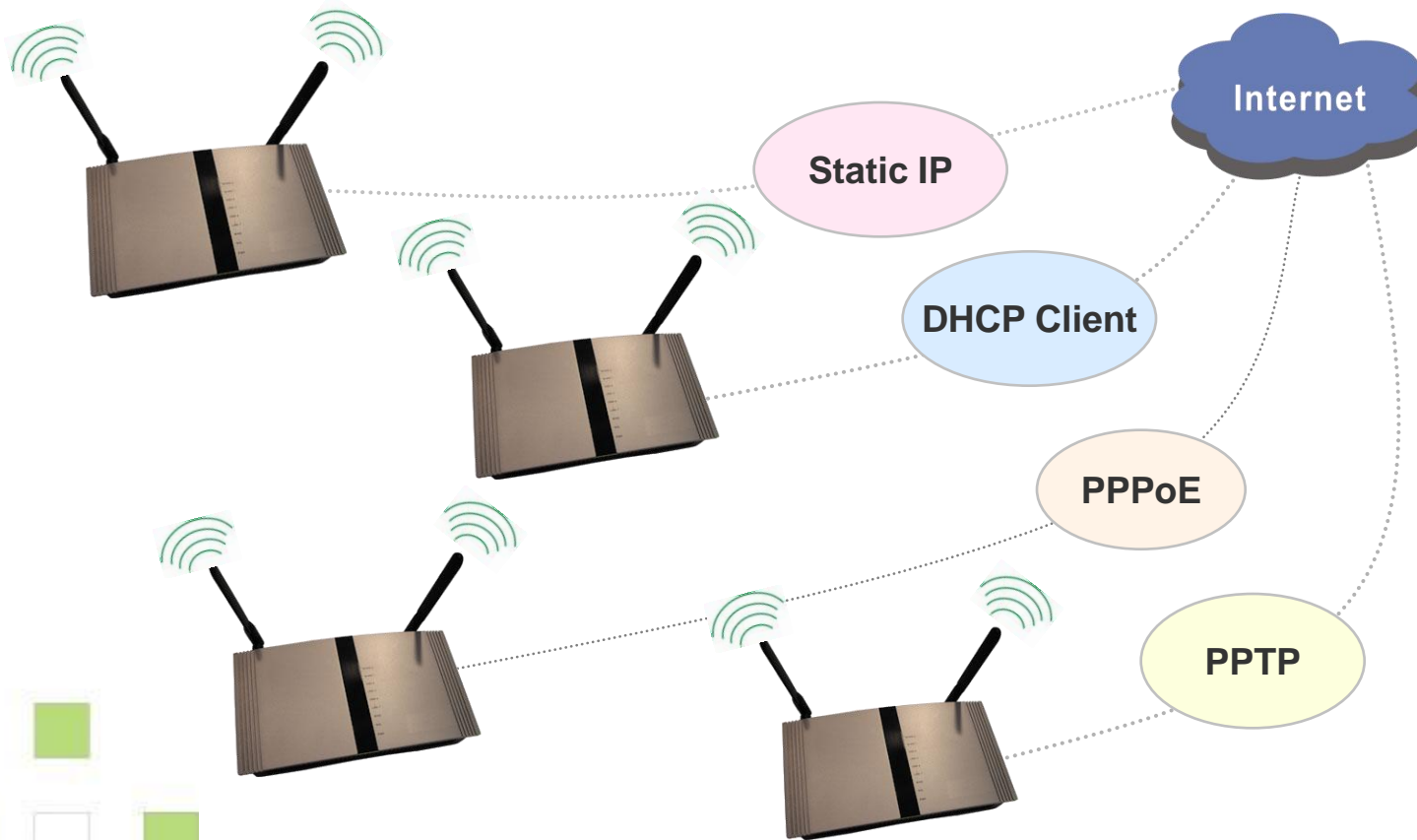


Even subscriber's browser has proxy server setting, the WG-601 could work as proxy server to serve this laptop.

Subscriber do not need to change the proxy setting of his laptop.

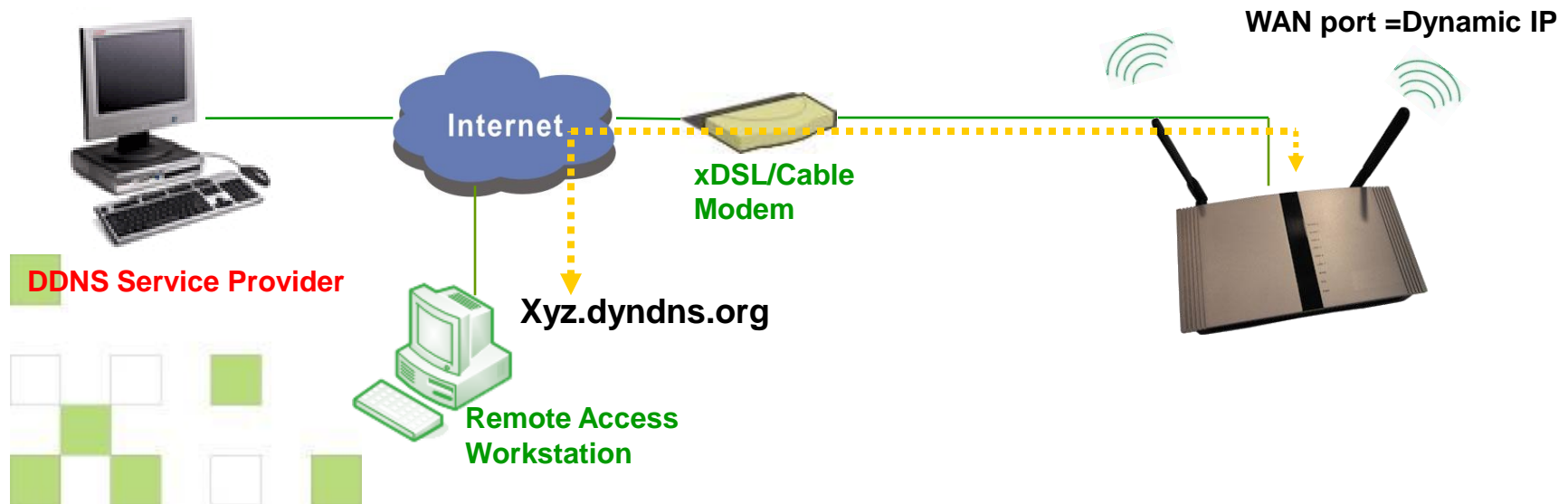
Various WAN Connections

The system provides alternative WAN connection such as PPPoE, PPTP, DHCP Client or Static IP for service provider to establish their service networking quickly and easily.



Dynamic DNS

The DDNS service (Dynamic Domain Name Service), an IP Registry provides a public central database where information such as email addresses, host names, IP addresses etc. can be stored and retrieved. This solves the problems if your Gateway uses an IP associated with dynamic IP addresses. When the ISP assigns the Wireless Subscriber Gateway a new IP, the Wireless Subscriber Gateway must inform the DDNS server the change of this IP so that the server can update its IP-to-DNS entry. Once the IP-to-DNS table in the DDNS server is updated, the DNS name for your web server (i.e., xyz.dyndns.org) is still usable.



Dynamic DNS

DDNS



Force to update every day(s) when WAN IP address keeps no change

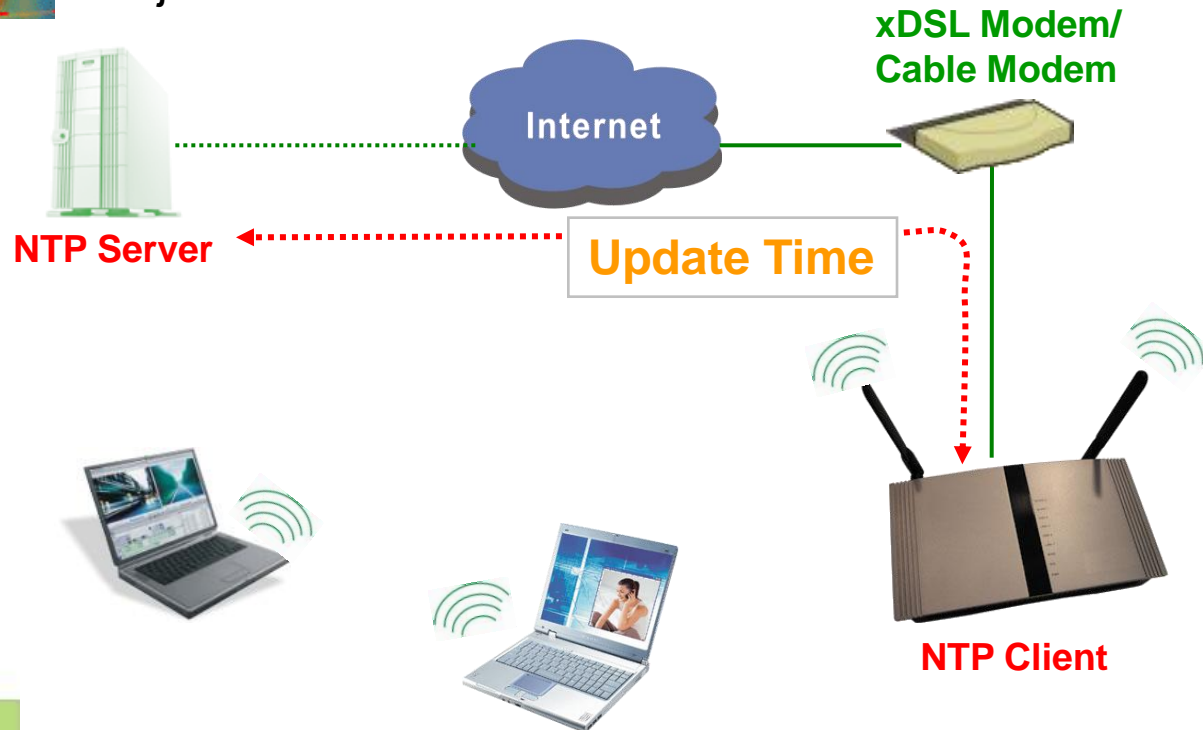
No	Active	Settings	Update Status Now
01	<input checked="" type="checkbox"/>	<p>Status: 2003/11/12 16:23:09 Updated Successfully</p> <p>Service Provider <input type="text" value="dyndns.org (www.dyndns.org)"/></p> <p>Registered Host Name <input type="text" value="dyndns.org (www.dyndns.org)"/> <input type="text" value="changeip.com (www.changeip.com)"/> <small>(for example: xyz.dyndns.org)</small></p> <p>Login Name <input type="text"/> <small>(max. 23 characters)</small></p> <p>Password <input type="text"/> <small>(max. 23 characters)</small></p> <p>Email Address <input type="text"/> <small>(optional)</small></p> <p><input type="checkbox"/> Wildcards (optional)</p>	



NTP (Network Time Protocol) Client



Network Time Protocol can be utilized to synchronize the time on devices across a network. A NTP Time Server is utilized to obtain the correct time from a time source and adjust the local time.



Share LAN Resources

This feature allows to share the network resource like printer after subscriber successful login.

SHARE



Share LAN resource :

Please enter new sharing LAN resource (up to 50 entries)

Resource Name	Resource IP Address	Resource MAC Address	Interface
<input type="text"/>	<input type="text"/>	<input type="text" value="00-11-22-33-44-55"/>	<input type="text" value="Wired"/>

Add to List

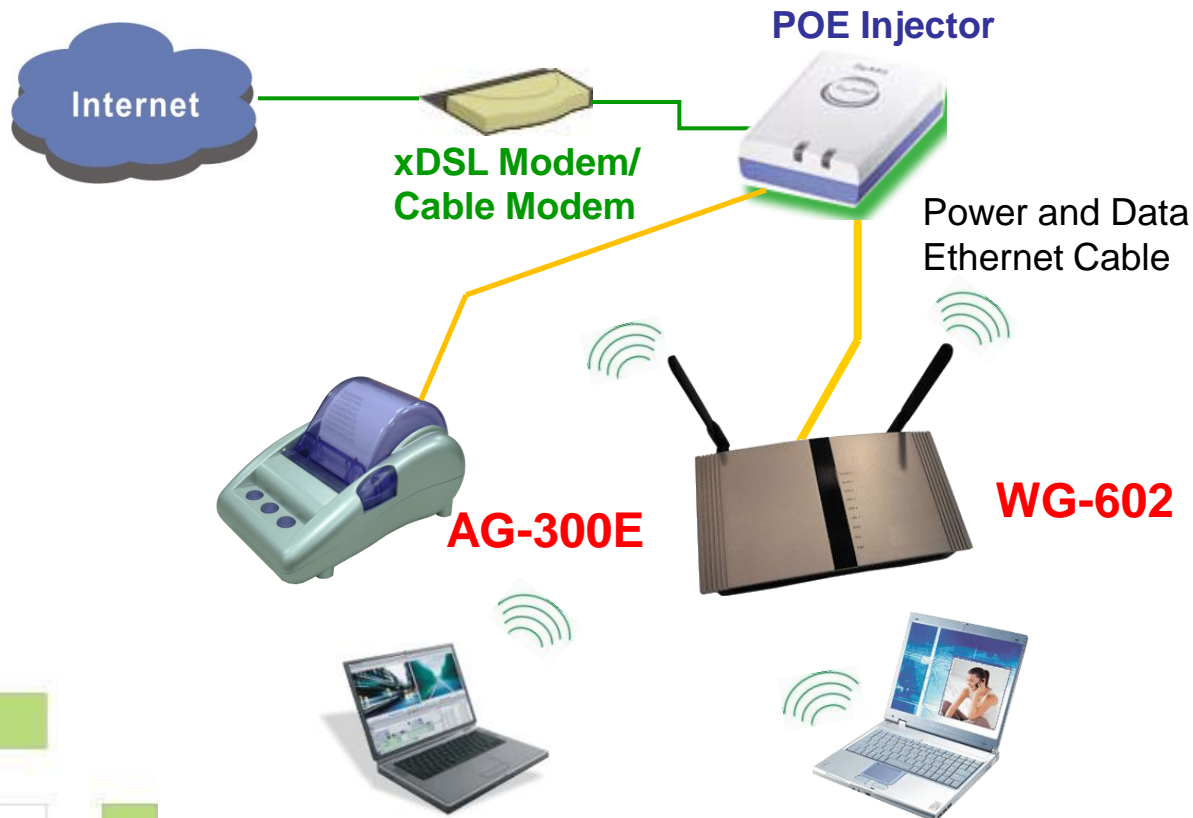
Share LAN resource List

No.	Active	Resource Name	IP Address	MAC Address	Interface	Delete
001	<input checked="" type="checkbox"/>	HP LaserJet 5 on 1F	192.168.1.100	00-11-22-33-44-55	Wired	<input type="checkbox"/>
002	<input checked="" type="checkbox"/>	HP LaserJet 6 on 2F	192.168.1.200	00-11-22-33-44-50	Wireless	<input type="checkbox"/>

Delete All

Power over Ethernet

The feature facilitates large-scale wireless LAN deployment.



User Accounting & Authentication

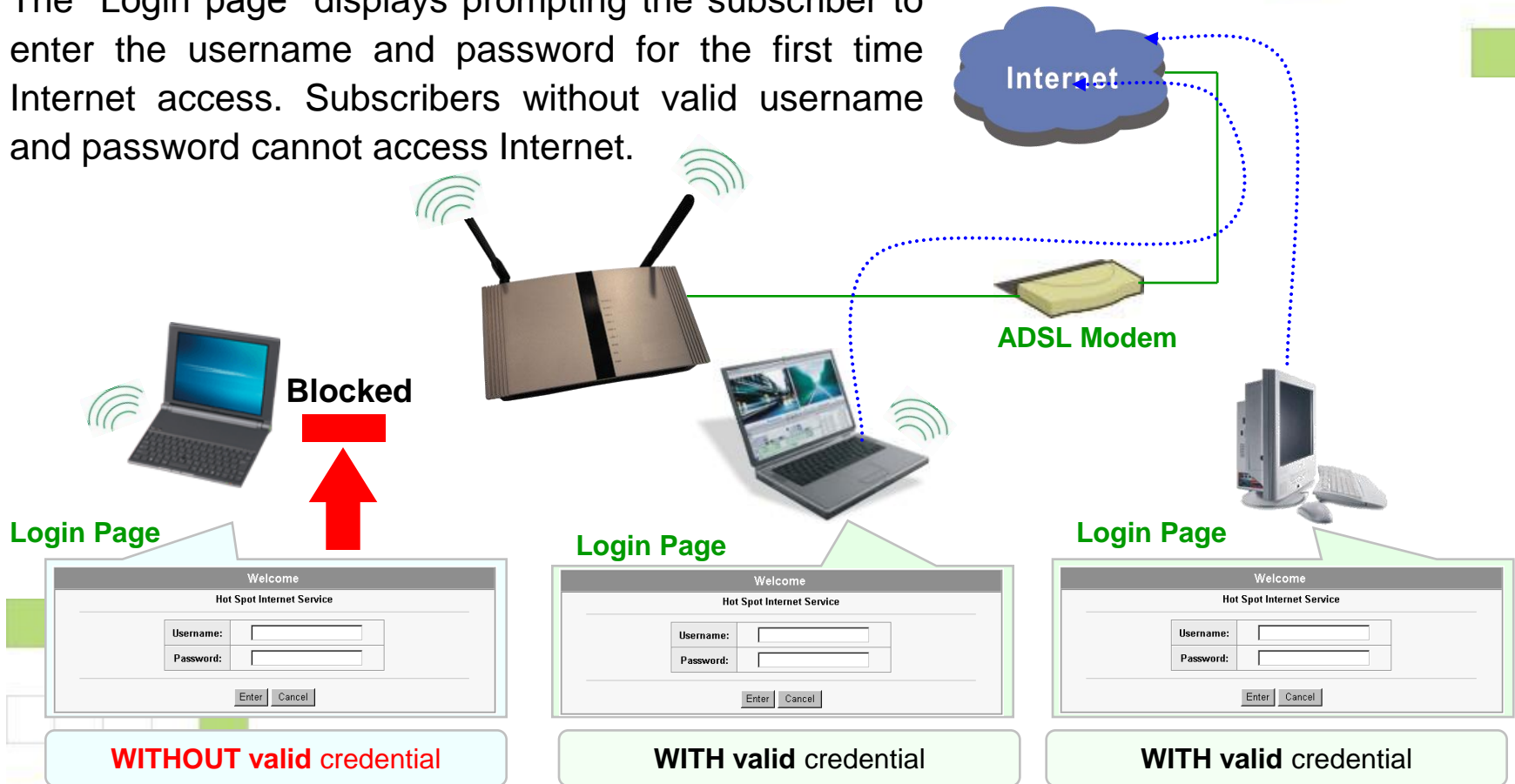
Feature

- ▶ Web-based Authentication
- ▶ RADIUS AAA Support
- ▶ 10 Billing Profile
- ▶ Printout Customization
- ▶ User Account List



Web-based Authentication

The "Login page" displays prompting the subscriber to enter the username and password for the first time Internet access. Subscribers without valid username and password cannot access Internet.



Local Authentication

Login Page

Welcome
Hot Spot Internet Service

Username:

Password:

Enter Cancel



Subscriber



WG-602

Internet Access Request (Open Browser)

Send "Login Page" to subscriber

Enter username and password

Access Allow or Deny

Internet Access

RADIUS Authentication

Login Page

Welcome
Hot Spot Internet Service

Username:

Password:

Enter Cancel



Subscriber

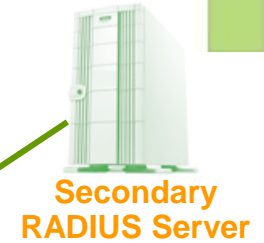
- Authentication and Accounting service
- Secondary RADIUS redundancy



WG-602



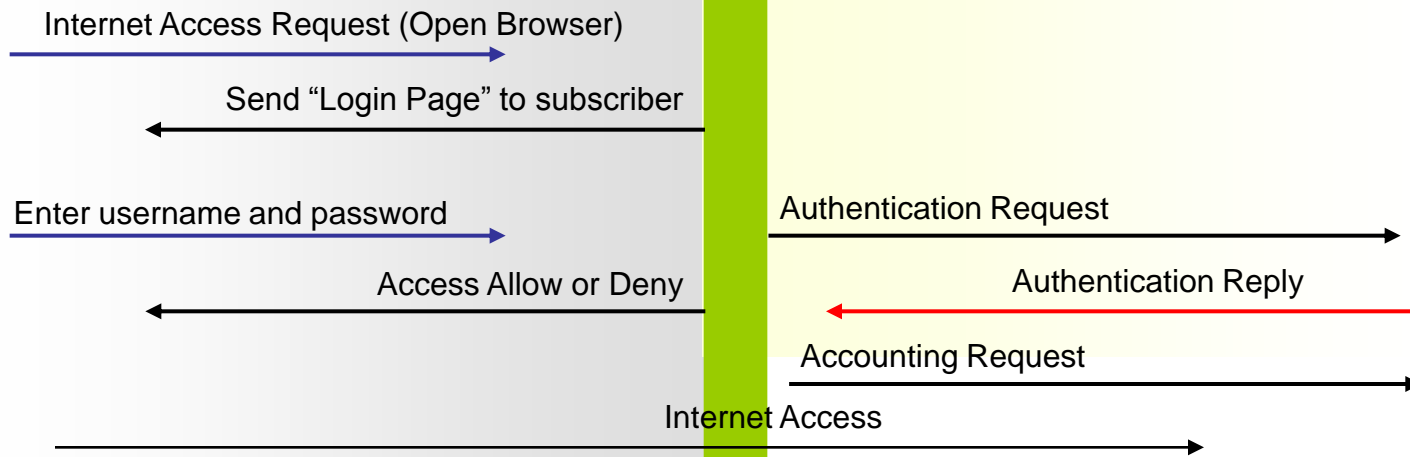
Internet



Secondary RADIUS Server



RADIUS Server



10 Billing Profiles

The administrator can define up to 10 billing profiles.

Billing Profile

Currency: \$ (Number of decimals places: 2)

Tax Percentage: 5 %

No	Active	Name (max. 12 characters)	Account Usage time		Charge
01	<input checked="" type="checkbox"/>	30 minutes	30	minutes	1.00
02	<input checked="" type="checkbox"/>	1 hour	1	hours	2.00
03	<input checked="" type="checkbox"/>	2 hours	2	hours	3.00
04	<input type="checkbox"/>	3 hours	3	hours	4.00
05	<input type="checkbox"/>	5 hour	5	hours	5.00
06	<input type="checkbox"/>	10 hours	10	hours	6.00
07	<input type="checkbox"/>	1 day	1	days	10.00
08	<input type="checkbox"/>	2 days	2	days	20.00
09	<input type="checkbox"/>	7 days	7	days	50.00
10	<input type="checkbox"/>	30 days	30	days	200.00

Billing Mechanism

You have two ways to operate the accounts:

1. Clicking the button on the Account Generator Printer connected with WG-602's Printer port.
2. Clicking the 3 pre-defined buttons from the Web-based Account Operator.

1



2

Account Generator Panel

Please choose one button from the following selections

30 minutes 1 hour 2 hours

Web-based Account Generator Panel Setting Preview / Operate

Button A	(01) 30 minutes, 30 minutes, \$1.00
Button B	(02) 1 hour, 1 hour, \$2.00
Button C	(03) 2 hours, 2 hours, \$3.00

Print to... Account Generator Printer PC-Connected Printer

Printout Customization



This function allows you to produce custom bill based on your requirements.

Customize Printout Label Setting

Logo

Title (Max.=75)

Subtitle (Max.=60)

Username (Max.=24)

Password (Max.=24)

Billing Method (Max.=24)

Billing Profile (Max.=24)

Purchase Unit (Max.=24)

Usage Time (Max.=24)

Price

TAX (Max.=24)
 (Max.=24)
TOTAL: (Max.=24)

ESSID (Max.=24)

WPA Pre-share Key (Max.=24)

WEP Encryption (Max.=24)

Additional Label 1 (Max.=24)
Value: (Max.=24)

Additional Label 2 (Max.=24)
Value: (Max.=24)

Print out Time **Format:**
(HH:24h hh:12h tt:AMPM)

Expiration Time **Description:** (Max.=60)
Format:
(HH:24h hh:12h tt:AMPM)

Ending (Max.=75)

[Preview of PC-connected printer](#)
[Preview of account generator printer](#)
[Preview of Post-Paid Printout](#)



Welcome!

Hotspot Internet Service

Username:xxxxxxxx

Password:xxxxxxxx

Usage Time:

Billing: Time to Finish

Service: 1 day \$35.00

Unit: 1

Total \$ 100.00

ESSID: Wireless

WEP:

2003/11/10 15:02:34
S/N:000001
Please start your account before
2003/11/11 03:02:34
Thank you very much !

Close

Print

User Account List

The device provides a simple interface for administrator to manage the user accounts.

ACCOUNT LIST

1 Page refresh ↻

⏪ First ◀ Previous Next ▶ End ⏩

SN	Status	Username	Usage Time	Time Created	Login Time	Expiration Time	Delete
000001	Un-used	fwsdtm23	0:30:00	2003/11/10 14:40:20		2003/11/11 02:40:20	<input type="checkbox"/>
000002	Un-used	p3rix834	2:00:00	2003/11/10 14:41:04		2003/11/11 02:41:04	<input type="checkbox"/>
000003	Un-used	c99ib424	1:00:00	2003/11/10 14:43:14		2003/11/11 02:43:14	<input type="checkbox"/>
000004	In-used	6nf77s27	0:30:00	2003/11/10 14:43:17	2003/11/10 14:44:57	2003/11/10 15:14:57	<input type="checkbox"/>

Delete Delete All

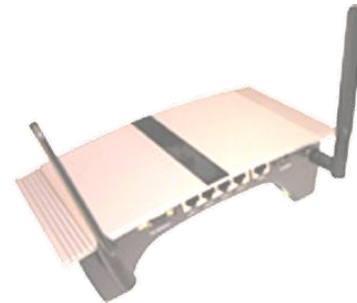
1 Page ⏪ First ◀ Previous Next ▶ End ⏩

Support 100 Simultaneous Users

Flexible Billing System

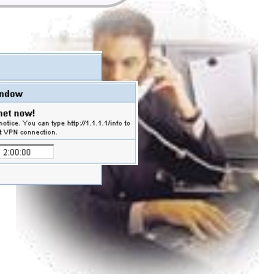
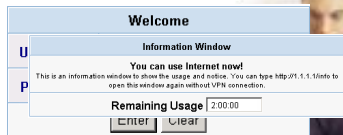
Feature

- ▶ Pre-paid Billing
- ▶ Post-paid Billing
- ▶ Payment Gateway Integrations
- ▶ Keypad Application

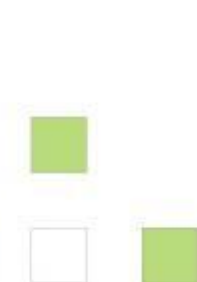


5

Key in **username**, **Password** and enjoy the internet access



Subscriber

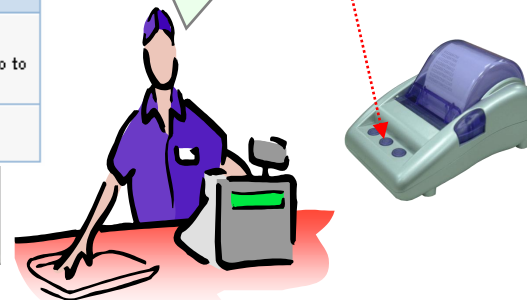


Pre-paid Billing (Time to Finish)

2

30min., 1 hours or 2 hours ?

Click on B button.



Hotspot Operator

1

Please give me an account.



Here is your account, total amount is \$12.

3

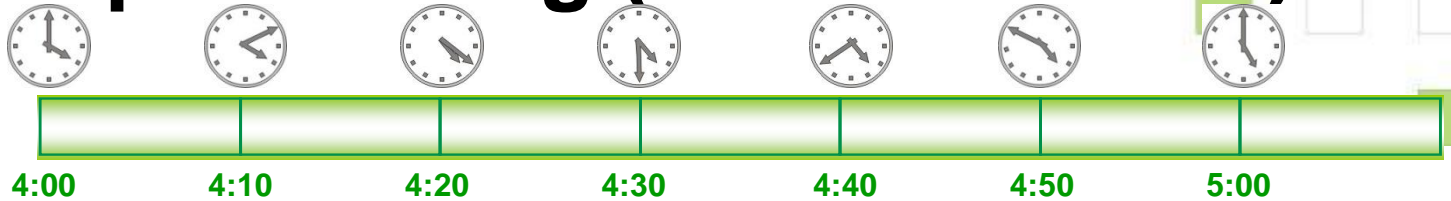
4

Pay the money to Hotspot Operator.

6

After 2 hours, Internet access time out.

Pre-paid Billing (Time to Finish)



Account
Create

Subscriber
Login

60 Min(s)

Expire



Hotspot
Operator



Subscriber



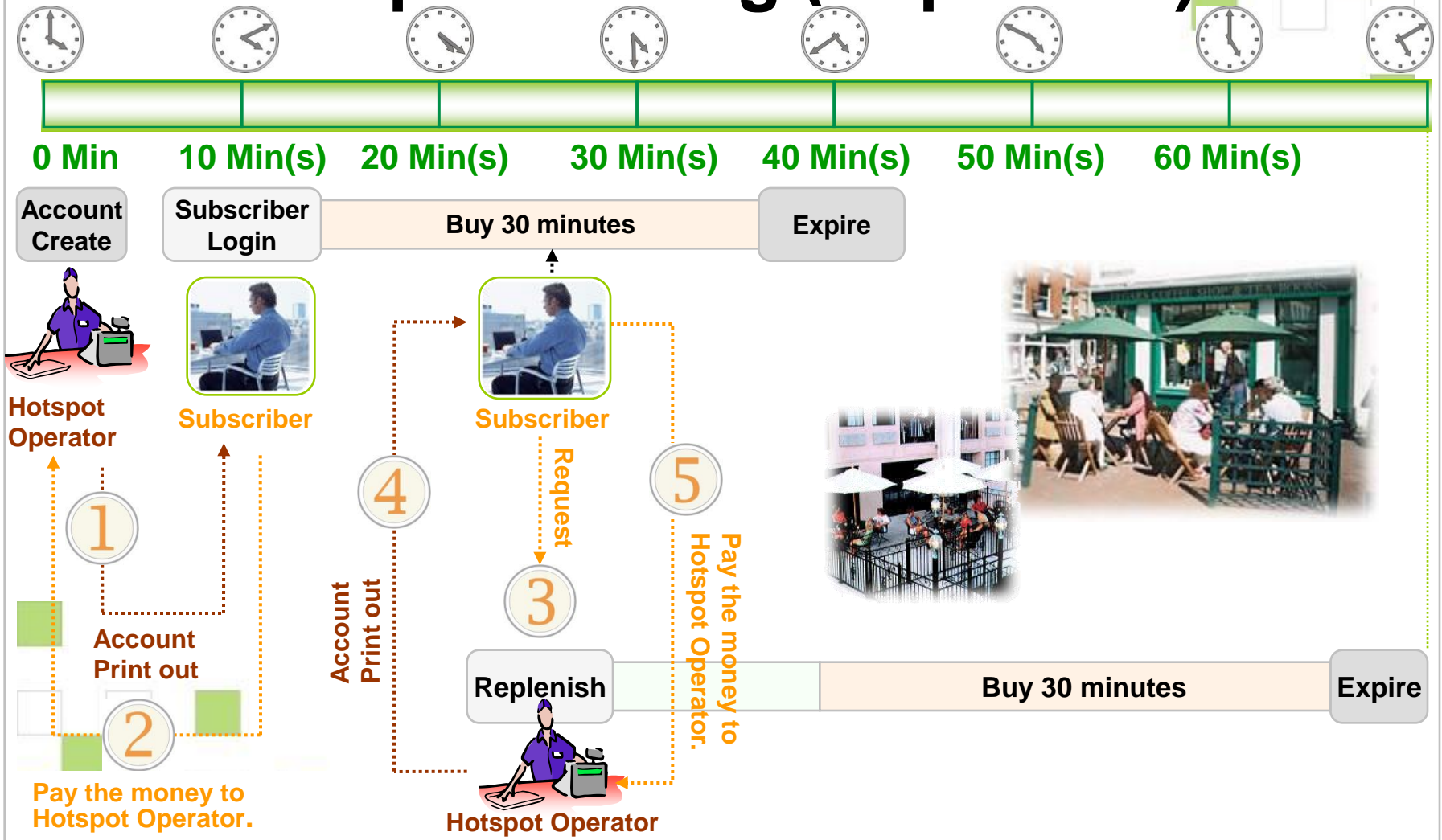
1

Account
Print out
Usage = 60 Min.

2

Pay the money to
Hotspot Operator.

Pre-paid Billing (Replenish)



Pre-paid Billing (Accumulation)



4:00 4:10 4:20 4:30 4:40 4:50 5:00

Account Create

Subscriber Login

20 Mins

Subscriber Logout

Subscriber Login

40 Min(s)



Hotspot Operator



Subscriber



Subscriber



Subscriber

1

Account Print out
Usage = 60 Min.

2

Pay the money to Hotspot Operator.



Post-paid Billing

Key in **username**, **Password** and enjoy the internet access

4



Subscriber

I want to go to Internet.

1

Please give me an account.

Here is your account.

3

5

Please give me a bill.

Total amount is \$12.

7

8

Pay the money to Hotspot Operator.

Press Enter
Account Print out.

2



Hotspot Operator

Welcome!

S/N: 001234

Hotspot Internet Service

Username: adx12dwe
Password: 129c831bc

ESSID: Wireless

WEP:
Add1:
Add2:

2003/10/25 10:30:40
Please activate your account
before 2003/10/25 22:30:40

Thank you very much!

Key in * **code**
number [Enter].

Total amount is \$12.
receipt

6

Welcome!

S/N: 001234

Hotspot Internet Service

Username: adx12dwe
Password: 129c831bc

Usage Time: 40 minutes

Total: \$ 34.00

Tax: \$ 1.70

Total: \$ 35.7

2003/10/25 11:10:40

Thank you very much!

Payment Gateway Integrations

The system provides common Payment Gateways including “Authorize.net” and “Validate.net” are available.

CREDIT CARD



Authorize.net

Merchant ID

Merchant Transaction Key

Payment Gateway

https://secure.authorize.net/gateway/transa

Email Additional Information

Merchant Name: (max. 40 characters)

Username and Password

Usage Time

Credit Card icons to be displayed on the login page



Apply



Select service and enter payment information.

2

Key in **username**, **Password** and enjoy the internet access.

5

I want to go to Internet.

Subscriber

Welcome
Hot Spot Internet Service

Following service selection

Charge	€100.00
--------	---------

...ice

...y first use the Internet!

...username and password for logging in later. This will be your do so. Note upper and lowercase letters.

...formation, please keep this for your Internet Service.

Your username is: **u92tt237**

Your password is: **vk544d77**

Your usage time is: **0:30:00**

Please activate your account before **2003/11/14 04:57:37**

... Email this webpage to myself ... Use this account to LOGIN now ...

Submit Transaction

Credit Service Center

1

Choose Credit service.

Authentication OK.

3

Create an account.

4



Keypad Application

1. Only for AG-300E Account Generator Printer.
2. Supports 10 services/price plans.
(The system provides ten user definable hot keys through the use of the + Key plus the 1 through 0 keys across the top of the keypad.)



KEYPAD

Use for Post-Paid Billing Setting

Based on Charge by levels

Level	Conditions	Time Range	Unit Price
1	when > =	1	1.00
2	when > =	3	0.8
3	when > =	5	0.7
4	when > =	7	0.6
5	when > =	10	0.5
6	when > =	12	0.4
7	when > =	24	0.3
8	when > =		
9	when > =		
10	when > =		



Wireless

Feature

- ▶ 802.11b/g Wireless LAN
- ▶ WPA Encryption
- ▶ 64/128-bit WEP Encryption



802.11b/g Wireless LAN

WIRELESS

IEEE 802.11b: 11, 5.5, 2.1Mbps



IEEE 802.11g: 54, 48, 36, 24, 18, 12, 9, 6Mbps



General Setting:

ESSID:

Channel:

Security: Disable

WPA

Group Key Re-key per seconds

Use WPA with Pre-shared Key

Pre-Shared Key: (8-63 characters)

Use WPA with RADIUS

Server IP/Domain Name

Authentication Port

Share Secret Key

WEP

Encryption: 64 bit 128 bit

Mode:

WEP Key

Encryption: 64 bit 128 bit

Re-key Time: Minute

Server IP/Domain Name

Authentication Port

Share Secret Key

Beacon Interval:

(msec, range:1-1000, default:200)

RTS Threshold:

(range:256-2342, default:2342)

Fragmentation Threshold:

(range:256-2346, default:2346, even number only)

Preamble Type:

Short Preamble Long Preamble

Antenna Selection:

- Left Antenna
- Right Antenna
- Diversity Antenna



xDSL / Cable Modem

802.11b/g Wireless

Notebook with 11b Wireless Card

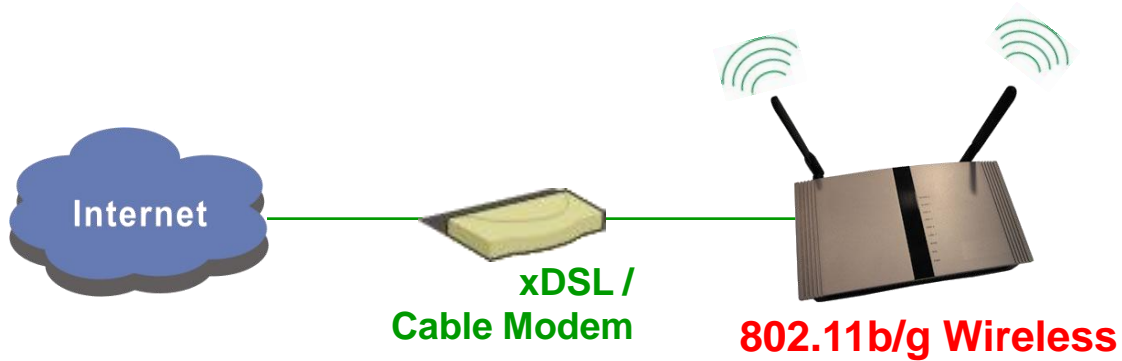
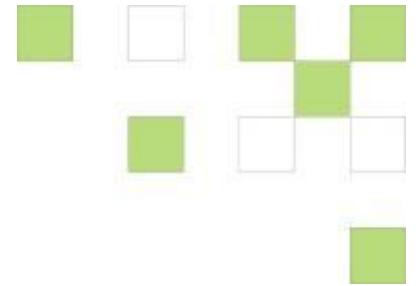
Notebook with 11g Wireless Card

Notebook with 11g Wireless Card

Notebook with 11g Wireless Card

WPA Encryption

Wi-Fi Protected Access.



WPA Encryption



WPA Encryption



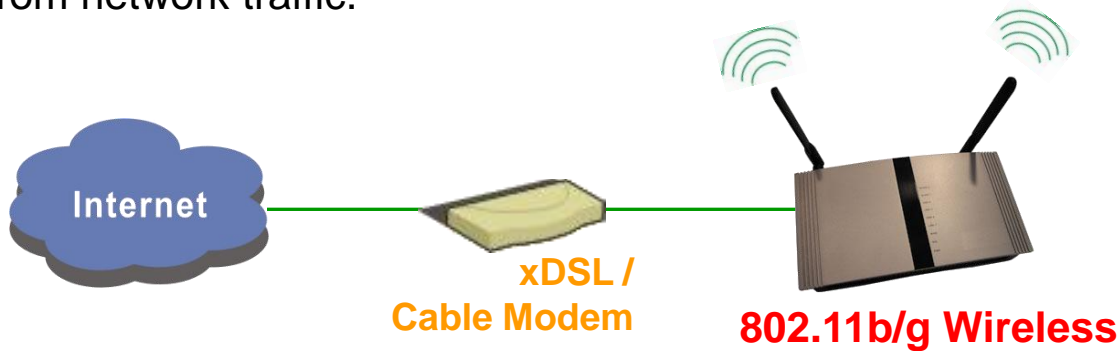
WPA Encryption



WPA Encryption

64/128-bit WEP Encryption

Wired Equivalent Privacy is based on the use of security keys and the popular RC4 encryption algorithm. Wireless devices without a valid WEP key will be excluded from network traffic.



WEP Encryption



WEP Encryption



WEP Encryption



WEP Encryption

Security and Firewall

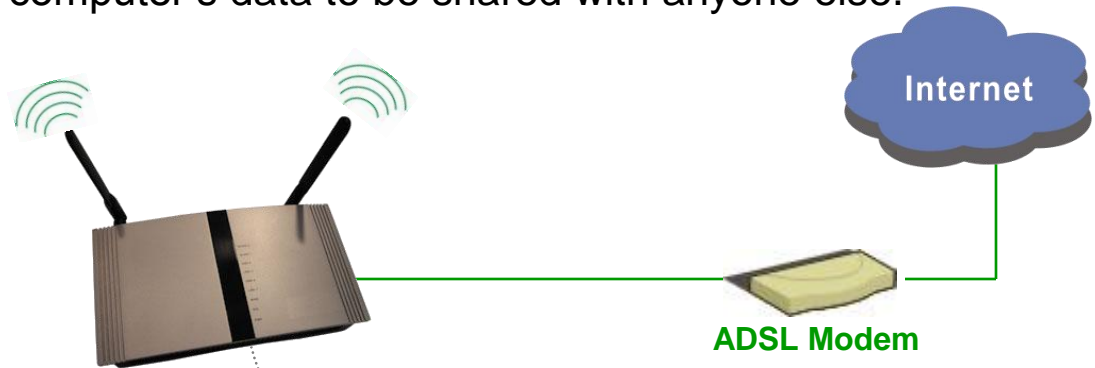
Feature

- ▶ Layer 2 Isolation
- ▶ SSL Login Page
- ▶ VPN Pass through
- ▶ Administration Access Control
- ▶ Pass through IP/MAC/URL Address
- ▶ Filtering



Layer 2 Isolation

This enables every wireless or wired subscriber to be not able to communicate with each other even they are within same subnet. That is the best solution for Hotspot security. Nobody allows his/her computer's data to be shared with anyone else.



SSL Login Page

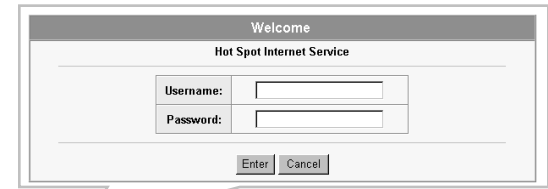
We use Secure HTML Login Page through SSL to protect username and password while LAN users login. That enables security authentication within the network.



ADSL Modem

Subscriber Login's Username/Password are encrypted, therefore even the packets are captured, hackers still uneasily to know the username/password.

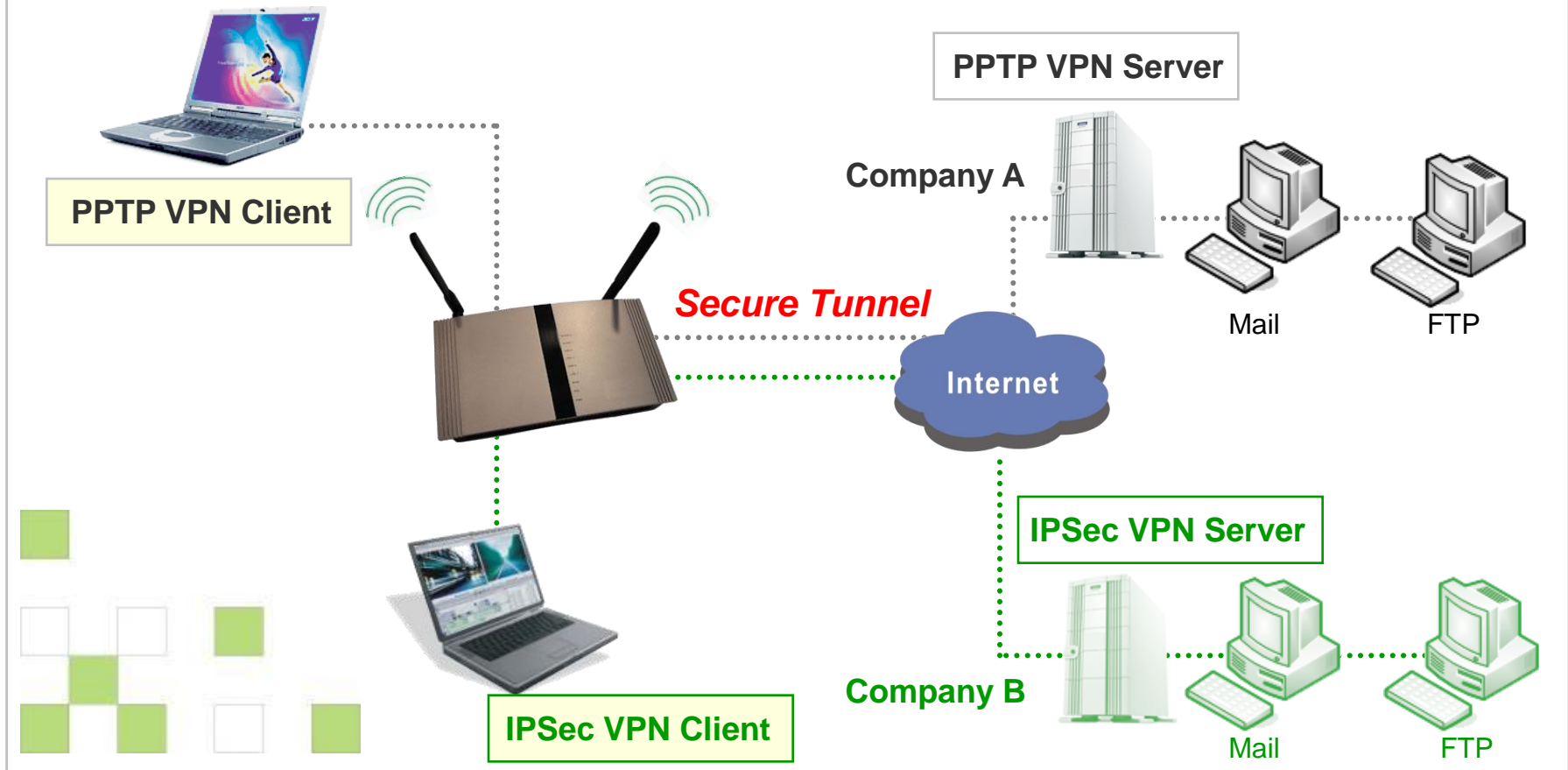
~~Username =?????????
Password =???????????~~



SSL Secure Login Page

VPN Pass through

VPN Passthrough provides the subscribers who want to run his VPN or secure tunneling client software to connect to his/her company's VPN server.



Pass Through IP/ MAC/ URL Address

PASS THROUGH

Pass Through:

Please enter new pass through for destination (up to 50 entries)

URL or Website:

Start / End IP Address: ~

Please enter new pass through for subscribers or LAN devices (up to 50 entries)

Start / End IP Address: ~

IP Address:
Subnet Mask:

MAC address:
Mask:

Pass Through List

No.	Active	Address List	Type	Delete
001	<input checked="" type="checkbox"/>	210.66.37.242	Destination	<input type="checkbox"/>
002	<input checked="" type="checkbox"/>	210.66.37.243 ~ 210.66.37.250	Destination	<input type="checkbox"/>
003	<input checked="" type="checkbox"/>	www.any.com	Destination	<input type="checkbox"/>
004	<input checked="" type="checkbox"/>	10.59.1.10 ~ 10.59.1.20	Subscriber/LAN device	<input type="checkbox"/>
005	<input checked="" type="checkbox"/>	10.59.1.10 / 255.255.255.0	Subscriber/LAN device	<input type="checkbox"/>
006	<input checked="" type="checkbox"/>	00-11-22-33-44-55 / FF-FF-FF-00-00-00	Subscriber/LAN device	<input type="checkbox"/>
007	<input checked="" type="checkbox"/>	11-11-22-33-44-55	Subscriber/LAN device	<input type="checkbox"/>

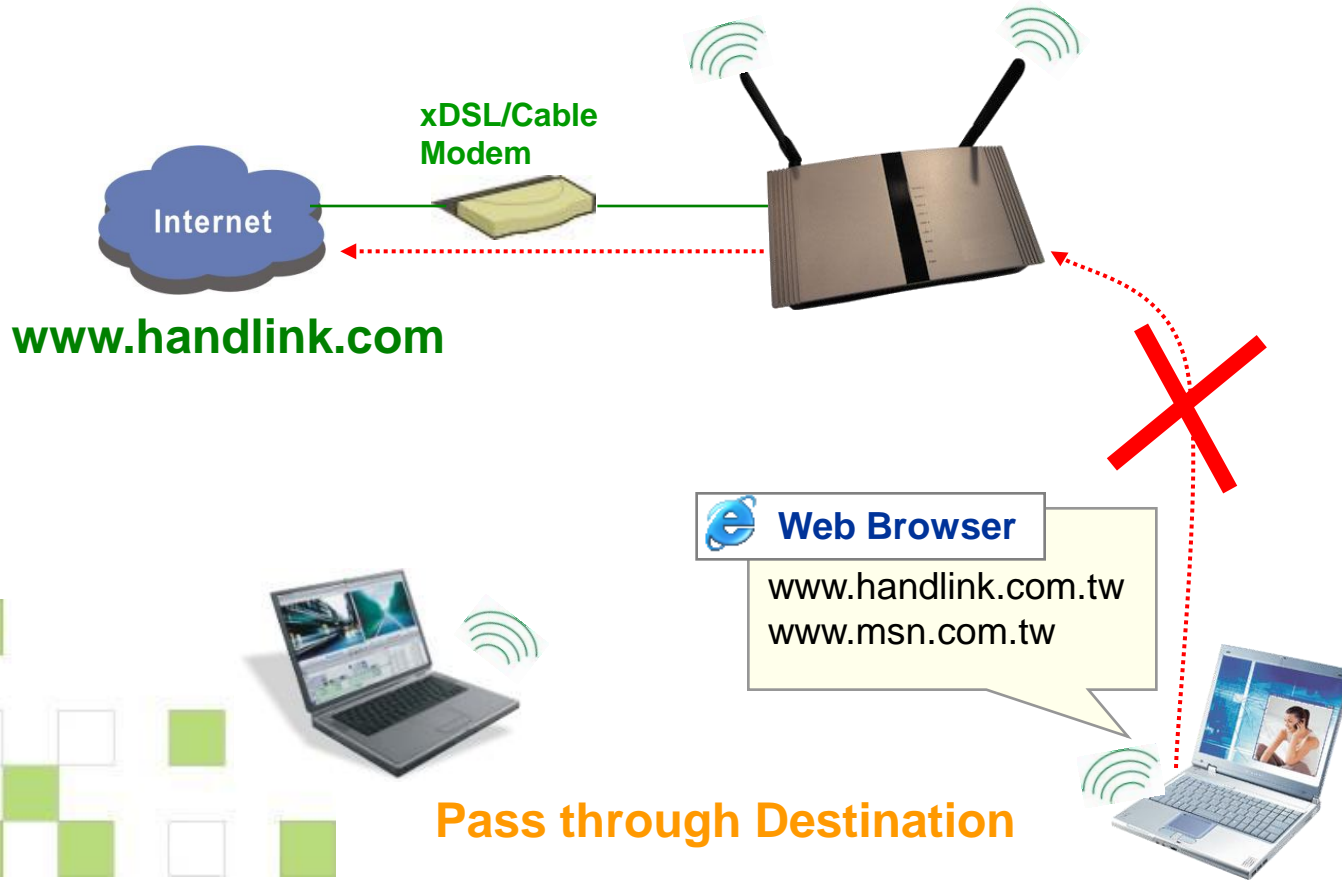
Destination

Subscriber

LAN Device

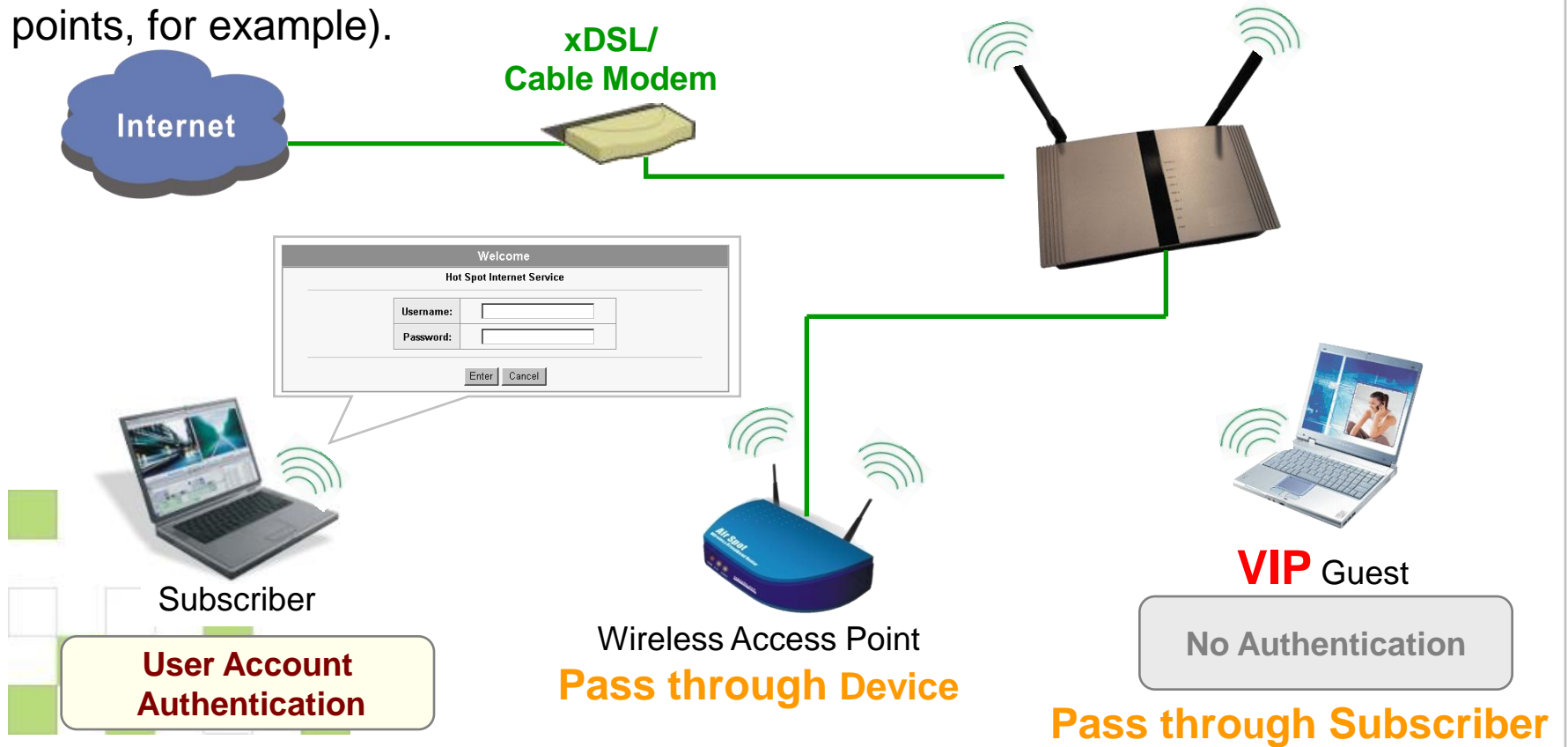
Pass Through IP/ MAC/ URL Address

Pass Through Destination allows the subscribers to access specified Internet websites without authentication, which is useful to promote selected services.



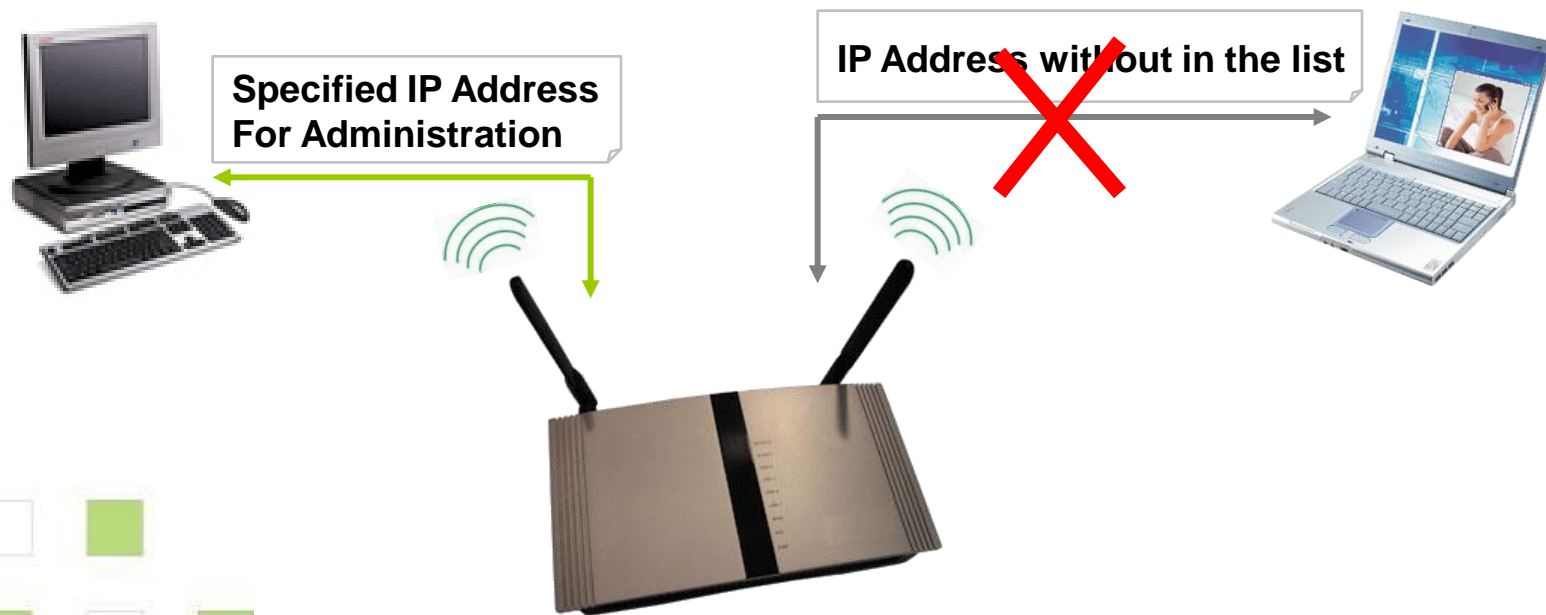
Pass Through IP/ MAC/ URL Address

Pass Through Subscriber is useful for VIP users without authentication. Pass Through LAN device is also useful for devices that do not have a web browser (cash registers, for example) or that are connected with LAN port (wireless access points, for example).



Administration Access Control

The WG-602 integrates a secure administration access control list that checks the source (IP address) of administrator logins. A login is permitted only if a match is made with the list contained on the WG-602. If a match is not made, the login is denied, even if a correct login name and password are supplied.



Filtering

FILTERING

Filtering:

HTTP Message to display when a website is blocked

Please enter new restricted destination (up to 50 entries)

URL or Website:

Start / End IP Address:
 ~

IP Address:
Subnet Mask:

Add to List

Restricted Destination List

No.	Active	Address List	Delete
001	<input checked="" type="checkbox"/>	210.66.37.242	<input type="checkbox"/>
002	<input checked="" type="checkbox"/>	www.any.com	<input type="checkbox"/>
003	<input checked="" type="checkbox"/>	210.66.37.243 ~ 210.66.37.250	<input type="checkbox"/>
004	<input checked="" type="checkbox"/>	10.1.2.100	<input type="checkbox"/>
005	<input checked="" type="checkbox"/>	10.1.3.100 ~ 10.1.3.200	<input type="checkbox"/>
006	<input checked="" type="checkbox"/>	10.1.5.1 / 255.255.255.0	<input type="checkbox"/>

Delete All

Filtering allows the system administrator to have a list of restricted destinations, which is useful to block specified Internet websites or Intranet areas.



Management

Feature

- ▶ Setting Wizard
- ▶ LAN Device Management
- ▶ Real-time Session List
- ▶ Syslog
- ▶ SNMP Management
- ▶ Status Report



Setting Wizard

Start your service in **5** minutes.

▶ INTERNET

▶ WIRELESS

▶ E-MAIL

▶ AUTHENTICATION

▶ BILLING

▶ PRINTER

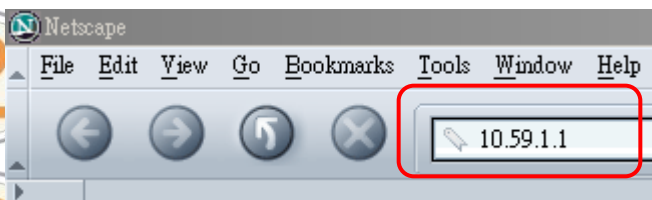
▶ ACCOUNTING

▶ SYSTEM

1

Open your browser and type gateway-IP-address.

2

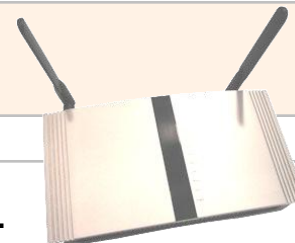


3

Setup your Wireless.

4

Define your Service Content.



5

Change administrator password.

LAN Device Management

The administrator can directly remote control the devices under the LAN via WG-602 and check the status (OK/Fail) of the LAN devices.

LAN DEVICES

Accommodate up to 50 entries

Polling Interval: (min)

No.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1			Global IP http://210.66.37.22			TCP	Wired
2						TCP	Wired
3						TCP	Wired
4						TCP	Wired
5						TCP	Wired
6						TCP	Wired
7						TCP	Wired
8						TCP	Wired
9						TCP	Wired
10						TCP	Wired

**Wireless
Subscriber Gateway**

**xDSL /
Cable Modem**



LAN DEVICES

Accommodate up to 50 entries

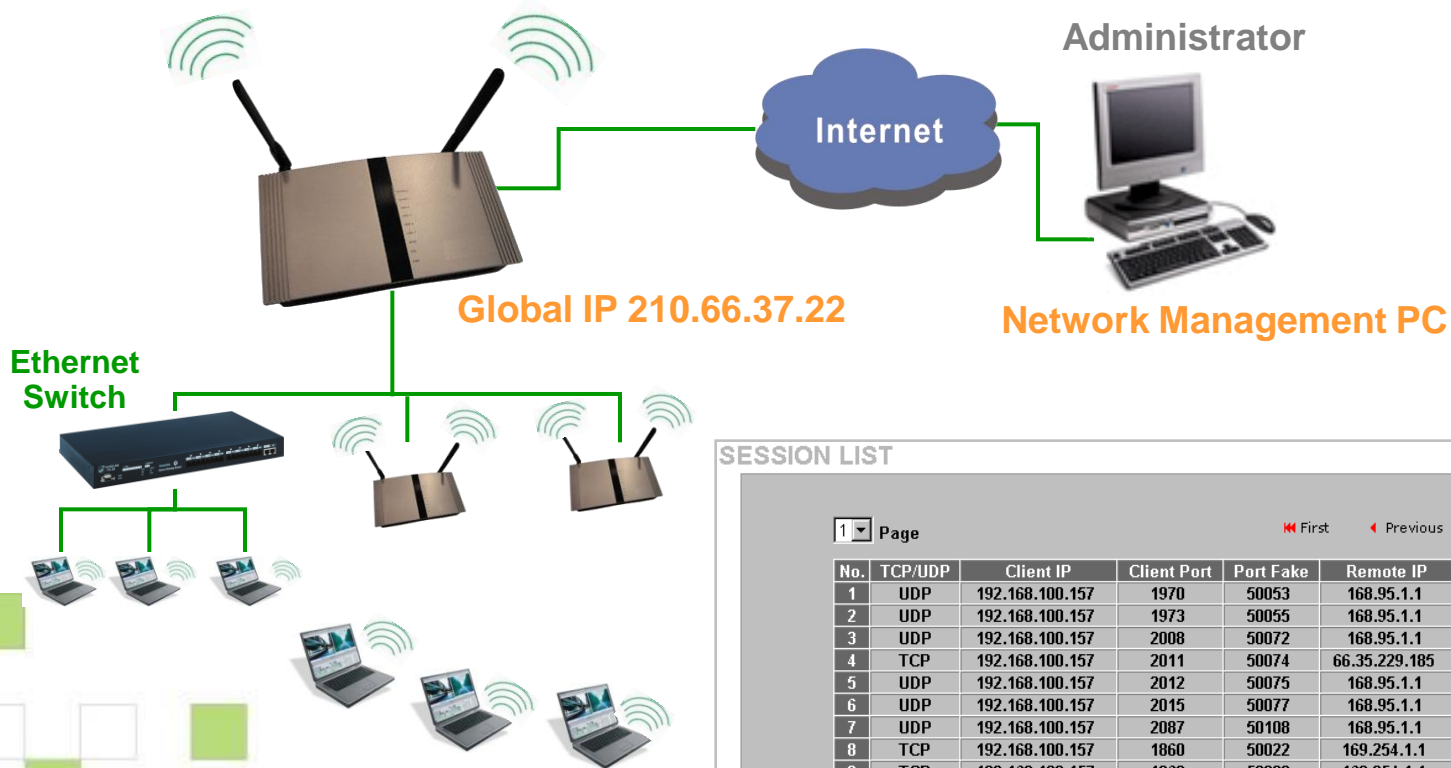
Administrator

<http://210.66.37.22:60006> (in)

No.	Device Name	Virtual Port (60001~60050)	Device IP Address	Device Server Port	Device MAC Address	Application	Interface
1	Admin	OK	210.66.37.22	60006	00:90:0e:00:25:3d	TCP	Wired

Real-time Session List

The remote site administrator could monitor the real time usage status WG-602 via Session list page.



SESSION LIST

1 Page First Previous Next End

No.	TCP/UDP	Client IP	Client Port	Port Fake	Remote IP	Remote Port	Idle
1	UDP	192.168.100.157	1970	50053	168.95.1.1	53	25
2	UDP	192.168.100.157	1973	50055	168.95.1.1	53	25
3	UDP	192.168.100.157	2008	50072	168.95.1.1	53	0
4	TCP	192.168.100.157	2011	50074	66.35.229.185	80	0
5	UDP	192.168.100.157	2012	50075	168.95.1.1	53	0
6	UDP	192.168.100.157	2015	50077	168.95.1.1	53	0
7	UDP	192.168.100.157	2087	50108	168.95.1.1	53	25
8	TCP	192.168.100.157	1860	50022	169.254.1.1	445	179
9	TCP	192.168.100.157	1862	50023	169.254.1.1	139	179

1 Page First Previous Next End

Syslog

WG-602 provide 5 categories of logs which will send to specified Syslog server. Network manager can know the network status according to the following logs.

1. System Category

- System information
- System Boot Notice
- System Manager Activity information

2. Subscriber

- Wireless Association Information
- Logged-in Users

3. Proprietary Accounting

- Account Created
- Account Activated
- Subscriber Trace

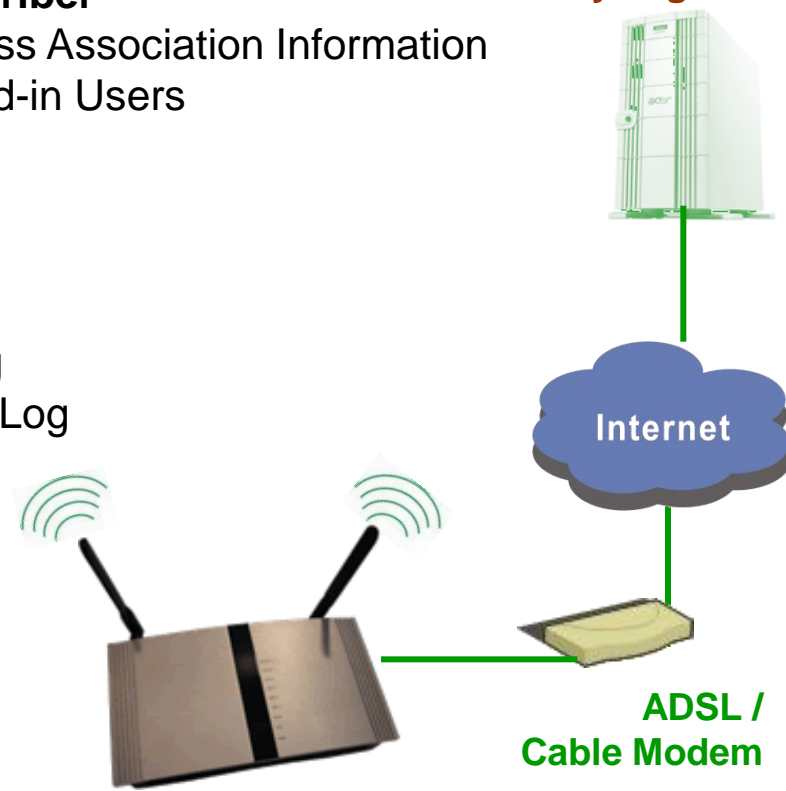
4. Billing

- Billing Log

5. LAN Devices Management

- LAN Devices Information
- LAN Devices Alarm

Syslog Server



SNMP Management

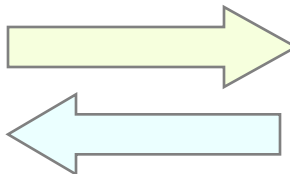
The WG-602 supports SNMP (Simple Network Management Protocol). Each unit acts as an SNMP agent so that the network connecting status and configuration information may be accessed remotely through the SNMP manager, which enables centralized traffic and fault monitoring.



MIB Browser

SNMP Port 161

1. Get
2. Get Next
3. Get Bulk
4. Set



SNMP Agent

MIB-II Standard Support

System Status

○ System Status (Web Management)

The function displays current system basic information including the service connection message, host name, LAN, WAN, DHCP Configuration, DNS, E-mail Redirection, SSL Certificate, network traffic Information and the system firmware version number.

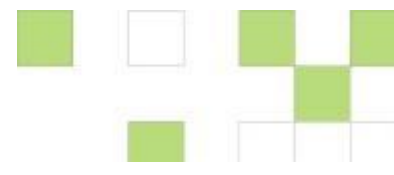


○ Status Report (Account Generator Printer)

You can use account generator printer to print the user accounts information and system status.



System Status



SYSTEM QUICK VIEW

- ▶ SYSTEM
- ▶ WAN / LAN
- ▶ SERVER
- ▶ AUTHENTICATION
- ▶ RADIUS
- ▶ BILLING
- ▶ ACCOUNTING
- ▶ CREDIT CARD
- ▶ KEYPAD
- ▶ CUSTOMIZATION
- ▶ PASS THROUGH
- ▶ FILTERING
- ▶ SHARE
- ▶ PORTAL PAGE
- ▶ ADVERTISEMENT
- ▶ WALLED GARDEN
- ▶ DDNS
- ▶ LAN DEVICES
- ▶ SYSLOG
- ▶ WIRELESS

System refresh ↻

System/Host Name	Wireless	Firmware Version	2.00.00
Location Name	KuanFu, Taipei	Domain Name	handlink.com.tw
System Time	2003/01/01 12:00:00	System Up Time	01D:20H:35M:46S
WAN MAC address	00:90:0E:00:00:04	LAN MAC address	00:90:0E:00:00:05

Network

WAN Status	Not Established	WAN Type	PPPoE
WAN IP Address	11.22.33.44	LAN IP Address	192.168.1.1
WAN Subnet Mask	255.255.255.214	LAN Subnet Mask	255.255.255.0
Default Gateway	22.33.44.55	DNS	168.95.1.1 168.95.192.1

Wireless

Wireless Service	OK / Fail	ESSID	Wireless
Wireless Channel	6	WEP	Mandatory / Disable

Traffic




WAN	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000
LAN	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000
Wireless	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000




DNS	Primary DNS Server	168.95.1.1
	Secondary DNS Server	

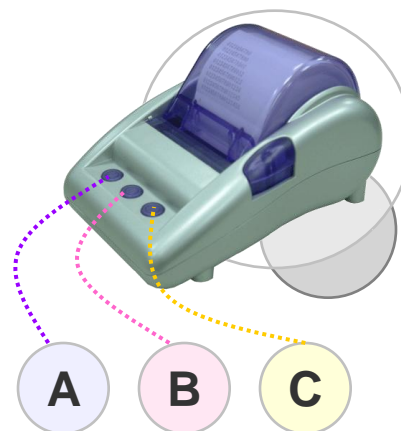
SYSTEM QUICK VIEW

Status Report

Press combination hot key on the AG-300E or keypad will printout the status report immediately

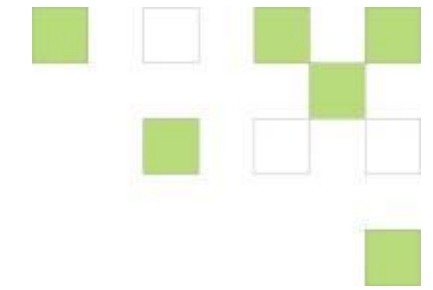
Status Report	
Items	Keypad Hot Key
Daily Account Report Printout 	Press ABCAA
Monthly Account Report Printout 	Press ABCBB
System Status Report Printout 	Press ABCCC
Network Report Printout 	Press ABCAB

Status Report	
Items	Keypad Hot Key
Daily Account Report Printout 	Press *1mddd
Monthly Account Report Printout 	Press *2mm
System Status Report Printout 	Press *3
Network Report Printout 	Press *4





Network		
ITEM	DESCRIPTION	
WAST	Not Established	
WSTA	Fail	
SYST	01D:20H:35M:46S	
WATD	1234567890	
WARD	1234567890	
WATE	1234567890	
WARE	1234567890	
LATD	1234567890	
LARD	1234567890	
LATE	1234567890	
LARE	1234567890	
WLTD	1234567890	
WLRD	1234567890	
WLTE	1234567890	
WLRE	1234567890	
2002/08/28 14:39:07		
---END---		



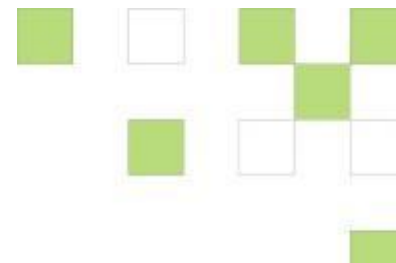
Use AG-300E



Use Keypad



System Status



- ▶ SYSTEM
- ▶ WAN / LAN
- ▶ SERVER
- ▶ AUTHENTICATION
- ▶ RADIUS
- ▶ BILLING
- ▶ ACCOUNTING
- ▶ CREDIT CARD
- ▶ KEYPAD
- ▶ CUSTOMIZATION
- ▶ PASS THROUGH
- ▶ FILTERING
- ▶ SHARE
- ▶ PORTAL PAGE
- ▶ ADVERTISEMENT
- ▶ WALLED GARDEN
- ▶ DDNS
- ▶ LAN DEVICES
- ▶ SYSLOG
- ▶ WIRELESS

SYSTEM QUICK VIEW

SYSTEM QUICK VIEW

System

[refresh](#)

System/Host Name	Wireless	Firmware Version	2.00.00
Location Name	KuanFu, Taipei	Domain Name	handlink.com.tw
System Time	2003/01/01 12:00:00	System Up Time	01D:20H:35M:46S
WAN MAC address	00:90:0E:00:00:04	LAN MAC address	00:90:0E:00:00:05

Network

WAN Status	Not Established	WAN Type	PPPoE
WAN IP Address	11.22.33.44	LAN IP Address	192.168.1.1
WAN Subnet Mask	255.255.255.214	LAN Subnet Mask	255.255.255.0
Default Gateway	22.33.44.55	DNS	168.95.1.1 168.95.192.1

Wireless

Wireless Service	OK / Fail	ESSID	Wireless
Wireless Channel	6	WEP	Mandatory / Disable

Traffic

WAN	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000
LAN	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000
Wireless	TxData:0000000000 RxData:0000000000 TxError:0000000000 TxError:0000000000

Firmware Upgrade

The scheduled firmware upgrade is a program that enables an automatic upgrade to the latest firmware version through the TFTP server.

The system allow administrator to upgrade the firmware via HTTP or TFTP.

FIRMWARE

Manual Firmware Upgrade

Scheduled Firmware Upgrade

Disable

Enable

TFTP Server IP:

File Synchronization:

Frequency

[View Sample Code](#)

Weekly

Sunday Hour Minute

Daily

Hour Minute

Hourly

Minute

Apply



TFTP Server



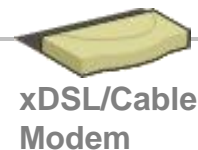
Web Browser



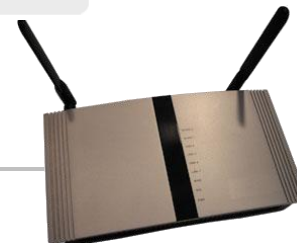
HTTP



Internet



xDSL/Cable Modem



Backup and Restore

The system allow administrator to save, restore or reset configuration parameters of Wireless Subscriber Gateway.

CONFIGURATION

Backup

Click Backup to backup the system configuration from this device to your computer or to the remote TFTP server.

Remote TFTP Server IP Address:

File Name:

Apply

Restore

To restore your stored system configuration to this device.

Local PC File Path

Apply

Remote TFTP Server IP Address:

File Name:



Apply

Reset the system back to factory defaults

Keep subscriber profile

Apply

Marketing Cooperation

Feature

- ▶ Customized Login Page
- ▶ Login Page Redirection
- ▶ Advertisement Link
- ▶ Walled Garden



Customized Login Page

The WG-602 provides the standard login page for subscribers to input username and password. However, some service providers like hotels, coffee shops and airports may want to show their customized page or redirect their hosted page for promotion or corporate image, therefore WG-602 allows service provider or venue owner to specify or modify the login page.

Frame

Top Frame: URL

page

Down Frame: This frame will show the standard login page

Title

Welcome

(Max. 80 characters)

Subtitle

Hot Spot Internet Service

(Max. 80 characters)

TOP Frame

Please contact us if you l

(Max. 240 characters)

Copyright

Copyright (c) 2002-2004 A

(Max. 80 characters)

Background Color

FFFFFF

View Color

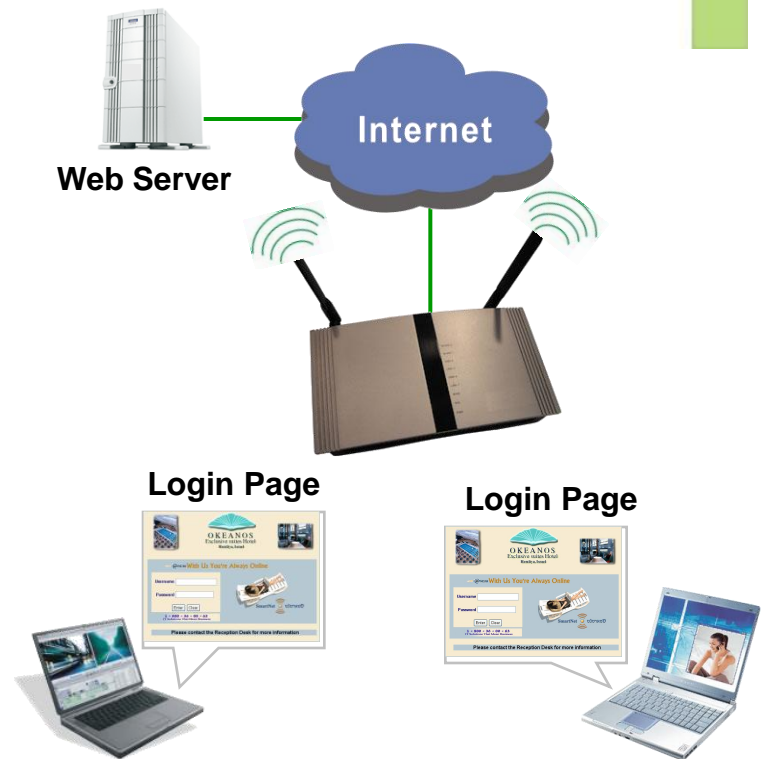
Bottom Frame

Frame Login Page



Login Page Redirection

This allow service provider to redirect the subscriber's browser to a specified home page.



Redirect

Redirect Login Page URL:

Code

Advertisement Link

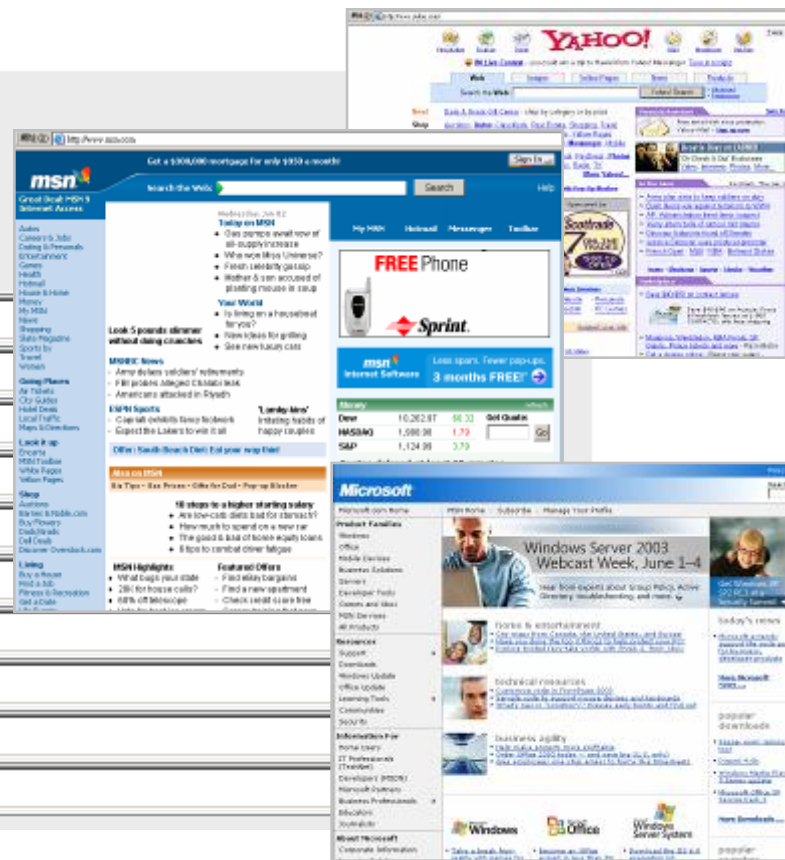
The system allow service provider to input 10 URL links for advertisement link purpose. The 10 URL Links will pop-up at first time or every specified time “randomly” or “from 1 to 10”.

ADVERTISEMENT

Frequency One Time Only Every Min(s)

Sequence Randomly From 1 to 10

Link 1	www.yahoo.com
Link 2	www.msn.com
Link 3	www.microsoft.com
Link 4	
Link 5	
Link 6	
Link 7	
Link 8	
Link 9	
Link 10	



Walled Garden

We prepare ten URL links that allows subscriber to access the specific Web pages even they didn't have a username or password. It's free trying and can use for advertisement.

WALL GARDEN

Link 1	Name	Handlink
	URL	www.handlink.com
Link 2	Name	MSN
	URL	www.msn.com
Link 3	Name	Microsoft
	URL	www.microsoft.com
Link 4	Name	
	URL	
Link 5	Name	
	URL	
Link 6	Name	
	URL	

Welcome
Hot Spot Internet Service

Username:

Password:

Enter Cancel

Handlink
MSN
Microsoft

Copyright (c) 2002-2004 All Rights Reserved.

Tracing Sessions

Session Trace	
Session Trace	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
TFTP Server IP address	Primary TFTP Server IP Address <input type="text"/>
	Secondary TFTP Server IP Address <input type="text"/>
	Send Session Trace log file every <input type="text" value="10"/> minutes. (5~1440) <small>(Note: Session Trace log file will be sent also when collected 50 logs)</small>
<input type="button" value="Apply"/>	

Session Trace

Session log file example:

1. File Name included SystemName and Date/Time.(DDMMYYHHMMSS)

For example: hotspotA070404153212.txt

2. File format is txt

3. Content : system name, username, date/time, source IP/MAC/Port, Destination IP/Port.

Txt file example:

<u>System Name</u>	<u>Username</u>	<u>Date/Time</u>	<u>Source IP</u>	<u>Source MAC</u>	<u>Source Port</u>	<u>Destination IP</u>	<u>Destination Port</u>
HotspotA	Wer12349	21Apr04135501	10.59.1.1	00900e00123c	3124	210.66.37.245	80
HotspotA	asdgrt124	20Apr04112222	10.59.1.2	00900e001212	2341	111.21.2.2	80
HotspotA	qwe12342	20Apr04111933	10.59.1.2	00900e001212	2341	111.21.2.2	80
HotspotA	12aszxcv3	20Apr04111525	10.59.1.2	00900e001212	2341	111.21.2.2	80
HotspotA	1wert5678	20Apr04105945	10.59.1.2	00900e001212	2341	111.21.2.2	80

4. Every session log will save in a temporary RAM, once the collected 50 logs or the interval time specified in web page reach, system will send the log file which included collected log to specified TFTP server. Then the previous save log will be cleared.

5. In case Authentication =Disable, Username information will be blanked.

Q & A

