





# Advanced Hotspot Gateway Products

*WiFi Hotspots made easy so you can provide a better Internet service for your guests and visitors* 



A Guide to the Operation of Guest Internet Hotspot Gateway Products

**Revision 2.3 Software** 

Manual Revision 2.3.7

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# FCC STATEMENT

#### **Class A Digital Device**

This equipment complies with Part 15 of the FCC rules. Operation is subject to the following conditions.

- 1. The device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

#### Federal Communications Commission Notice

This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference.

The equipment can radiate radio frequency energy. If not installed and used in accordance with the instructions in this manual, it may cause harmful interference to radio, television or telecommunications reception, which can be determined by turning the equipment off and on. The user is encouraged to try and correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and the receiver
- Power the equipment via a different electrical circuit from that which the receiver is connected
- Consult the dealer who installed the equipment, or an experienced radio frequency technician

#### **Modifications**

The FCC requires that no changes or modifications may be made to this device that are not expressly approved by FIRE4 Systems Inc, and Guest Internet Solutions. Any unauthorized changes may void the users authority to operate the equipment.





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#### Introduction

You are planning to use a Guest Internet gateway to provide a WiFi hotspot Internet service for people that frequent your business. First be aware of an issue with wireless routers that will prevent your WiFi hotspot working if the wireless router is not configured correctly. Please avoid using wireless routers unless you are familiar with configuring them as bridge mode access points. Note also that wireless routers intended for residential use have limited range and you will have much better wireless coverage by installing a commercial grade high power access point.

Our customers requested the new features included with this firmware release (listed below). We work very hard to ensure that our customers get the product features that they need. We always value feedback from our customers regarding new features that they would like to have in future versions. If you have a request for a new feature then please contact us at: **info@guest-internet.com** with your suggestions.

#### AVOID USING WIRELESS ROUTERS WITH GUEST INTERNET GATEWAYS

All GIS gateway products authenticate users by issuing an IP address to each user, and recording the MAC address of each users computer. The GIS gateway requires a wireless access point to be connected for WiFi access. If a wireless router is used to connect users then the login and authentication process will become intermittent. DO NOT use a wireless router such as the Linksys WRT-54G unless you are familiar with NAT'ing devices and how to disable the NAT'ing service. A wireless router, such as the Linksys WRT-54G, can be used if (a) the WAN port of the router is left disconnected, and (b) the router DHCP service is disabled.

Always install the GIS gateway together with a wireless access point configured in bridge mode (default mode) to the GIS gateway LAN port. We recommend that you use high power, long range commercial grade access points with GIS gateway products, such as those manufactured by Engenius and Ubiquiti.

Wireless routers intended for residential use have a limited range and area of coverage due to low RF power output. Wireless routers are generally not suitable for a hotel or restaurant wireless Hotspot installation.

#### **UPGRADING EARLIER FIRMWARE**

Upgrades are always free:	Guest Internet products can be upgraded to the latest firmware specification free of charge. Please see our website support page to request a firmware update. Install the upgrade file using the firmware upgrade feature in the menu. When the upgrade has been initiated leave the unit powered up for 10 minutes before using it or powering it down. This time is required to store the new firmware in the processor memory.
NEW GATEWAY FEATURES	
Data collection on login	The user login process will have user response fields that can optionally be included in the login process. On completion of the login process the user responses are sent via email to the hotspot operator.
GIS-R10/R20 monitoring	The device table has been increased to 100 entries
GIS-R10 / R20 port forwarding	The forwarding rules table has been increased to 100 entries
Ticket printer	All GIS gateway products can be used with the Guest Internet ticket printer (GIS-TP1) that will print access codes on demand using any tablet computer.
FUTURE GATEWAY FEATURES	
Global Management:	The gateway firmware can be upgraded to become a managed node in the Guest Internet 2- tier server based management and accounting system. Guest Internet will offer a server that includes: central management of devices and groups of devices, central failure monitoring of devices, comprehensive reporting that includes usage and billing for both devices and groups, global access codes, and credit card reporting. The management system is suitable for a multi-



device, multi-site network and there are no restrictions on the number of managed devices.



### 1: Provide a Public Internet Hotspot Service for your Guests and Visitors

Many restaurants, bars, hotels and motels offer free wireless Internet for guests, or charge guests for the Internet service. Guests and travelers make reservations based on Internet availability because they have gadgets that use wireless Internet: iPhones®, iPod Touch®, laptop computers, and Blackberries®

Our products provide an easy and economical solution for any restaurant or lodging business that wants to begin offering Internet for guests, or wants to upgrade an existing system.

Restaurant and lodging businesses that already provide Internet for guests can install our products to improve their Internet service quality and increase returns.

- Our low cost products are tough, reliable and very simple to install and can be used in many different applications
- You can brand your Internet service with our easy to use wizard
- Use your guest Internet service to advertise your special offers and promote your website
- You can control Internet access to prevent guests abusing the service
- Choose to provide free Internet or charge guests for your Internet service

Many locations can benefit by providing Internet services to the public. Business benefits include improved sales, more returns, and more walk-in customers.

- Restaurant
- Coffee bar
- Public library
- Truck stop
- Motel
- RV park
- Visitor center
- Public park
- University
- Student dorms
- Marina
- Fashion show
- Bus station
- Trade show
- Event reception
- Fashion show

- Train station
- Music concert
- Theater
- Golf club
- Casino
- Sports club
- Gymnasium
- Bookstore
- Beach kiosk
- Hospital
- Airport
- Shopping mall
- Hotel
- Resort
- Multi-tenant condo
- Church

Internet access can be offered for free or can be charged for by selling access codes. Advertising can also generate revenue for both free and charged Internet access. Free controlled access can be provided where authorized customers are provided with access codes. The duration of access codes is selected when they are generated.





Guest Internet gateway products are very robust and reliable as they are manufactured to commercial grade standards. Wireless access points can be connected to the gateway to provide WiFi wireless Internet. Any type of WiFi enabled device can receive the signal: including PC laptops, MAC computers, netbook computers, iPhones<sup>™</sup>, and Blackberries<sup>™</sup>.

Guest Internet products have a 'login page' that requires the user to agree to the terms and conditions, and possibly pay a fee for an access code. The business owner decides if Internet will be free or if guests will pay for the service.



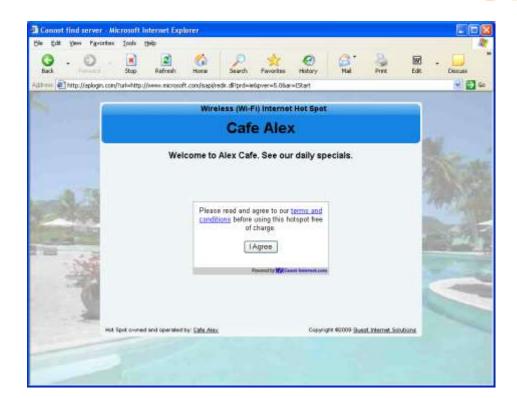
The login page is very important for the business providing the Internet service as it has several essential features:

- Brand the Internet service
- Provide the business contact information for guests
- Encourage the guest to go to the business Web site
- Guests must agree to a disclaimer, so the business avoids liability
- Advertise products or services provided by the business
- Control who uses the Internet with access codes
- Charge for Internet access by selling access codes

This manual explains how to install a Guest Internet gateway product and create a custom login page ready for guests to access the Internet. The only decision you have to make is if you will provide free Internet or charge for the service.

Two login page examples are shown below. The first is an example of unlimited access where the user has to click on a button agreeing to the terms and conditions. The second example shows controlled access: the user has to enter an access code that has been generated using the code management admin page





Login Page Example: the user has to accept the terms and conditions

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Die Edit Vew Figurates Inde 1940	A.
Sach - O - R R C - Sach Favorites Holay Hal Pret Edit	- Decus
Autom Intpul/www.microsoft.com/sapilyedr.dliprd=e6pver=5.05ar=15tart	· 🔂 🕼
Wireless (Wi-Fi) Internet Hot Spot	
Cafe Alex	15 -
Welcome to Alex Cafe. See our daily specials.	1
Please enter your code Connect me Contect reception if you would like to use this Hot Spot	
Read of the second seco	1225
Hot Spot owned and operated by: <u>Cale Alex</u> Copyright #2000 <u>Quest Internet Solutions</u>	
A FIRST	
	(a)

Login Page Example: in addition to accepting the terms and conditions, the user has to enter an access code provided by the business owner





### 2: Principal features of Guest Internet Gateway Products

When any business provides an Internet service for guests, visitors and customers, it is very important to prevent abuse of the services, otherwise bad things can happen;

People are using your Internet service without your consent.

A free service can become a headache if users start complaining about the poor performance of the Internet service.

Users start surfing inappropriate website in public areas.

The DSL or Cable service provider can threaten to disconnect the service because users are sharing illegal files.

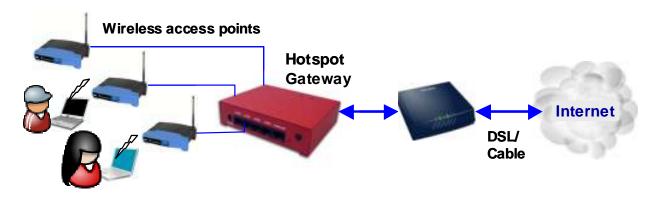
A free service starts costing the business a significant amount of money as use is far greater than expected

The Hotspot gateway give you control of the Internet service that you provide for your guests, visitors and customers. You can prevent unauthorized use, and prevent any authorized user abusing the service.

The Hotspot gateway is installed in your network between the wireless access point, and the DSL or Cable router. See the diagram below. All communications between your users and the Internet flows through the Hotspot Gateway. The gateway allows Internet access for authorized users, and blocks people not authorized. The gateway also controls how users access the Internet. You choose how your users will access the internet by choosing to set the features described in this manual.

The gateway is very easy to setup and use. A setup Wizard will be displayed on your computer the first time that you connect your computer to the gateway. Simply follow the steps described in the Quick Start Guide that is shipped with the product.

#### Connecting the Hotspot Gateway



#### Choosing the Right Hotspot Gateway

Guest Internet manufactures a range of Hotspot gateways that provide different levels of performance and features. The gateway performance is specified as the number of users that can use the Hotspot simultaneously. This is called the maximum number of concurrent users. The maximum number of concurrent users can only be reached when the Internet connection has a minimum speed. The maximum number of concurrent users is also reduced when several users are downloading large files such as video or music files. The following summary (next page) lists the Guest Internet products, and the parameters for each product.





	The legin page is the most important feature of the Ustanet estauro. All Cuest Isternet
Login Page	The login page is the most important feature of the Hotspot gateway. All Guest Internet gateways provide three levels of login page customization;
	Twelve pre-prepared login pages are contained in the gateway, choose one of the twelve login pages when answering the setup Wizard questions.
	Any photo or design background can be uploaded in a JPG format and displayed as part of your login page. Combine a photo of your business and include your logo using Photoshop® to create a custom login page.
	Design and program your login page using HTML. This procedure takes longer but gives the best results. Create a login page that looks like your website and then create a 'Walled Garden' to make sure that your users are familiar with your website.
Disclaimer Text and Editor	When any user connects to the Internet they have to click a button and agree to the terms and conditions of use. This is very important and protects the service provider from possible legal action at a later date.
	A standard disclaimer text is installed that is appropriate for US laws. A disclaimer editor permits the text to be modified so that additional requirements can be added, or the text can be translated to a different language.
Access Codes	The login page can be setup so that the user only has to click on a button to agree with the terms and conditions, however there is no control over who can access the Internet.
	Alternatively the gateway can be setup in the controlled access mode. Users can be authorized to access the Internet by generating access codes and giving one to each user. Access codes can have a time duration from 30 minutes to 180 days and can also be unlimited. An access code can also be terminated at any time.
	Access codes ensure that only authorized users get access to the Internet.
Reports of Usage	The Hotspot use can be monitored at all times by checking the usage report. This report shows the number of users connected (obtained IP addresses) and authenticated (entered a valid access code). The MAC address of each user is shown and the bytes each user has transferred has shown. Any users abusing the Hotspot service can be easily seen. A check box is provided to include the users MAC address in the blocked MAC list, thereby preventing the user accessing the Internet.
Timer/Calendar for Availability	Many Hotspots are available 24x7 in businesses such as hotels. However the Hotspot in a dental office should only be available during business hours e.g. 9AM to 5PM). A 7-day timer /calendar is provided to set availability of the Hotspot in 1 hour increments. Outside the time that the Hotspot is activated the user will get a login screen with the message 'Hotspot not available'.
Content Filter	The content filter blocks access to websites that are not suitable for a public environment. Content filtering services are provided by <b>OpenDNS</b> who have a basic free service and a range of paid services when advanced content filtering rules are required.
Bandwidth Control	All gateway products provide an overall bandwidth control where download and upload speeds are set independently. In addition each access code can have a download and upload speed associated that will override the overall bandwidth setting.
	This feature enables tiered use of the Hotspot. A basic free low speed service can be provided, and augmented with a paid service where the bandwidth is much higher. Typical applications for such a service are student accommodation and motels.
Firewall	GIS gateway products include a firewall that stops users on the public network (DMZ) accessing computers in the business network behind the gateway. This feature permits the public network and business network to share one DSL or Cable circuit.
	The GIS-K2 also includes a second firewall that protects business computers (such as PoS terminals) from access via the Internet.
Remote Management	All gateway products can be managed from a remote location, provided that the network DSL or Cable service has a fixed IP, and that the DSL/Cable router has a port forwarding
🙈 Guest	





feature to provide access to the Hotspot gateway. In the case where the DSL or Cable service has a dynamic IP allocation the Hotspot gateway can be accessed remotely using the DynDNS service. The Hotspot gateway has a DynDNS agent installed to permit the network IP address to be located via the DynDNS server. A free test account is provided by DynDNS, and the monthly account fee is very low. **Remote access to Wireless** The Hotspot gateway port-forwarding feature allows access to devices from outside the network (wireless access points) that are connected in the public network (gateway LAN **Devices via Port** ports). This feature can be used in conjunction with the monitoring and alerting feature to Forwarding provide complete remote management and support for the Hotspot network. Monitoring and Alerting It is very important that a Hotspot operator find out that a wireless network has problems before the users do to avoid stressful calls and complaints. All our Hotspot gateways can monitor LAN attached devices, such as wireless access points, for failure. The failure warning is sent out via email to the owner or operator of the network. The installer can use an existing email SMTP service to send the message. In many cases however the network provider who offers the email service is not the one that the gateway is connected to. All our gateway products have an agent for the **STMP2go** service that permits an email to be sent out from any network. The SMTP2go service has a very low monthly charge and the benefits of this service far outweigh the small cost. **Allowed and Blocked IP** When any computer connected to the public network must access the Internet without requiring the login page then the device MAC address is included in the MAC bypass table. and MAC Addresses Web sites that must be seen by users without login can have their IP addresses or URL's included in the IP bypass table. This feature permits a walled garden login when implemented in conjunction with the custom login page feature. When users abuse the Hotspot service then their computer MAC addresses can be blocked. Look in the usage report table and identify users who are causing a lot of traffic. Then click on the block MAC address to block that user from the Internet. The LAN port configuration is set permanently as a DHCP server. The reason for this is that Network Port IP addresses must be allocated to users as the IP's are used to authenticate each user. Configurations Other LAN port parameters can all be modified. The DHCP start and end addresses are used to set the limit for the maximum number of users. The WAN port can be either a DHCP client or can have a fixed IP. When the content filter is activated the WAN DNS settings are replaced with those of OpenDNS. The product configuration can be saved in a backup file. If the product is replaced or Backup and Restore the configuration changes are made but previous settings are required then the configuration Configuration file can be restored. The configuration file of any gateway model can be restored on any other gateway model. All gateway models use an identical file structure. Firmware upgrades are released periodically for all gateway products. The upgrades include **Upgrade Firmware** new features that have been requested by customers. We also work on product performance improvements. Firmware upgrades are free for our customers. There will never be a charge for the latest firmware. The tables below summarize the features provided with each product model Summarv



Performance

**Access Control** 

Perfo	rmance	GIS-K2	GIS-R2+	GIS-R3	GIS-R4	GIS-R5+	GIS R6+	GIS R8	GIS-R10	GIS-R20
	Recommended maximum number of concurrent users (no limit is imposed)	50	50	100	100	150	200	250	250	500
Ċ	Maximum throughput (bits/second between the LAN and WAN ports)	20 Mb/s	10 Mb/s	20 Mb/s	20 Mb/s	30 Mb/s	40 Mb/s	45 Mb/s	2x45 Mb/s	2x100 Mb/s
	Access code database size, maximum number of entries, recycled when codes expire	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
	Robust commercial grade equipment suitable for any business environment	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
$\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{\mathbf{$	LCD status display showing time, users, and system error messages					$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
6	Built-in WiFi Wireless providing an area of coverage of 2000 sq ft	$\checkmark$								

Acces	s Control	GIS-K2	GIS-R2+	GIS-R3	GIS-R4	GIS-R5+	GIS-R6+	GS-R8	GIS-R10	GIS-R20
	Login page: library or custom login page with disclaimer editor	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$
R	Access control: generate pass codes with many duration and control options	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	V
7	7-day timer-calendar which limits Internet access to business opening hours	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	7
0	Connected, authenticated and blocked user status information	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	Y
X	Content filter: adult website blocking for a family friendly service	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	1	$\checkmark$	$\checkmark$	7
1	Speed control: prevent data hogs consuming your bandwidth	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	1



### Management

Manag	gement	GB-K2	GIS-R2+	GIS-R3	GIS-R4	GIS-R5+	GIS-R6+	GIS-R8	GIS-R10	GIS-R20
$\bigcirc$	Remote access allows management of the gateway from anywhere in the world	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	1	$\checkmark$
	Data logging permits tracking of Internet use with report downloads	$\checkmark$								
	Log hotspot user information, archive via email to comply with laws and regulations	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$
	Management of network devices remotely via port forwarding (# of devices)	25	25	25	25	25	25	25	100	100
	Failure monitoring: receive an email a lert if a wireless AP fails (# of devices)	25	25	25	25	25	25	25	100	100
	Backup and restore: save the configuration data for configuration recovery	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	√	$\checkmark$

### Security

Secur	ity	GB-K2	GIS-R2+	GB-R3	GB-R4	GIS-R5+	GIS-R6+	GIS-R8	GIS-R10	GIS-R20
$\bigcirc$	PCI compliant firewall: protects y our business computers from data theft	$\checkmark$								
	Virus and Trojan blocking which eliminates network performance problems	$\checkmark$	1	$\checkmark$						
	Block illegal P2P downloads to avoid Internet service disconnection lawsuits	$\checkmark$		$\checkmark$						
$\mathbf{O}$	Block websites so hotels can prevent loss of income such as pay-per-view	$\checkmark$								
-+x	Track individual network usage and ban / restore abusive users	$\checkmark$								
Ø	Increase reliability with multi-WAN load balance and fail-over								$\checkmark$	$\checkmark$



Billing

Billing		GIS-K2	GIS-R2+	GIS-R3	GIS-R4	GIS-R5+	GIS-R6+	GIS-R8	GIS-R10	GIS-R20
1	Hotspot credit card billing via PayPal with no Guest Internet commission to pay	$\checkmark$		$\checkmark$						
\$\$\$	Credit card charge reporting via spreadsheet download and email announcement	$\checkmark$		$\checkmark$						
	Subscription service via a custom website that interfaces with the API	$\checkmark$								

Benefi	ts	GIS-K2	GIS-R2	GIS-R3	GIS-R4	GIS-R5+	GIS-R6+	GIS-R8	GIS-R10	GIS-R20
	Setup wizard: plug and play, very easy to install and operate	$\checkmark$								
	Free lifetime firmware upgrades for all models	$\checkmark$	√	$\checkmark$						
$\bigcirc$	3-year gateway product warranty	$\checkmark$	1	$\checkmark$						
	Free technical support with a knowledgeable engineer	$\checkmark$								
9	Integration with property management systems and point of sale terminals	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	1	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
	System expansion peripherals available: <u>Ticket printer</u> 13/Q2: <u>Central server</u>	√	1	$\checkmark$						

#### **Integrated Solution**

Guest Internet is committed to providing customers with an integrated product solution and we work with partners to achieve this goal.

Partners provide us with value-added channels and with additional functionality that we don't provide. Currently we have four functionality partners.

SMTP2go: Additional SMTP services for the gateway mail server

**OpenDNS**: Content filtering using their DNS service

DynDNS: Remote access service when the gateway network has a dynamic IP

PayPal: Payment services for the credit card billing feature





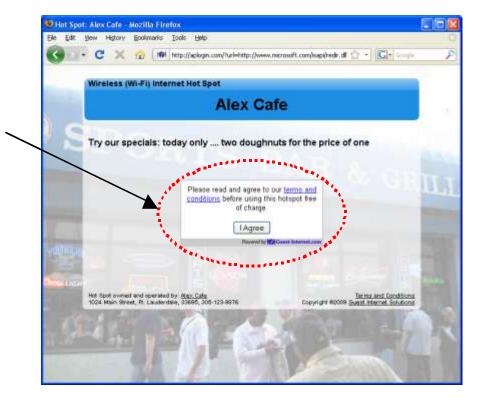
### 3: Choose to Provide Unlimited Internet Access or Controlled Internet Access

Before installing the Guest Internet router product you must decide if you want to provide unlimited Internet for your guests or if you want to control the access your guests have to Internet services.

Both unlimited access and controlled access show the guests your login page when their computer browser opens. Both options also require guests to click on a disclaimer button accepting the terms and conditions of use. You can edit and change our standard disclaimer document. The disclaimer is important to protect you if your guests download copyrighted files or illegal content.

Controlled access also adds the requirement that the guest must enter an access code. You generate the access codes using the Guest Internet gateway product and you determine who gets access codes and who does not. If you wish you can charge your guests for access codes. Please read later sections describing access code generation.

**Unlimited Internet Access** When unlimited Internet access has been selected during the configuration wizard setup process the guest tries to access the Internet but sees the custom login page in the browser. The custom login page provides business contact information that may be useful for the guest. A box is shown on the page that requires the guest to click on a button that says "I agree to the terms and conditions of use". The guest can read the terms and conditions of use document. The terms and conditions of use document can be modified to include local laws (see the later section).



When the guest has clicked on the button then a second page is shown with a button that says click to access the Internet. When this button is clicked the guest has access to the Internet. The web page that the guest initially requested (the guests home page) is also shown.

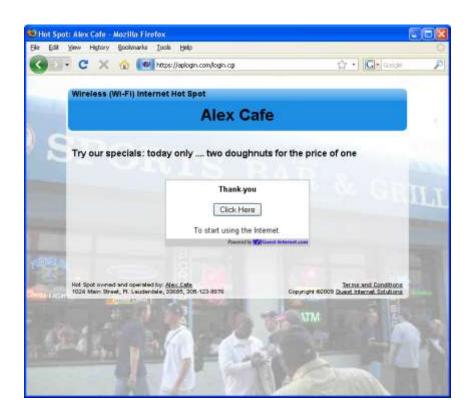


Click on `I agree' to disclaimer





The figure below shows the screen that the guest sees when the 'I agree..' button is clicked



In addition to the browser showing the Web page that was originally requested, a small window will open that provides a button for the guest to log out of the Internet service.

The figure below on the left shows the window that the guest sees when the 'Click here' button is clicked. When the guest has finished using the Internet and clicks on the 'Logout' button then the window changes to that shown on the right.

🕲 Wireless Hot-Spot Countdown 🔳 🗖 🔀	🥹 Wireless Hot-Spot Countdown 🔳 🗖 🔀
( 🍽 http://aplogin.com/timebox.cgi	( 🍽 http://aplogin.com/timebox.cgi?submit=+Logou 🏠
You will remain connected for 00h 00m 00s	
Logout	You have been logged out. Thanks.
Leave this window open. Click Logout when you are done.	[ <u>Close window]</u>

If the guest closes the window showing the remaining time then this information can be accessed once more by opening a new browser window and typing the URL:

#### http://aplogin.com

The time that remains for the guest's access code is shown on the screen.





There is also an alternative to uncontrolled access called open access. In this mode the login page is not displayed, however all controls are applied to the user, including content filtering, speed control, P2P blocking and other firewall rules. Open mode is ideal for a condominium or rental community where a login page is not required, however access controls are necessary.

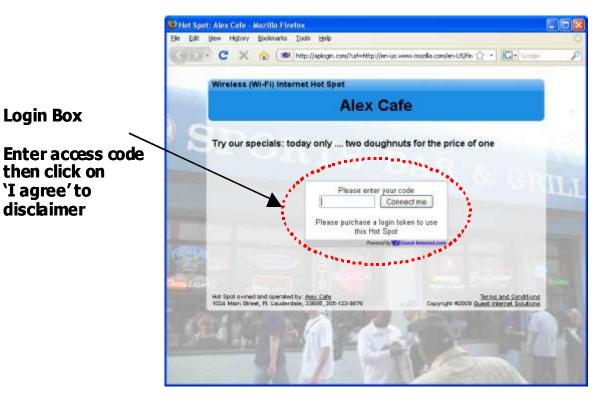
There is an option of uncontrolled access where information can be requested from the user before the user is permitted to access the Internet. Three data fields can be specified, where the fields might be name, phone number and email address. The email option is configured to send the information that is collected to the hotspot owner. Note that there is no verification of the information provided by the user.

# Controlled Internet<br/>AccessWhen controlled Internet access has been selected during the configuration wizard setup<br/>then the login process requires the guest to enter an access code.

When the guest opens a computer browser to access the Internet the custom login page will be shown in the browser window. The box shown on the page requires the guest to enter an access code and then click on a button that says, "I agree to the terms and conditions of use".

Access codes are generated within the Guest Internet gateway unit for use with only that unit: see later sections describing how this is done. Each access code has a fixed duration, determined when the code is generated. When the time expires the code cannot be reused.

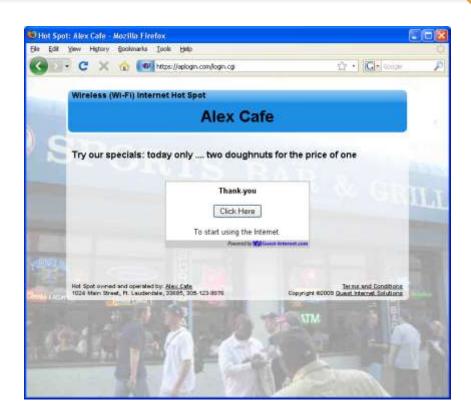
The login screen that the guest will see is shown below.



When the guest has typed in the access code and clicked on the button then a second page is shown with a button that says click to access the Internet. When this button is clicked the guest has access to the Internet. The web page that the guest initially requested (the guests home page) is also shown.

The figure below shows the screen that the guest sees when the 'Connect me' button is clicked.





In addition to the browser showing the Web page that was originally requested, a small window will open that provides a button for the guest to log out of the Internet service.

The figure below on the left shows the window that the guest sees when the 'Click here' button is clicked. When the guest has finished using the Internet and clicks on the 'Logout' button then the window changes to that shown on the right.

🕲 Wireless Hot-Spot Countdown 🔳 🗖 🗙	😻 Wireless Hot-Spot Countdown 💶 🗖 🗙
( 🍽 http://aplogin.com/timebox.cgi 🏠	( 101 http://aplogin.com/timebox.cgi?submit=+Logou 🏠
You will remain connected for 27d 17h 50m 28s	
Logout	You have been logged out. Thanks.
Leave this window open. Click Logout when you are done.	[ <u>Close window]</u>

If the guest closes the window showing the remaining time then this information can be accessed once more by opening a new browser window and typing the URL:

#### http://aplogin.com

The time that remains for the guest's access code is shown on the screen.





### 4: Features of Controlled Guest Internet Access

Controlled Internet access requires the guest to type an access code into the login page box. You will generate the access codes using the managed code feature. You can access the managed code feature by logging in to the gateway product as the administrator;

#### http://aplogin.com/admin

The screen will request you type in a username (**admin**) and the password that you will enter during the wizard setup process.

When you are logged in the select 'manage codes' shown in the menu on the left side of the screen.

You can generate codes that are valid from 30 minutes to 180 days and also unlimited time codes. You can generate single user or multi-user codes. Only one guest can use a single user codes and the code cannot be passed from one guest to another. Many guests can use multi-user codes simultaneously.

You decide who can access your Internet service by giving codes only to guests that you authorize. You can also sell codes to guests and provide wireless Internet as a paid service.

Some examples are included here to illustrate how codes can be used

- 1. Restaurant: Prevent guests at the restaurant next door using your Internet service by creating a one-day multi-user code that you can give to your guests when they ask for Internet access. Create a different multi-user code each day.
- 2. Hotel: Free Internet for guests; generate a unique code to give to each guest for the length of the stay. However if a visitor using the conference room wants to use the Internet then charge for a code (e.g. \$10/day).
- 3. Coffee bar: charge guests for Internet, each day download access codes and print onto adhesive labels.

Use your Internet service as a tool to attract customers. For example, if your competitor is charging for Internet then offer free Internet.

Take care how you offer Internet service for guests. For example a coffee bar that offers free unlimited Internet might find that guests are occupying tables to use the Internet and not buying coffee or food. This problem can be easily solved using Guest Internet gateway products. Give 30-minute free codes at the checkout, and state that codes are given only with a purchase. The guest will be blocked from the Internet after the 30-minute code expires and the only way for the guest to continue using the Internet is to make a second purchase.





### **5: Your Guest Internet Gateway Product Contents:**

Your Guest Internet gateway product contains several components that have to be installed and connected to make the system work. Your product package contains the following components.

- Rapid start guide (Please read first)
- Gateway unit
- Ethernet cable
- Power supply

When you receive your Guest Internet product first check that you received all the parts listed above.

If one of these items is missing then please inform our customer support immediately; contact information is provided on our website.

This manual is downloaded from our Web site to ensure that you always get the latest version. See the manual download URL on the rapid start guide card or copy this link:

#### http://www.guest-internet.com/manual

**Current Products** The Guest Internet product range extends performance from 50 concurrent users up to 500 concurrent users. The current product list is as follows:

- GIS-K1+ Wireless gateway for up to 25 concurrent users Applications include bars, restaurants, dental offices
- GIS-K3 Wireless gateway for up to 50 concurrent users Applications include bars, restaurants, dental offices
- GIS-R3 Wireless gateway for up to 100 concurrent users Applications include medical clinics, caampgrounds, churches
- GIS-R5+ Wireless gateway for up to 150 concurrent users Applications include visitor centers, marinas, theaters
- GIS-R6+ Wireless gateway for up to 200 concurrent users Applications include hotels/motels, RV parks, large retail stores
- GIS-R8 Wireless gateway for up to 250 concurrent users Applications include larger hotels, train stations, small trade shows
- GIS-R10 Wireless gateway for up to 250 concurrent users with dual WAN Applications include larger hotels, conference centers, high reliability
- GIS-R20 Wireless gateway for up to 500 concurrent users with dual WAN Applications include trade shows, resorts, airports, high reliability

#### **GIS-TP1** Access code ticket printer

A summary of the product range is presented on the following pages.

The ticket printer accessory shown here can be connected to any gateway.





**GIS-K1+: Wireless Hotspot gateway for 25 concurrent users.** For bars, restaurants and any type of public commercial environment.

**GIS-K3: Wireless Hotspot gateway for 50 concurrent users.** For bars, restaurants and any type of public commercial environment.

**GIS-R3: Hotspot gateway for 100 concurrent users.** Medium performance for hotels and motels up to 100 rooms.







**GIS-R5+: Hotspot gateway for 150 concurrent users.** Medium performance for hotels and motels up to 150 rooms.



**GIS-R8: Hotspot gateway for 250 concurrent users.** High performance meets the requirements of hotels that require greater throughput for up to 250 rooms. **GIS-R6+: Hotspot gateway for 200 concurrent users.** High performance for hotels up to 200 rooms.



**GIS-R10: Hotspot gateway for 250 concurrent users.** High performance meets the requirements of hotels that require greater throughput with high reliability. Includes dual WAN load balance with fail-over.

IS-R10



# GIS-R20: Hotspot gateway for 500 concurrent users.

High performance meets the requirements of large resorts that require greater throughput with high reliability. Includes dual WAN load balance with fail-over.







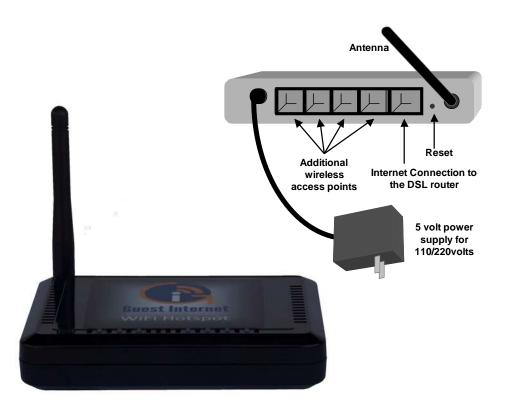
### 6: Characteristics of the GIS-K1+ Gateway Product

The GIS-K1+ is a wireless hotspot gateway for up to 25 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-K1+ gateway product is shown below.

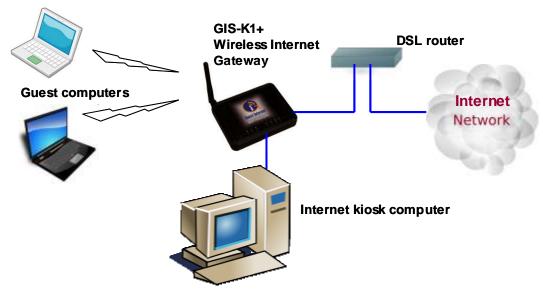
GIS-K1+: The wireless gateway has five Ethernet connectors. One is for the Internet or WAN, and is connected to the DSL router. The other connectors are the LAN ports. These ports can have any network device or computer connected.

The LAN ports can also be optionally configured to extend the hotspot network by adding wireless access points.

If more LAN ports are required then a switch can be connected to one of the LAN ports.

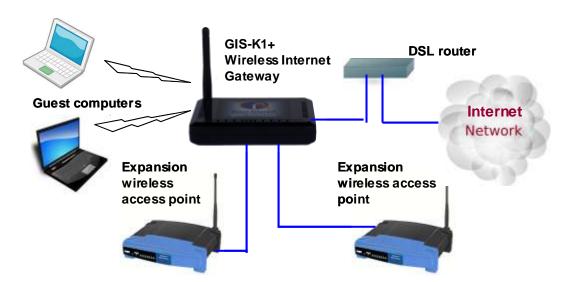








The GIS-K1+ is shown with the LAN port configured to extend the wireless hot spot network. The LAN port is firewalled to prevent public hotspot users hacking into business computers that are connected to the same DSL/cable circuit



The GIS-K1+ has many of the features of other GIS gateway products, including peer to peer (Torrent) blocking, however credit card billing is not included. The internal wireless access point can be expanded by connecting additional wireless access points to the LAN port via a switch.

The GIS-K1+ applications

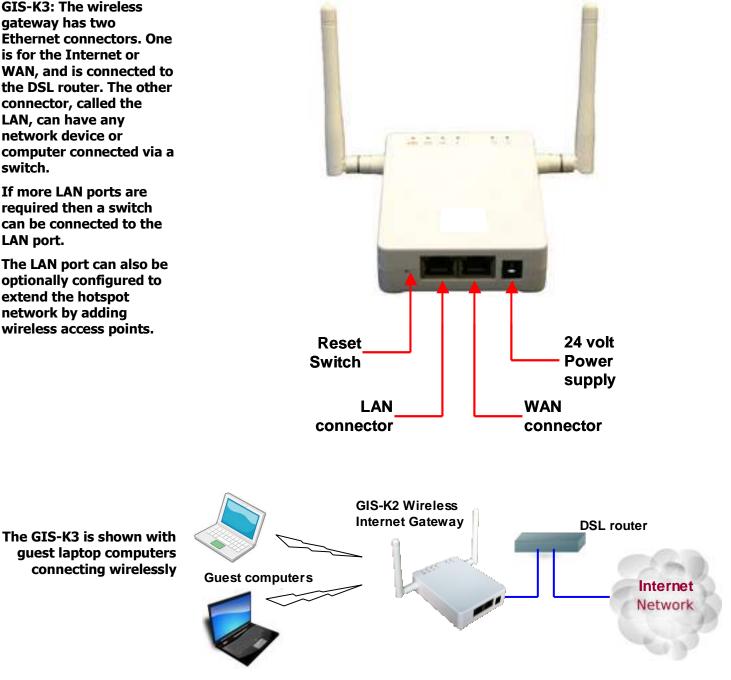
Restaurant Coffee bar Public library Truck stop Motel RV park Student dorms Marina Fashion show Bus station Event reception Music concert Theater Golf club Casino Sports club Gymnasium Bookstore Beach kiosk Shopping mall Hotel Resort Multi-tenant condo Church





### 7: Characteristics of the GIS-K3 **Gateway Product**

The GIS-K3 is a wireless hotspot gateway for up to 50 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-K3 gateway product is shown below.



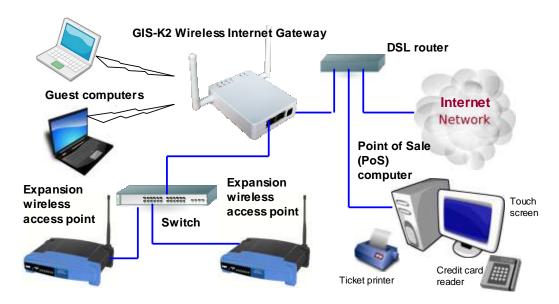
**GIS-K3: The wireless** gateway has two **Ethernet connectors. One** is for the Internet or WAN, and is connected to the DSL router. The other connector, called the LAN, can have any network device or computer connected via a switch.

If more LAN ports are required then a switch can be connected to the LAN port.

The LAN port can also be optionally configured to extend the hotspot network by adding wireless access points.



The GIS-K3 is shown with the LAN port configured to extend the wireless hot spot network. The LAN port is firewalled to prevent public hotspot users hacking into business computers that are connected to the same DSL/cable circuit



The GIS-K3 has all the features of other GIS gateway products, including peer to peer (Torrent) blocking and credit card billing. The internal wireless access point can be expanded by connecting additional wireless access points to the LAN port via a switch.

The GIS-K3 applications

Restaurant Coffee bar Public library Truck stop Motel RV park Student dorms Marina Fashion show Bus station Event reception Music concert Theater Golf club Casino Sports club

Gymnasium Bookstore Beach kiosk Shopping mall Hotel Resort Multi-tenant condo Church





### 8: Characteristics of the GIS-R3 **Gateway Product**

The GIS-R3 is a hotspot gateway for up to 100 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R4 gateway product is shown below.

The GIS-R3 gateway has two Ethernet connectors. **One is labeled Internet** and is connected to the DSL/cable/T1 router. The second connector is labeled LAN. A computer can be connected to the LAN ports directly or via a wireless access point. If more LAN ports are required then a switch can be connected. There is also a power plug for the 12 volt connector, and a reset button to reset the unit to factory defaults.

The GIS-R3 is shown with

connected via a switch to

wireless access points

the LAN port. Business

computers connected to

the same DSL circuit as

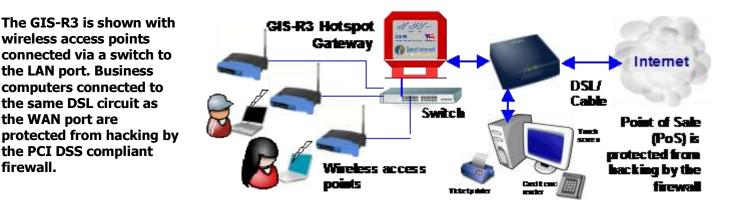
the PCI DSS compliant

the WAN port are

firewall.

Guest Internet GIS-R3 Internet Hotspot gateway Reset to Factory Defaults: Hold the reset button down for 10 seconds CONNECTORS 12 volts LAN WAN reset + -6 •

The application using the GIS-R3 gateway is shown below.



The GIS-R3 applications.

Restaurant Coffee bar Public library Truck stop Motel RV park Public park

Trade show Event reception Train station Music concert Theater Golf club

Bus station

Gvmnasium Bookstore Beach kiosk Hospital Airport Shopping mall Hotel

Student dorms Marina Sports club Multi-tenant condo Church University Resort





### 9: Characteristics of the GIS-R5+ **Gateway Product**

The GIS-R5+ gateway has five Ethernet connectors. One is labeled Internet

connected to these ports. If more LAN ports are

required then a switch can be connected.

The GIS-R5+ is shown

connected to the same

DSL circuit as the WAN

port are protected from

hacking by the PCI DSS

compliant firewall.

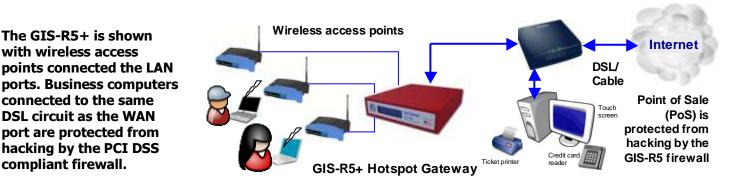
with wireless access

and WAN and is connected to the DSL/cable/T1 router. Four connectors are labeled LAN1 to LAN4. Any network device or computer can be

The GIS-R5+ is a hotspot gateway for up to 150 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R5+ gateway product is shown below.



An application using the GIS-R5+ gateway is shown below.



The GIS-R5+ applications.

Restaurant Coffee bar Public library Truck stop Motel RV park Public park

Trade show Event reception Train station Music concert Theater Golf club

Bus station

Gvmnasium Bookstore Beach kiosk Hospital Airport Shopping mall Hotel

Student dorms Marina Sports club Multi-tenant condo Church University Resort





### **10: Characteristics** of the GIS-R6+ **Gateway Product**

The GIS-R6+ gateway has two Ethernet connectors. **One is labeled Internet** 

DSL/cable/T1 router. The connector labeled LAN is connected to a computer via a wired network or wireless access point. If more LAN ports are required then the switch

and WAN, and is connected to the

can be expanded.

The GIS-R6+ is a hotspot gateway for up to 200 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R6+ gateway product is shown below.



An application using the GIS-R6 gateway is shown below.

GIS-R6+ Internet DSL/ Switch Cable . 222222 122222 Router Point of Sale Touch (PoS) computer is Internet Business protected from Kiosk Wireless Internet center hacking by the computer Ticket printer firewall Restaurant Bus station Gvmnasium Student dorms Coffee bar Trade show Bookstore Marina Public library Event reception Beach kiosk Sports club Truck stop Train station Hospital Multi-tenant condo



The GIS-R6+ is shown with three wireless access points connected via a switch to the LAN ports. **Business computers** connected to the same DSL circuit as the WAN port are protected from hacking by the PCI DSS compliant firewall.

The GIS-R6+ applications.

Motel RV park Public park

Music concert Theater Golf club

Airport Shopping mall Hotel

Church University Resort



### 11: Characteristics of the GIS-R8 **Gateway Product**

The GIS-R8 gateway has four Ethernet connectors. **Two are labeled WAN1** and WAN 2 for connection to two DSL/cable/T1 routers. Two connectors are labeled LAN1 and LAN2. Any network device

or computer can be

connected to these ports. If more LAN ports are

required then a switch

can be connected for a maximum of 250 ports.

The GIS-R8 is shown with wireless access points, a business center computer

and a kiosk are connected

computers connected to

the same DSL circuit as

the PCI DSS compliant

**GIS-R8** applications.

to the LAN port via a

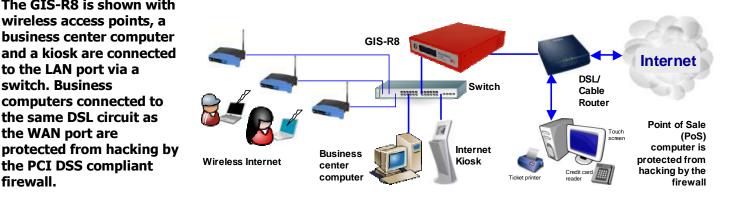
switch. Business

the WAN port are

The GIS-R8 is a hotspot gateway for up to 250 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R10 gateway product is shown below.



An application using the GIS-R8 gateway is shown below.



Restaurant Coffee bar Public library Truck stop Motel RV park Public park

Trade show Event reception Train station Music concert Theater Golf club

Bus station

Gymnasium Bookstore Beach kiosk Hospital Airport Shopping mall Hotel

Student dorms Marina Sports club Multi-tenant condo Church University Resort



firewall.



### 12: Characteristics of the GIS-R10 **Gateway Product**

The GIS-R10 is a hotspot gateway for up to 250 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R10 gateway product is shown below.



The GIS-R10 gateway has three Ethernet connectors. Two are labeled WAN1 and WAN 2 for connection to two DSL/cable/T1 routers. The connector labeled LAN1 can have computer can be connected directly or via a wireless access point. If more LAN ports are required then a switch can be connected for a maximum of 250 ports.

The GIS-R10 is shown

points connected to the

two WAN ports are DSL and Cable circuits.

connected to the same

DSL circuit as the WAN

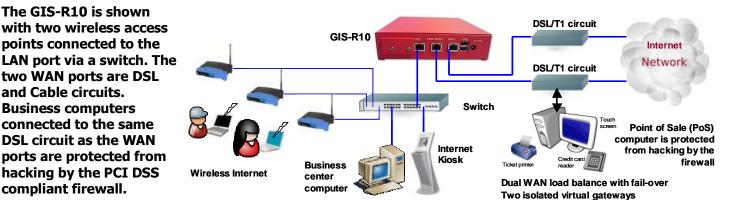
hacking by the PCI DSS

compliant firewall.

**Business computers** 



An application using the GIS-R10 gateway is shown below.



**GIS-R10** applications.



Trade show Event reception Train station Music concert Theater Golf club

Bus station

Gymnasium Bookstore Beach kiosk Hospital Airport Shopping mall Hotel

Student dorms Marina Sports club Multi-tenant condo Church University Resort



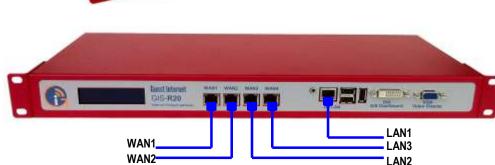


### 13: Characteristics of the GIS-R20 Gateway Product

The GIS-R20 is a hotspot gateway for up to 500 concurrent users; this means that the unit can have wired computers connected directly to it (Internet kiosks, business center computers, etc), and can have wireless access points connected to it. Each wireless access point can provide a wireless, or WiFi connection for laptop computer users who are within range of the wireless transmission. WiFi enabled devices include notebook computers, MAC<sup>™</sup> computers, iPhones<sup>™</sup>, iPods<sup>™</sup>, and Blackberries<sup>™</sup>. The GIS-R16 gateway product is shown below.



The GIS-R20 gateway has five Ethernet connectors. Two ports are configured for WAN connections. Three ports are configured for LAN connections. Any network device or computer can be connected to the LAN ports. If more LAN ports are required then a switch can be connected.



An application using the GIS-R20 gateway is shown below.

The GIS-R20 is shown GIS-R20 with wireless access points and Internet kiosks connected via a switch to DSL/T1 circuit one of the LAN ports. The 222222 222222 two WAN ports provide load balancing and fail-DSL/T1 circuit over for redundant operation. Business Wireless computers connected to Internet Dual WAN Internet the same DSL circuit as **Kiosks** Load balance the WAN ports are With fail-over protected from hacking by the PCI DSS compliant Internet firewall. TRADE SHOW NETWORK EXAMPLE

The GIS-R20 applications.

Public library Motel RV park Public park *Trade show Music concert Theater Golf club*  Hospital Airport Shopping mall Hotel Student dorms Multi-tenant condo University Resort





### 14: Characteristics of the GIS-TP1 ticket printer Product

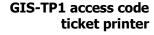
Many Internet WiFi Hotspots are configured so that the user has to type an access code to be connected to the Internet. This procedure prevents unauthorized users from getting Internet access. Guest Internet gateways have a page to generate access codes which can be downloaded to a spreadsheet and printed on labels. GIS gateways also have an application program interface (API) that allows point of sale (PoS) systems to request an access code and print the code on the PoS ticket printer. The GIS-TP1 provides an alternative to print access codes on demand when the user requests a code. This greatly simplifies the management of access codes as it is no longer necessary to generate a large number of codes and then print codes using a computer. A hotel reception desk or concierge can now print access codes for guests. A coffee bar can print access codes for guests when purchases are made. Codes are printed using the touch screen of a tablet computer. This can be a low cost Android tablet with a 7inch display screen, or an Apple iPad tablet. Ten access codes can be pre-configured and appear as buttons on the screen of the tablet computer.

Like all Guest Internet gateway products, the ticket printer is very easy to install and operate. The ticket printer should be connected to a LAN port of the GIS gateway using a switch. Wireless access points will also be connected to the GIS gateway using the same switch. Next, the ticket printer is configured using the GIS administrator page to select up to ten access code durations as ticket options. A new login password is also created for the tablet computer login. Finally, the tablet computer wireless should be connected to the GIS gateway via the wireless access point. Open the browser and use the ticket printer login. The ticket select buttons are then displayed on the screen.

The GIS-TP1 ticket printer uses 58mm thermal paper that can be obtained from any office supplies store. 58mm thermal paper is used by point of sale thermal printers.

The GIS-TP1 ticket printer has an Ethernet connection that must be connected to a LAN port of the gateway, either directly of via a switch. The GIS-TP1 cannot be connected to the WAN port of the gateway.

The GIS-TP1 is connected to the gateway as shown in the figure below. A separate tablet computer is required to control ticket printing.







The GIS-TP1 is shipped with the following accessories

- Power supply, 12 volts
- Ethernet cable
- Quick start guide







### 15: Installation of Guest Internet Gateway Products

Guest Internet gateway products can be used to manage public Internet for many different applications.

The following table shows how GIS gateway products are used for different applications.

Product	Application	Type of access	Additional Equipment
GIS-K3	Restaurant Internet access for up to 50 concurrent users	Wireless Hotspot	DSL or cable Internet service
GIS-R10	Hotel rooms with a wired Internet connection for up to 250 concurrent users	Wired cat-5 connection	Multi-port switch, DSL or cable Internet service with dual backhaul for load balance and redundancy
GIS-R3	Hotel lobby wireless Internet for up to 100 concurrent users	Wireless Hotspot	One or two wireless access points, DSL or cable Internet service
GIS-R3	Golf course wireless Internet for up to 100 concurrent users. One central antenna can provide service for receivers (e.g. WiFi Boost) on golf carts.	Wireless Hotspot	High power outdoor access point (Ubiquity Bullet 2HP or Rocket), DSL or cable Internet service
GIS-R5+	Conference hall for up to 150 concurrent users	Wireless Hotspot	Two wireless access points, DSL or cable Internet service
GIS-R3	Hotel business center with four computers	Kiosk service	DSL or cable Internet service
GIS-R20	Provide wireless Internet for an outdoor concert using several high power wireless access points for 500 users	Wireless Hotspot	T3 or fiber Internet service
GIS-K1+	Provide wireless Internet for a coffee bar with a single wireless hotspot	Wireless Hotspot	DSL or cable Internet service
GIS-R20	Provide wireless Internet for a trade show with many wireless access points	Wireless Hotspot	T3 or fiber Internet service
GIS-R6+	Provide wireless Internet for airports and train stations using a large number of wireless access points	Wireless Hotspot	T3 or fiber Internet service
GIS-R3	Provide wireless Internet for an RV park using several outdoor long range wireless access points	Wireless Hotspot	DSL or cable Internet service
GIS-R8	Provide wireless Internet for a 300 berth marina by connecting several outdoor long range wireless access points	Wireless Hotspot	DSL or cable Internet service
GIS-R3	Provide wireless Internet for a resort using several indoor and outdoor wireless access points	Wireless Hotspot	DSL or cable Internet service
GIS-R5+	Provide Internet for a flea market	Wireless Hotspot	DSL or cable Internet service
GIS-K1+	Provide wireless Internet for a gas station	Wireless Hotspot	DSL or cable Internet service

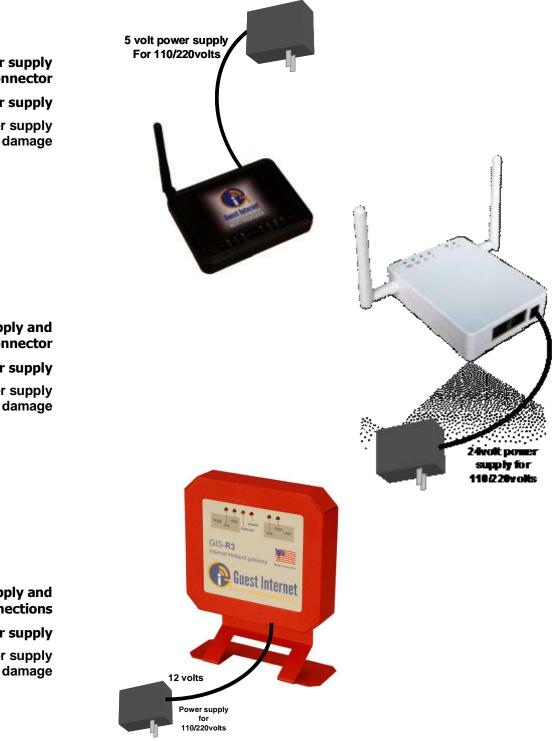


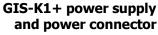


### **16: Powering the Gateway Products**

This section describes the power supply units that Guest Internet gateway products are shipped with.

Each product requires a specific power supply voltage as shown in the figures below. Each power supply plugs into the power connector shown on the product photos below. The power supply can be used with either 110 volts or 220 volts. Connecting a power supply with the wrong voltage will damage the gateway.





5 volt power supply

Use only the power supply provided to avoid damage

GIS-K3 power supply and power connector

#### 24 volt power supply

Use only the power supply provided to avoid damage

GIS-R3 power supply and connections

12 volt power supply

Use only the power supply provided to avoid damage





#### GIS-R5+ power supply and connections

#### 5 volt power supply

Use only the power supply provided to avoid damage



GIS-R6+ power supply and connections

24 volt power supply

Use only the power supply provided to avoid damage

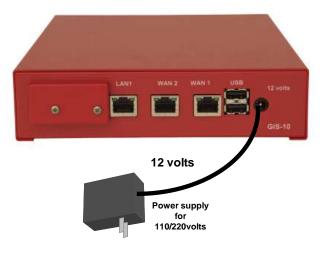


GIS-R8 power supply and connections

#### 48 volt power supply

Use only the power supply provided to avoid damage

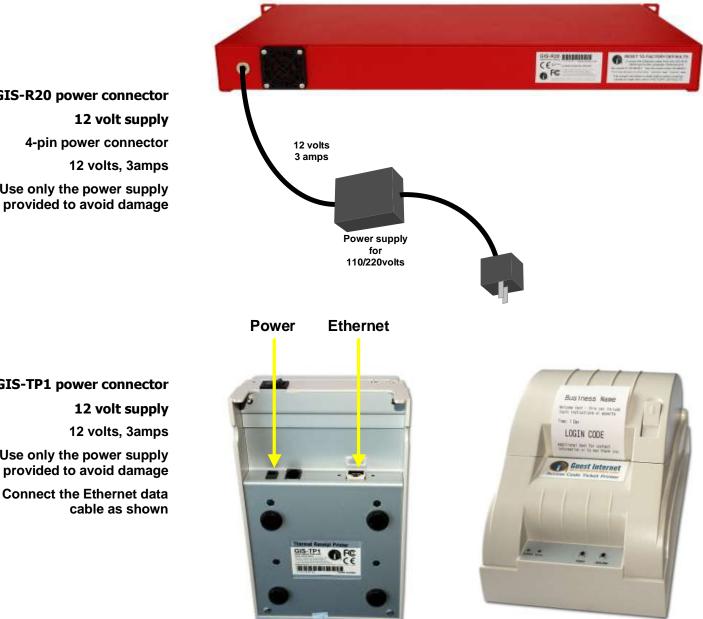




#### **GIS-R10** power supply and connections

12 volt power supply

Use only the power supply provided to avoid damage





#### **GIS-TP1** power connector

12 volts, 3amps

Use only the power supply provided to avoid damage

**Connect the Ethernet data** cable as shown





## 17: Switching the Gateway Product on for the First Time

The GIS-gateway must be configured before it can be used. The product has a very easy to use Wizard which speeds through the configuration process. Configuration takes around five minutes.

The GIS-gateway must be connected as shown in the diagram at the bottom of this page. The INTERNET port must be connected to the Internet via the DSL router. The GISgateway cannot be configured without Internet access. The computer Ethernet cable is connected to any LAN port

When the GIS-gateway is connected as shown in the diagram the power supply should be connected. Check the power on LED is lit on the front of the enclosure, or the LCD display is lit on some models. The WAN link LED indicates that the Internet port is connected to the DSL router, on models with the LCD display a message indicated this connection.

Next switch on the computer. When the computer has booted up then open the browser. If the browser gives a message that the Internet is not available then check the Ethernet cable and connectors between the GIS-gateway LAN port and the computers Ethernet connector.



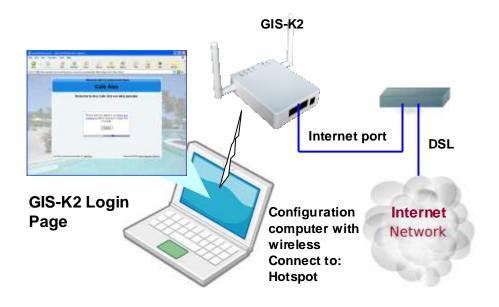
Connect your computer to the gateway product LAN port

The GIS-K2 must be connected as shown in the diagram on the following page. The GIS-K2 INTERNET port must be connected to the Internet via the DSL/Cable/T1 router. The GIS-K2 cannot be configured without Internet access. The computer wireless network interface is connected to network name: *Hotspot* 

When the GIS-K2 is connected as shown in the diagram the power supply should be connected. Check power on LED is lit above the enclosure. A LED indicates power is connected and a LED indicates that the Internet port is connected to the DSL router.

Next open the computer browser. If the browser gives a message that the Internet is not available then check the wireless connection between the GIS-K2 and the computer.





With the Guest Internet gateway connected as shown, proceed to the Wizard configuration process.

Galest Internet

Connect your computer using the wireless

interface. Look for the network name (SSID): Hotspot and connect



## 18: Installing the Gateway Product in a Computer Network

When the GIS-gateway has been configured it can be installed in the business network. Configuration changes may be necessary for the GIS-gateway to provide all the desired features required for the business network.

Several different network configurations are possible when installing the GIS- gateway. It is important to recognize that restrictions are placed on the network design if the network has any computer point-of-sale terminal that is used to process credit card information.

The **Payment Card Industry Data Security Standard (PCI DSS)** requires all businesses to ensure that credit card information is protected, by preventing unauthorized access via the network, using one or more firewall products.

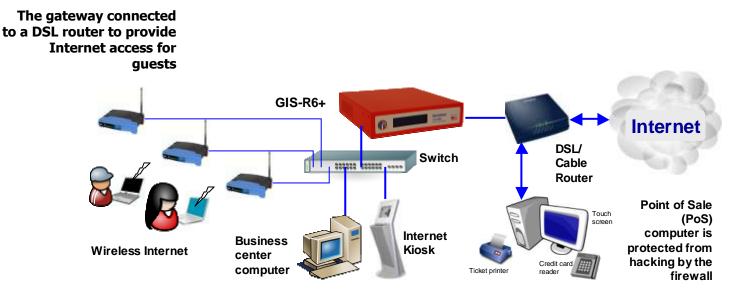
Network designs have two points of entry for hackers who try to steal credit card information from point of sale computers. The first point of entry is through the Internet connection. The outbound Internet connection is required to process credit card information. However the inbound direction has to be blocked to prevent hackers using the internet to access the point of sale computers.

The second point of entry is through any wireless access point that is provided for guests and visitors to get Internet access. The PCI DSS standards recommend that two separate Internet circuits should be used: one for the point of sale system, and one for the public guest Internet network.

One Internet circuit can be used when firewall devices are installed to protect the point of sale system from attack. A firewall however is only as good as the person who configures the firewall. It is necessary to take great care when writing the firewall rules to ensure that no path exists for a possible attacker.

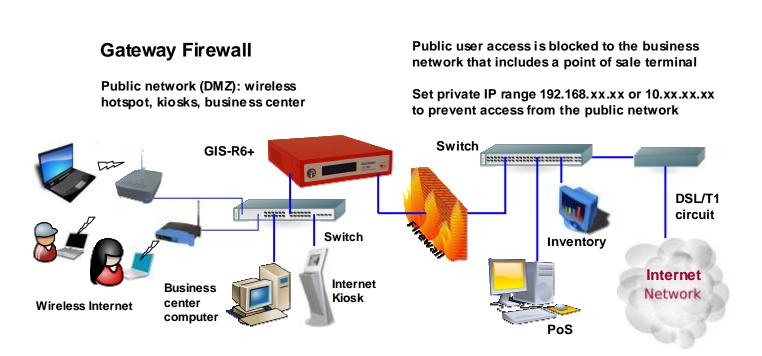
PCI DSS compliant network configurations are shown in the following figures. Additional information about PCI DSS recommendations can be found at this URL.

#### https://www.pcisecuritystandards.org/security\_standards/pci\_dss\_download\_ agreement.html

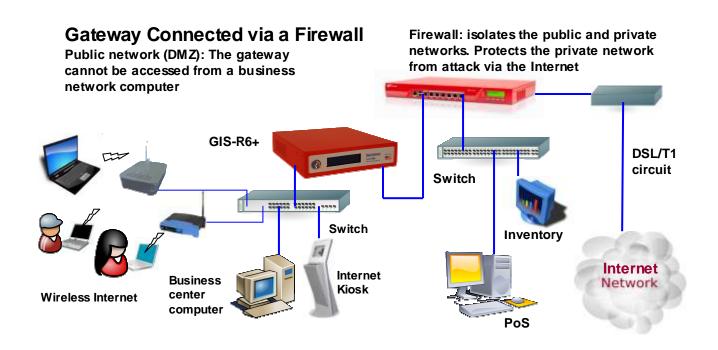


The next figure shows the GIS-gateway connected to a business network that has an Internet connection via DSL or T1. The GIS-gateway firewall blocks access of public network DMZ (de-militarized zone) users to the business network computers for PCI DSS compliance.





The next figure shows a business network with full PCI-DSS compliance: a single firewall isolates the business network and public network (DMZ). With this configuration it is possible for one of the business computers to generate and manage access codes using the GIS-gateway providing that the computer has been authorized to do so within the firewall.







The GIS K1+/K3 wireless gateway devices are configured differently to the GIS-R-series gateway devices. Configuration changes may be necessary for the GIS-K1+/K3 to provide all the desired features required for the business network.

Several different network configurations are possible when installing the GIS-K1+/K3. It is important to recognize that restrictions are placed on the network design if the network has any computer point-of-sale terminal that is used to process credit card information.

The **Payment Card Industry Data Security Standard (PCI DSS)** requires all businesses to ensure that credit card information is protected, by preventing unauthorized access via the network, using one or more firewall products.

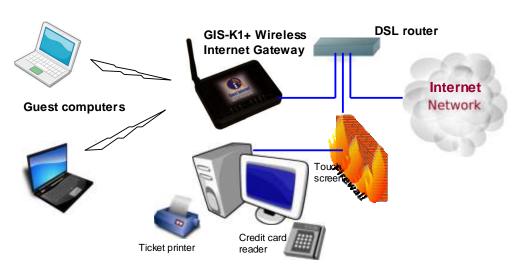
Network designs have two points of entry for hackers who try to steal credit card information from point of sale computers. The first point of entry is through the Internet connection. The outbound Internet connection is required to process credit card information. However the inbound direction has to be blocked to prevent hackers using the internet to access the point of sale computers.

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One Internet circuit can be used when firewall devices are installed to protect the point of sale system from attack. A firewall however is only as good as the person who configures the firewall. It is necessary to take great care when writing the firewall rules to ensure that no path exists for a possible attacker.

PCI DSS compliant network configurations are shown in the following figures. Additional information about PCI DSS recommendations can be found at this URL.

#### https://www.pcisecuritystandards.org/security\_standards/pci\_dss\_download\_ agreement.html



The GIS-K1+ connected to a DSL router to provide Internet access for guests. The business computer (PoS) is protected from the public Internet users by a firewall in the GIS-K1+

The Point of Sale (PoS) computer is protected from public access by a firewall in the GIS-K1

All GIS hotspot gateway products have identical PCI DSS compliant firewalls.





## 19: Connecting Your Computer Browser to the Guest Internet Product

When your computer is connected to the GIS-gateway (previous section) then you can start the configuration and set up process using your computer browser. The set up process can be done with any type of browser.

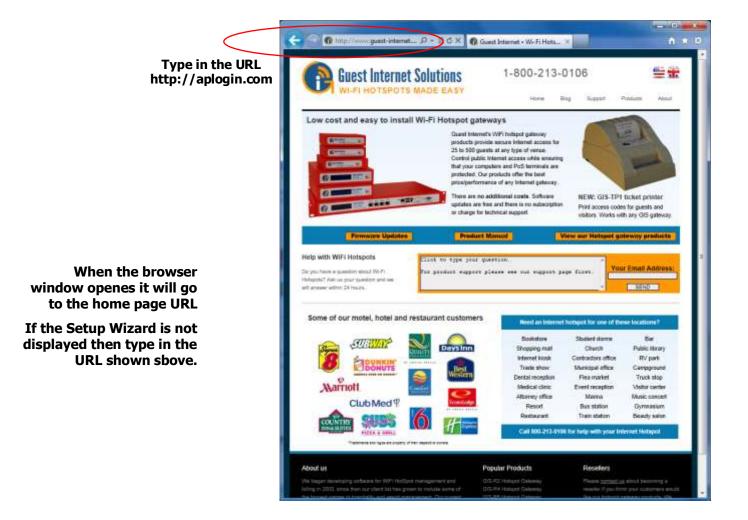
When a browser opens it is usually directed to go to the home page. This is the page you always see when the browser opens.

When you open your browser your home page will change, instead of your usual home page you will see the Guest Internet setup wizard.

If you did not have a home page set in your browser you should type the following into the URL address line.

## http://aplogin.com

The setup wizard will appear only the first time you power up the device. When the Guest Internet product has been configured then the configuration wizard is no longer shown. It is replaced by a login page, which was generated by the setup wizard.







## 20: The Quick Start Wizard: Get Your Gateway Working Quickly

The first time that you connect to your Guest Internet gateway product you should see the page shown below displayed in your Internet browser window.

The screen shows that there are five steps to complete the setup process. Each step is a page that requires some information to be typed in or an option selected.

Please read through this manual first before setting up your Guest Internet product.



The purpose of the setup wizard is twofold

- (a) Verify that the gateway is connecting to the Internet
- (b) Configure the login page that your guests will see when they try to connect to the Internet

During the wizard set up process you will be requested to enter information about your business that will be shown to guests on the login page. It is always good to present your website address, email address and telephone number for guests to note or save on their computers. All information is optional: if you don't type it in it will not be shown on the login screen.

In addition to your business information you can also type in an advertising message. The message could tell guests about a special offer, or provide information essential for guests. You can also log in at any time to change the advertising message.

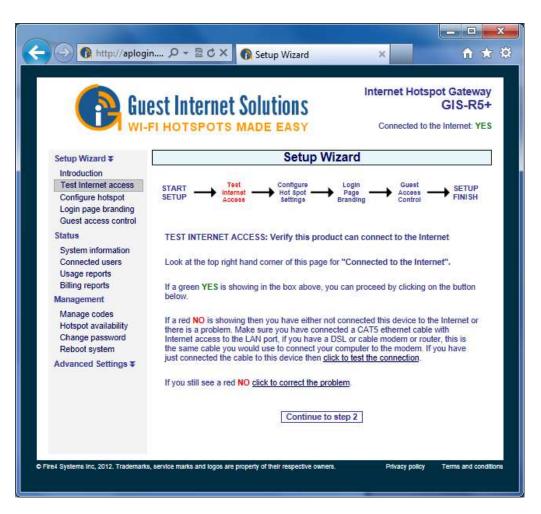




## 21: The Quick Start Wizard: Check the Internet Connection

The TEST INTERNET ACCESS setup page verifies that your Guest Internet gateway product is connected to the Internet. The setup process cannot be completed unless the product is connected to the Internet.

Look on the top right hand corner of the browser window. You will see a green YES or a red NO. If you have a green YES then your product is connected to the Internet and you can proceed to the next page by clicking on the button 'Continue to Step 2'.



If you see a red NO then you have a connection problem.

First verify that your DSL modem provides a good Internet connection by connecting a computer to the DSL modem using an Ethernet cable.

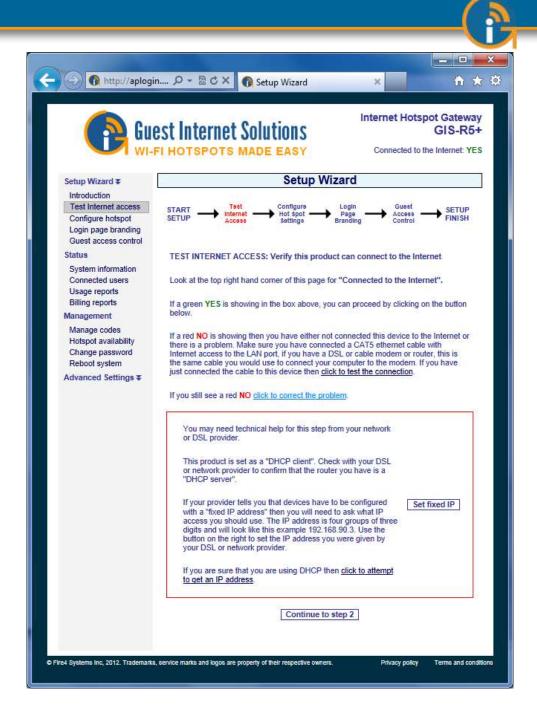
Verify that the Guest Internet product is connected to the DSL router (check that the blue LED is lit) and then click on 'click to test the internet connection'.

If the Internet status still shows a red NO then click on 'click to correct this problem'.

Verify that your DSL modem is a 'DHCP server'. You may need help from an IT or network person to answer this question. Click on the link 'click to attempt an IP address' shown on the following page.

You may have a shared T1 service in which case you will have to configure your Guest Internet product with a 'fixed IP address'. You can click on **Advanced Settings** and then click on **Network Interfaces** to set a fixed IP address. This procedure is explained later in this manual. Your T1 service provider will tell you what IP address should be configured.





If you still have a red NO after trying the steps described above then you will have to call a network specialist to help you. You can contact a network specialist by calling local IT companies. You may also find a network specialist by calling your high speed Internet service provider.

It is likely that your DSL router or cable modem has a firewall that is preventing the GISgateway connecting to the Internet. You should look at your DSL router configuration to 'enable NAT'ing devices'.

Unfortunately our support line cannot help you with this problem because an on-site inspection is required. The network specialist will visit your premises to diagnose and correct the problem.

Configuration of the Hotspot gateway cannot be completed until a connection to the Internet is obtained. Connect the gateway to an alternative DSL or cable service to complete the configuration process.





## 22: The Quick Start Wizard: Set the Time Zone and Password

When your Guest Internet product has a good connection to the Internet and you have clicked on the link to proceed to page 2, then you will see the page shown below.

Gan Gun	EST Internet Solutions	Internet Hotspot Gateway GIS-R54 Connected to the Internet: YES
Setup Wizard ¥	Setup Wiz	zard
Introduction Test Internet access Configure hotspot Login page branding Guest access control Status System information Connected users	CONFIGURE PRODUCT: Set the product oper Time zone: Defines time displayed for	
Usage reports Billing reports Management Manage codes	logins and logouts         Admin password:         Username is always admin         Keep the password safe         Repeat password:	
Hotspot availability Change password Reboot system Advanced Settings <b>T</b>	Save setting and conti	inue to step 3

The GIS-gateway synchronizes with Internet time and date to time access codes and provide the data and time for the usage log. It is necessary to first select the time zone for the gateway. Click on the arrow at the right of the box to see the drop down menu. Select your time zone from this list. The default time zone is US eastern time.

The GIS-gateway has no default administrator password. The administrator access password must be entered in the box. Guest Internet products can only be operated when a unique password has been entered, following the recommendations of the Payment Card Industry Data Security Standard (PCI - DSS). Create a 'strong' password using the following rules:

The password should be at least 8 characters

Don't use words that are in the dictionary

Include capital letters, numbers and punctuation marks in the password

The GIS-K2 wireless gateway has an additional box to set the hotspot name (SSID) that is broadcast wirelessly. The default name is HOT SPOT. A name should be selected that can be recognized by users (e.g. Coffee Bar Hotspot).

See the screen on the following page.



avorites G Setup Wizard		🗟 + 🖾 + 🖾 🗰 + Bage+ Sa	fety + T <u>o</u> ols + 😡 + 1
	est Internet Solutio		GIS-K1
Setup Wizard ¥		Setup Wizard	
Introduction Test internet access Configure hotspot Login page branding Guest access control Status	SETUP Access	etings e product operating parameters	SETUP FINISH
System information Connected users Usage reports	Name of Hot Spot: This is the name customers will see on their computer	Hot Spot	
Management Manage codes Hotspot availability Change password Reboot system	Time zone: Defines time displayed for logins and logouts Admin password: Username is always admin Keep the password safe	USEastern •	
Advanced Settings ∓	Repeat password:		
	Save set	ting and continue to step 3	

When you have completed this screen click on the button to proceed to step 3.





## 23: The Quick Start Wizard: Enter Your Business Information for the Login Page

The first option you select is the category that describes your venue. This selection determines the login page background image. The information you type into the boxes will be displayed on your login page. It is important that you provide guests with the information they need to email to friends or make a return reservation. In addition to your business information you can also type in an advertising message so that you can promote a product or service. You may not want your guests to see all the information listed on this page. Type in only the business information that you want your quests to see on your custom login page. Ignore the boxes where you do not wish to provide the information. When you have completed this screen click on the button to proceed to step 4.

The next step in the setup process is the creation of the login page. Your guests will see this page when they connect to your Internet service. Your guests have to click on the disclaimer or enter a code to access the Internet.

A CONTRACT OF A	est Internet Sol		Internet H	GIS-R5+
WI-I	FI HOTSPOTS MAD	E EASY	Connecte	d to the Internet: YES
Setup Wizard ¥ Introduction Test Internet access Configure hotspot Login page branding	START	Hot Spot	Login Page randing → Guei Acce Conb	SETUP
Guest access control Status	LOGIN PAGE BRANDING:	Generate the login	bage used by custo	omers
System information Connected users Usage reports Billing reports Management Manage codes	Set login page backgroun	d:	© Coffee bar	© Conference
Hotspot availability Change password Reboot system	Hotel	Library	© Marina	© Motel
Advanced Settings ¥	Pool area	Sports bar	Resort	Restaurant
	A custom background image or log Enter business information Business Name: (max 40 characters) Business Address: Business City: Business State: Business Zip: Business Phone: Business Email: Business Web Site: Enter advertisement mess	http://	dvanced login settings page	
	Customers will see this when they log in: max 140 characters		io message is req	
	Page title:	Wireless (Wi-Fi) Inte	rnet Hot Spot	
	Selecting a backgrou	ind image will erase a cus	tom login page and ba	skground.
	Sa	ve setting and contir	ue to step 4	





## 24: The Quick Start Wizard: Select Disclaimer or Code Access

The next step is to select the type of access control you require. You have two options.

- 1. Unlimited access: The guest sees the login page and has to click on the disclaimer button to get Internet access.
- 2. Controlled Access: The guest has to type in an access code. The code is generated using the MANAGE CODES menu option and can be given or sold to the guest.

The choice you make here is determined by the way that you want to offer your Internet service for your guests. See the earlier section that explains this choice.

It is also necessary to type a message that tells your customer how to proceed to get Internet access. For example, you may wish to give access codes at the point of sale. In this case the message should read; "Speak to the cashier to get your access code".

😱 Gu	est Internet Solutions	Internet Hotspot Gatewa GIS-R5
WI-	FI HOTSPOTS MADE EASY	Connected to the Internet: YE
Setup Wizard ∓	Setup Wiza	rd
Introduction Test Internet access Configure hotspot Login page branding	START	igin age Access nding FINISH
Guest access control Status	GUEST ACCESS CONTROL: Choose unlimited of	or controlled Internet access
System information Connected users Usage reports Billing reports	Unlimited access requires the user to accept your te conditions, Controlled access requires the user to e access code. You can also collect email addresses, be set up later from the Advanced Settings menu.	enter an 🛛 🖉 Unlimited access
Management		
Manage codes Hotspot availability Change password Reboot system	Login instructions: Instructions to be displayed to the customers, eg: Collect free login token from cashier or Please use our free service	
Advanced Settings ∓	Enter a login token to use this Hot Spot	• ^ •
	Save setting and finish	wizard

When completed click on the save settings and finish button





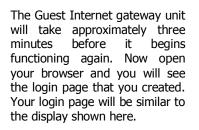
## 25: The Quick Start Wizard: Completing the process

The final step in the setup process is to restart or reboot the Guest Internet gateway unit.

This step will restart the gateway unit with all the parameters that were entered during the setup process.

Click on the Reboot button shown on the screen below.





0 0		1940							8
Back Freedom	Stop	Rafrash	Hore	P	Favortas	() History	G.	A Pret	Edit Discuss
dikensi 💽 http://eplogi	in con/?url=http	Unnew microsoft	it.com/isapil/re	dir. dliprd=k	6pver=5.05/a	=IStart			× 1
	(		Wire	less (Wi-F	i) Interne	t Hot Spot			
				Caf	e Alex	6			
		Wel	come to	Alex Caf	e. See ou	r daily sp	ecials.		
				i <mark>ons</mark> before af	igree to our using this h charge Agree				
-			-		termity WVCs	erit belernet.com			-
	Not Spot own	ed and operated!	by <u>Cale Alex</u>			Copyrig	pre 400009 <u>(Sum</u>	at Internet Soul	





## 26: Operating the Guest Internet Gateway Unit

When the setup wizard procedure has been completed it should not be necessary to make any configuration changes. If the access mode was set to CONTROLLED ACCESS then it will be necessary to log in to the device periodically to generate and download access codes.

The Guest Internet gateway unit has many features that you may wish to take advantage of by accessing the unit as the administrator. The password that you entered during the wizard setup process will be required to login as the administrator so keep a note of that password in a safe place, and don't share it with others, unless you are authorizing someone to administrate the product. You can also set a different password for a dedicated page that is used to generate and administrate access codes.

When you log in as administrator you will see a menu on the left side of the page. The menu is divided into four sections for convenience.

- SETUP WIZARD: by clicking on this menu option any information provided during the setup process can be changed.
- STATUS: this page shows the status of the product. This information will be useful for an IT technician.
- MANAGEMENT: These functions are used to administer your Internet service, you
  may use the manage codes page frequently if you are providing guests with
  codes.
- ADVANCED SETTINGS: These settings permit you to change technical parameters of your product. Changes in these parameters should not be required unless you have specific network requirements. For example your IT technician may have to set a fixed IP address.

This manual has a description of each page and how it can be configured.

<u>Important Note</u> Some of the advanced settings can disrupt normal operation of the Guest Internet gateway if changed without care. In extreme cases you may get 'locked out' of the device due to changes that you made. You can also get 'locked out' if you forget your password.

If you are 'locked out' then there is a procedure to reset the unit to factory defaults. This procedure is described later in this manual. All Guest Internet products have a label on the product that explains how to reset the unit to factory defaults.

Once set to factory defaults you will have to follow the setup procedure once more to configure the product for your requirements.





27: Using Advanced Functions to Access Additional Features The Guest Internet gateway is configured using any type of computer. The notebook computer can be connected directly to the GIS-gateway unit using an Ethernet cable, or connected wirelessly through an access point connected to one of the LAN ports.

After powering the Guest Internet product allow 2 minutes for the unit to perform internal test routines before beginning the configuration process.

The computer's browser is used to configure the Guest Internet product. Open the browser and type the URL:

## http://aplogin.com/admin

A box will open requesting the user name and password.

Authenticat	ion Required 🛛 🛛 🗙
?	A username and password are being requested by http://aplogin.com. The site says: "admin"
User Name:	admin
Password:	•••••
	OK Cancel

The username and password are:

Username = admin

#### Password = (password set during the Wizard setup process)

When the password has been accepted then the **Status: System Information** page will open (following section). The computer is now logged in as the administrator of the Guest Internet GIS-gateway.

Remember the password as it is required each time you wish to login as administrator. If you forget your password then you will have to reset the GIS-gateway to factory defaults and start the configuration process anew.





## 28: Login for Access Code Generation and Management

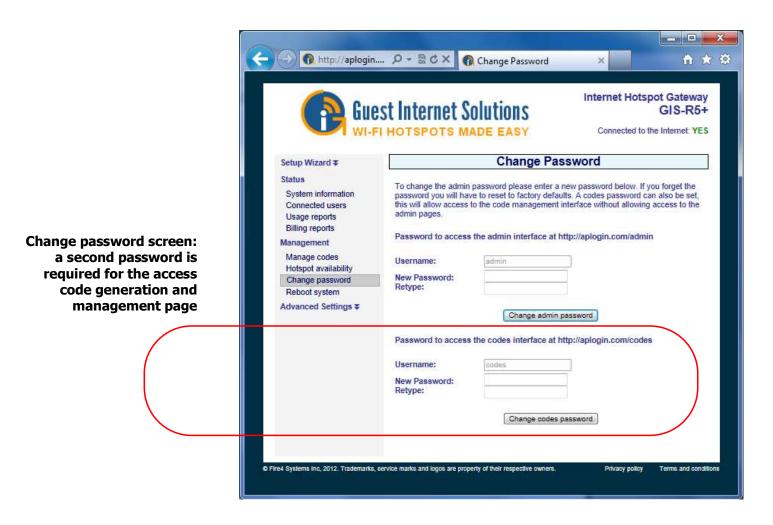
All GIS gateway products have a special graphic user interface specifically to generate access codes that are given to guests for Internet access. The user interface has been optimized for display on a 7inch tablet permitting the tablet to be located at the point of sale, and be operated like a PoS screen. The user interface can also be displayed on larger and small tablets, and with both desktop and laptop computers. The access code generation display is also excellent for use with smart-phones. When the ticket printer is activated the display is used to print access codes onto tickets, as a self-contained PoS. Access codes can be generated and managed using the administrator login:

## http://aplogin.com/admin

The administrator login gives access to all the features of the GIS- gateway. In many cases it is desirable to give someone the permission to generate and manage access codes, but not permit that person to have access to all the configuration parameters. A page that permits only the generation and management of codes can be accessed using the URL:

## http://aplogin.com/codes

A username and password is requested when this URL is typed in and so the code administration page password must be created before this feature can be used. First login as administrator and click on the *change password* menu entry to create the password for the access code management page. See the screen below.







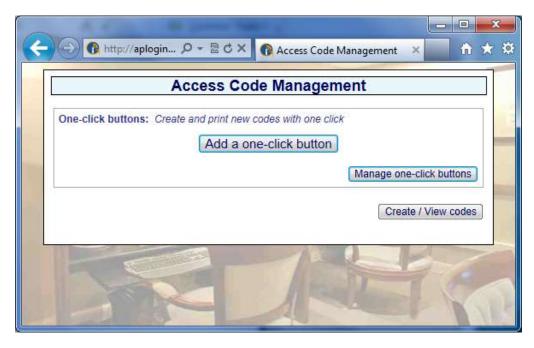
If your Guest Internet gateway has been configured for the controlled access mode then you will use the **Manage Codes** feature frequently. This page is used to generate codes in several different formats and to cancel codes. It is also used to list outstanding codes. Codes can also be printer using the optional ticket printer GIS-TP1.

Now login to open the access code generation and management page typing in the URL:

### http://aplogin.com/codes

The username for the code generation and management page is always *codes*. The password that was configured for the code generation and management page should be typed into the box shown below. Click on the button OK to see the access code management page as shown in the figure below.

Codes Password	gin.com at codes requires a username and passwo	Tu.
Password		
	codes	
	Password	
Kemember my credentials	Remember my credentials	



The ticket printer screen is designed to be easy to use, similar in operation to a point of sale (PoS) display. It is necessary to first create buttons that are used to generate access codes. Up to ten buttons can be added to the display. The button can be touched on a tablet display, or clicked with a mouse on a desktop or laptop computer, to generate the access code. The buttons also work with a smart phone touch display.

Clock on the 'add a one-click button' to add a button to the display. The screen that is shown on the following page will be displayed.



Access code management

page

C http://a	plogin 🔎 🗕 🗟			
	Access	Code Ma	nagement	
Create a one-clic	k button:			
Name of button:	-			
Expiry Time:	30 mins 💌	User Type:	Single	]
Download Limit:	Default 💌	Upload Limit:	Default	Create button
Manage one-clic	k buttons: Remov	i <mark>e and reorder b</mark>	uttons	
				Exit managemen

First type the name of the button that will be shown on the display subsequently. This could refer to the access time, e.g. two-hours, or the type of user, e.g. conference-guest. The code duration can be selected from 30 minutes to 180 days using the drop down menu. One of two codes types can be selected

- **Single**: Only one guest can use this code. The code runs to completion after login. The duration of the code is selected by the time option.
- Multi-User: Many guests can use this code concurrently for Internet access. The timer starts the first time that the code is used by any user, and the code expires after the duration set for the code. Subsequent users will therefore have less time available for the code.

The download and upload speed limits can also be specified for the code using the drop down menu. When the 'create button' is clicked the following screen is displayed.

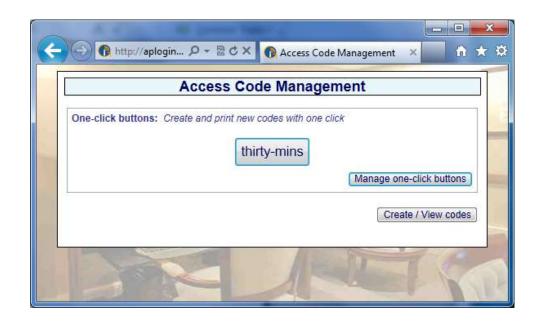
# Add one-click button page

Button added page





Click the 'exit management' button to see the display with button that is used to generate access codes.



Access code generation page

Access code generation page showing three

buttons

Two more buttons have been added to the display shown below. A maximum of ten buttons can be added to the display.

	Access	Code Manag	ement
One-click b	uttons: Create and prin thirty-mins	t new codes with one	click one-day Manage one-click butte
			Create / View co

When any button is clicked the access code that has been generated is shown on the display. See the figure on the following page.



		ode Manage	Add Alexans	
One-click butto	thirty-mins	four-hours	One-day Manage one-clic	ck button:
	New	v Code: L9AH5J	Create / )	√iew code
		In a	Create / \	/iew cod

Buttons can be removed, and new buttons created at any time by clicking on 'manage oneclick buttons'. When clicked the screen shown on the following page is displayed. Any button can be removed by clicking on 'remove one-click button'. New buttons can be added by following the procedure describer above. Click on 'exit management' when finished.

	Access	s Code Ma	nagement	
Create a one-clic	k button:			
Name of button:				
Expiry Time:	30 mins 💌	User Type:	Single 💌	
Download Limit:	Default 💌	Upload Limit:	Default 💌	Create button
Manage one-click		ve and reorder b		[ Move up ]
	ins		click button	Move up
thirty-m	ins	Remove one-	click button	

The access code management page also has a 'create/view codes' option. See the figure above. The create/view codes display is shown on the following page.



Manage buttons page

Access code generated

	Access	Code Man	agement	
One-click buttor	s: Create and prir	nt new codes with	one click	
	thirty mina	four-hour		17
	thirty-mins	Tour-nour		
			Manage	e one-click buttons
Create custom c	odes: You have	100 Used <b>18</b> of <b>10</b>	000 codes	
	-			
Code Text: Expiry Time:	Random 💌 30 mins 💌	Number of cod User Type:	Single	
Download Limit:	Default 💌	Upload Limit:	Default 💌	Create Codes
Chaok / Doloto C	adaat Cadaa ara	outomotioallu dals	ted 7 days after the	
Clieck / Delete C	oues. Coues are	automatically dele	sted 7 days alter the	y expire
Check / Delete C	odes: Codes are	automatically dele	eted 7 days after the	y expire

The create/view codes page provides two features. The first is the option to create custom codes. The screen below shows a custom code that has been generated.

	A00033	Code Manage		
One-click bu	tons: Create and prin	t new codes with one o	click	
	thirty-mins	four-hours	one-day	
			Manage	e one-click buttons
Code Text: Expiry Time: Download Lim		Upload Limit: De	ngle 💌	Create Codes
#	Code Tim W284GW 30 m		Down default	Up default
Check / Delet		automatically deleted 7	7 days after the	

Create/view codes page

Create new custom code





This option is used when several of codes are required as the number of codes can be specified. As an alternative, one code can be generated with a name that can be specified in the code text box, rather then use the random codes generated by the buttons. As with the button, the code duration, user type, and download /upload limits are specified. Click the 'create codes' button to generate the access codes.

Access codes can also be verified by typing the code into the 'code to check' box. Click the 'check code' button to see the access code characteristics.

Click the 'view all codes' button to display a list of all access that have been generated, and have not expired. This display is shown in the figure below. This display can be used to delete any code or codes by checking the boxes and clicking the 'delete checked codes' button.

			Acce	ss Co	ode Man	agem	nent		
On	e-click butt	_	ate and p ty-min		v codes with four-hour		one-da	age one-click	buttons
Co Exj Do	de Text: piry Time: wnload Limil	Rand 30 m	lom 💌	N U	sed 9 of 100 umber of cod ser Type: pload Limit:		eate: 1	Create	e Codes
		descent a	Codes a	re autor	natically dele				
	ter code to c	descent a	Codes a	re autor Used	Check Coo Time Left	le V Down	iew All C Up	Download	Upload
En	ter code to c	heck:			Check Coo	le V	iew All C	codes	Upload Used 0
En	ter code to c Code	heck: Time	Туре	Used	Check Coo	Down kbit/s	iew All C Up	Download Used	Used
En	ter code to c Code 0BXH45	heck: Time 30 mins	Type single	Used NO	Check Coo Time Left 30 mins	Down kbit/s	Up kbit/s	Download Used 0	Úsed 0
	Code to c Code 0BXH45 0T0W1F	heck: Time 30 mins 30 mins	Type single single	Used NO NO	Check Coo Time Left 30 mins 30 mins	le V Down kbit/s *	Up kbit/s	Download Used 0 0	Used 0 0
	Code OBXH45 0T0W1F 20EY1E	Time 30 mins 30 mins 30 mins	Type single single single	Used NO NO NO	Check Coo Time Left 30 mins 30 mins 30 mins	Down kbit/s	Up kbit/s * *	Download Used 0 0 0	Used 0 0
	Code OBXH45 0T0W1F 20EY1E 4LL5DH	Time 30 mins 30 mins 30 mins 2 hours	Type single single single single	Used NO NO NO	Check Coord Time Left 30 mins 30 mins 30 mins 2 hours	Down kbit/s * * *	Up kbit/s * *	Download Used 0 0 0 0	Used 0 0 0
	Code OBXH45 0T0W1F 20EY1E 4LL5DH 7158TB	Time 30 mins 30 mins 30 mins 2 hours 30 mins	Type single single single single single	Used NO NO NO NO	Check Coord Time Left 30 mins 30 mins 30 mins 2 hours 30 mins	Down kbit/s * * * *	Up kbit/s * * *	Download Used 0 0 0 0 0 0 0	Úsed 0 0 0 0
	Code 0BXH45 0T0W1F 20EY1E 4LL5DH 7158TB 9F6KRE	heck: Time 30 mins 30 mins 30 mins 2 hours 30 mins 2 hours 2 hours	Type single single single single single	Used NO NO NO NO NO	Check Coo Time Left 30 mins 30 mins 30 mins 2 hours 30 mins 2 hours	Down kbit/s * * * *	Up kbit/s * * * *	Download Used 0 0 0 0 0 0 0 0 0 0	Úsed 0 0 0 0 0 0
	Code 0BXH45 0T0W1F 20EY1E 4LL5DH 7158TB 9F6KRE C6KQYQ	heck: Time 30 mins 30 mins 2 hours 30 mins 2 hours 30 mins 30 mins 30 mins	Type single single single single single single	Used NO NO NO NO NO NO	Check Coo Time Left 30 mins 30 mins 2 hours 30 mins 2 hours 30 mins 2 hours 30 mins	be V Down kbit/s * * * * * *	Up kbit/s * * * * *	Download Used 0 0 0 0 0 0 0 0 0 0 0 0	Úsed 0 0 0 0 0 0 0 0 0

#### View all codes page





Available access codes are shown in the list of generated codes. When the time of a code has expired it remains in the list for seven days before automatic deletion. An expired code can be removed from the list by clicking in the box to the left of the code then clicking the 'Delete checked codes' button and multiple codes can also be deleted. When codes are removed from the list new codes can be generated. The list of codes can be downloaded in a CSV format and copied into a spreadsheet for analysis.

The type of code that is generated will depend on your business and the type of Internet service that you want to offer your guests.

For example, if you own a coffee bar and want to provide free Internet then give your guests a 30-minute access code but only with a purchase. This will avoid Internet users filling your tables and not buying your products. If the guest wants to continue to access the Internet after 30 minutes then he or she has to make a second purchase to get a new code.

In summary, you have to select the parameters for each code or block of codes according to the needs of your business.

The access code parameters that can be configured are:

- Number of codes
- Duration of each code (30 minutes to 180 days)
- Type of code (single user of multi-user)
- Download speed limit (in Kbytes/second)
- Upload speed limit (in Kbytes/second)

The screens on the previous pages showed the generation of the access code where the name was composed of random numbers and letters. An easily remembered name can also be typed in to use as the access code. Note that if the code is easy to recognize then unauthorized users will also discover the code and get access to the Internet. The custom access code name must not include spaces. If it desired to separate two words then the underscore character can be used. The code name is limited to nine characters maximum.

Guests and visitors who have been given codes for Internet access may complain that the code cannot be used or the time was too short. Any access code can be verified. First type the code into the 'Enter codes to check box', and then click on the **Check code** button. The current status of the code will be shown. This feature is especially important if you are selling codes and have to address customer complaints regarding the Internet service.





## 29: Status Functions: System Information

On completion of the administrators login process the system information screen is displayed (shown below). The information displayed shows;

- Product model (required for firmware upgrades)
- Firmware version (required for firmware upgrades)
- Serial number (required for firmware upgrades)
- Verification that the device is connected to the Internet
- Current date and time and timezone
- Authenticated users and codes used
- WAN and LAN port network configurations
- Status of firewall, content filter, remote access and Dynamic DNS
- Information text box for configuration notes

<del>(</del>) 🚯 http://aplogin.... 🔎 - 🗟 🖒 🗙 n \star 🔅 System Information × Internet Hotspot Gateway uest Internet Solutions GIS-R5+ Connected to the Internet: YES System Information Setup Wizard ¥ Status Uptime: 03h 03m 17s System information aplogin.com Hostname: Connected users Date / time: 03/11/13 03:38:42 PM [Reset] Usage reports Timezone: US/Eastern **Billing reports** Firmware version: 2.3.0a Management Serial Number: 392f750f Manage codes Hotspot availability NEW login code ticket printer available Change password 150 Print login codes for hotspot users with the click of a button. Reboot system Ask your reseller about the new Point-of-Sale style ticket printer. Advanced Settings ¥ Hotspot enabled: YES [View Schedule] Authenticated users: 0 Codes used: 1 WAN IP address: 10.1.10.57 (dhcp) WAN MAC address: 00:27:22:ED:DA:BC I AN IP address 192 168 96 1 LAN DHCP range: 192.168.96.10 - 192.168.111.254 Firewall Enabled Content filter: Disabled Remote access: Disabled Dynamic DNS: Disabled Notes: (Private information about this device) Save irks and logos are property of their re

System Information Display



•

Four main menu topics are shown, and each main menu has several configuration pages:

- Setup Wizard
- Status (includes this system information page)
- Management
- Advanced settings

The management menu is used to manage the product for day-to-day use. Click on the down arrow to expand the Setup Wizard and the Advanced settings.





## 30: Status Functions: Connected Users

**Connected Clients Menu** 

Page

Clicking on the **Connected Users** menu will show the page seen in the figure below.

There are two boxes, Authenticated users and Connected users.

Connected users lists all the computers that are connected to the gateway unit: they have requested and obtained an IP address.

The authenticated users box shows all the guests that have provided a valid access code (controlled access mode) or clicked on the disclaimer agreement button (unlimited access mode).

Information about connected clients is shown: MAC address, IP address allocated by the gateway unit, time that remains on the code, bytes out (use of the network) and the access code used.

🕞 Gu		t Internet S		-		to the Internet: Y			
Setup Wizard ¥		Connected Users The list below contains details of users connected to this device.							
Status System information									
Connected users Usage reports		Authenticated users (logged in):							
Billing reports	Γ	Mac address	IP address	Time left	Bytes In / Out	Code			
Management	1	80:C1:6E:45:07:B7	192.168.96.10	0d 23h 59m	305K / 105K	XX			
Manage codes Hotspot availability Change password Reboot system Advanced Settings <b>T</b>			Cor	Inected users		lock user from this hotsp asses can be released <u>he</u>			
Advanced Settings +		Mac Address	IP Address	Blocked IP	Blocked MAC	Allowed MAC			
		1 80:C1:6E:45:07:B7	192.168.96.10	No	No	No			
		MA		P addresses are blo Abuse can t	) and by the firewall, they oked automatically for abu a caused by viruses, trop are automatically remove	sive use of the service ans or a malicious user			

Clicking on the blue 'X' in the right hand column will disconnect that authenticated user.

Clicking on the red 'X' in the right hand column will disconnect that user, and include the users computer MAC address in the blocked MAC list, preventing the user accessing the Internet.

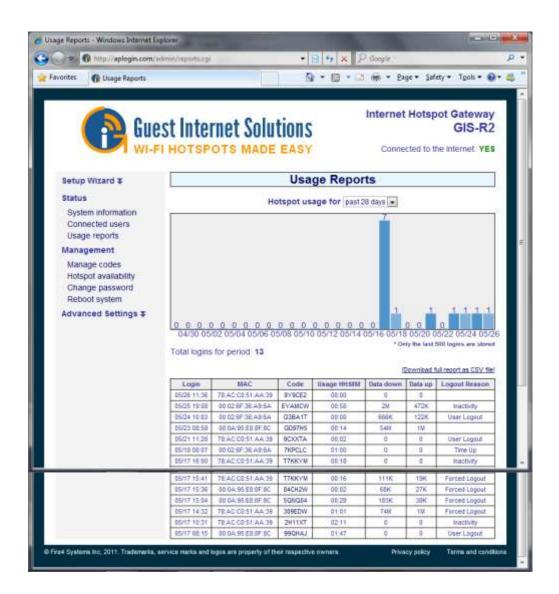




## 31: Status Functions: Usage Report

Clicking on **Usage reports** will display the page shown below. The last 1000 entries are stored and displayed on this page. The number of users per day is shown on a time-varying graph that can extend up to 28 days.

The usage data can be downloaded in a CSV format and loaded into a spreadsheet program such as Excel for further analysis. The data table had seven parameters for each entry: Login time, MAC address, Access code used, Time connected, Downloaded data volume, Uploaded data volume, Logout reason.



#### Logout reasons:

"None / Error", "User Logout", "Time Up", "Inactivity", "Forced Logout", "User Banned", "User Blocked (P2P)", "Duplicate", "No Logout"





## 32: Status Functions: Billing Report (GIS-K3, GIS-R3 to GIS-R20 only).

The GIS-R3 to R20 products include PayPal<sup>™</sup> credit card billing functionality for public hotspots and Internet cafes. Please see the later section: Advanced Settings: Credit Cards / PayPal<sup>™</sup>, for additional information about credit card billing.

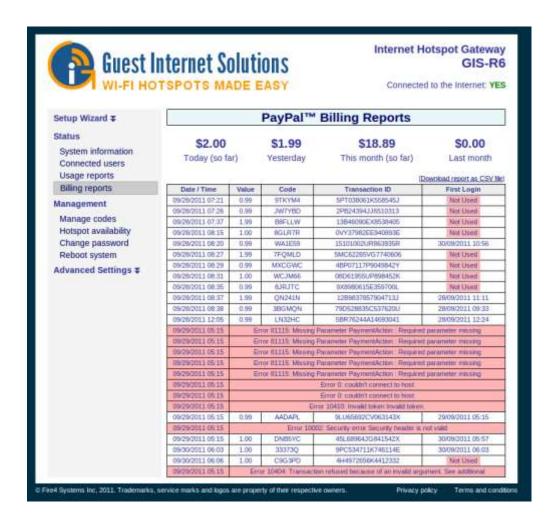
The status functions section includes a billing report that summarizes the transactions process.

All GIS products comply with the Payment Card Industry Data Security Standards (PCI DSS) recommendations for computer systems that process credit card transactions. This includes Point of Sales Systems (PoS) and Internet Kiosks. GIS systems do not store credit card information. Each transaction record is identified by a transaction ID. The merchant can login to the PayPal<sup>TM</sup> business account and locate the transaction details using the Transaction ID. GIS units also send transaction emails to both the merchant and purchaser with a notification of the transaction.

The billing report display shows four account parameters:

- Total sales during the current day
- Total sales during the previous day
- Total sales during the current month
- Total sales during the previous month.

The table displays information about each transaction. The table contents can be downloaded as a CSV file and imported into accounting software such as Quickbooks<sup>™</sup>.







## 33: Management Functions: Manage Codes

If your Guest Internet gateway has been configured for the controlled access mode then you can login as *admin* to use the **Manage Codes** menu page or login as *codes* to use the Manage Codes page (previous section). This page is used to generate codes in several different formats and to cancel codes. It is also used to list outstanding codes. Codes can be downloaded in a CSV format (comma separated value) and then used by popular word processors such as MS WORD<sup>™</sup> to print the codes onto Avery peel-off labels. When the Manage Codes menu option is selected the page shown below appears. The upper part of the box is used to generate codes; the lower part of the box is used to manage codes. Up to 1000 access codes for the GIS-K2/R2 and 10,000 access codes for other products can be generated. The code duration can be selected from 30 minutes to 180 days. One of two codes types can be selected

- **Normal**: Only one guest can use this code. The code runs to completion after login. The duration of the code is selected by the length option.
- **Multi-User**: Many guests can use this code concurrently for the duration set for the code. Note that the counter starts the first time that the code is used by any user, and the code expires after the duration set for the code. Subsequent users will therefore have less time available than the time set for the code.

Two other buttons are available, **Check Code** and **View all Codes**. A code that has been given to a guest can be checked for validity. This is important if you are selling codes to guests. Type the code into the box then click on the Check Code button. A report will be shown of the remaining time for that code.

Clicking the View all Codes button will display all codes that have been generated and show the status of each. You can see this in the display below.

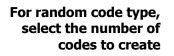


Access code generation and management page, the access code type is random: a random name will be generated



Access code generation and management page, the access code type is custom: a name up to 9 digits can be entered – spaces are not allowed. An example for an access code is `cityhotel'. Only one code can be generated with this name.

	EXAMPLE 2 ST INTERNET SOLUTIONS FI HOTSPOTS MADE EASY Connected to the Internet: YES
Setup Wizard ¥	Access Code Management
Status System information Connected users Usage reports Billing reports Management	Create codes:       You have you used 1 of 10000 codes         Code Text:       Custom         Expiry Time:       30 mins         Download Limit:       Default         Upload Limit:       Default
Manage codes Matage codes Hotspot availability Change password Reboot system Advanced Settings ¥	Single User:       Code can only be used by one user at a time. Code expires at pre-set time after first login.         Multi User:       Code can be used by many users at the same time. Code expires at pre-set time after the code was first used.         You can also use <a href="http://aplogin.com/codes/">http://aplogin.com/codes/</a> to manage codes, <u>set a password.</u> Import codes       from a CSV file, all existing codes will be replaced.
	Check / Delete Codes: Codes are automatically deleted 7 days after they expire Enter code to check: Check Code View All Codes







Select the duration of the code(s) from 30 minutes to 180 days, or unlimited

	INTERPORT SOLUTIONS
Setup Wizard ∓	Access Code Management
Status System information Connected users Usage reports Billing reports Management	Create codes:       You have you used 1 of 10000 codes         Code Text:       Random       Number of codes to create: 1         Expiry Time:       30 mins       User Type:       Single         Download Limit:       1 hour       Upload Limit:       Default       Create Codes
Manage codes Hotspot availability Change password Reboot system Advanced Settings <b>T</b>	Single User: Cod 3 hours       sed by one user at a time. Code expires at bogin.         You can also use 4 days       y many users at the same time. Code expires at login.         You can also use 4 days       m/codes/ to manage codes, set a password.         Import codes from 6 days       sxisting codes will be replaced.
	Check / Delete 0 days 0 days Enter code to che <sup>180</sup> days Check Code Check Code Check Code Check Code Check Code



Select the type of code(s): single user or multi-user



Select download speed limit for the code(s) (in Kbytes/second). If the speed you want is not in the drop-down menu then select custom and type in the speed in Kbits/sec.

Select upload speed limit
for the code(s) (in
Kbytes/second). If the
speed you want is not in
the drop-down menu
then select custom and
type in the speed in
Kbits/sec.

Gue Wi-F	St Internet Solutions I HOTSPOTS MADE EASY	S-R5+
Setup Wizard ∓	Access Code Management	
Status System information Connected users Usage reports Billing reports Management	Create codes:       You have you used 1 of 10000 codes         Code Text:       Random       Number of codes to create: 1         Expiry Time:       30 mins       User Type:       Single         Download Limit:       Default       Vlpload Limit:       Default       Create C	odes
Manage codes Hotspot availability Change password Reboot system Advanced Settings <b>T</b>	Single User: CoC 64 kbit/s pre-128 kbit/s Multi User: CoC 512 kbit/s Soc 512 kbit/s You can also use 268 kbit/s You can also use 268 kbit/s 2048 kbit/	
	Check / Delete Codes: Codes are automatically deleted 7 days after they exp Enter code to check: Check Code View All Codes	ire 🔹

Gen Gun	est Interne						otspot Gatewa GIS-R5 d to the Internet: YE	
Setup Wizard ∓	Access Code Management							
Status System information Connected users	Create codes:	You have y	ou use	d 1 of 10000 co		. 1		
Usage reports Billing reports	Expiry Time:	30 mins		User Type:	Single			
	Download Limit	Default		Upload Limit	Default Default		Create Codes	
Management Manage codes Hotspot availability Change password Reboot system Advanced Settings <b>T</b>	Multi User: Co	e-set time al ode can be u pires at pre- e <u>http://aplo</u>	ter first ised by set tim gin.con	login. many users at t e after the code <mark>v/codes/</mark> to mana	32 kbit/s 64 kbit/s 128 kbit/s 256 kbit/s 512 kbit/s 768 kbit/s 1024 kbit/s 2048 kbit/s		xpires at ode password	
	Check / Delete		des are		leleted 7 day		ter they expire	



The screen shows the generation of an access code with a random name.

Access code verification.
Type in the access code
to display all information
about that code

Setup Wizard ∓	Access Code Management	
Status System information Connected users Usage reports Billing reports Management	Create codes:       You have you used 2 of 10000 codes         Code Text:       Random       Number of codes to create: 1         Expiry Time:       30 mins       User Type:       Single         Download Limit:       Default       Vulcad Limit:       Default       Create	este Codes
Manage codes Hotspot availability Change password Reboot system Advanced Settings ¥	New Codes: <u># Code Time Type Down Up</u> 1 0T0W1F 30 mins single user default defau Download CSV file	10
	Check / Delete Codes: Codes are automatically deleted 7 days after they Enter code to check: Check Code View All Co	

Generation Gue		Itern ISPOT						Connec	G ted to the In	ternet: YE	
Setup Wizard ∓		Access Code Management									
Status System information Connected users Usage reports Billing reports Management	Coo Exp	ate codes le Text: viry Time: vnload Lim	Rando 30 min	m [ is [	▼ N ▼ L	? of <b>10000</b> co lumber of co Jser Type: Jpload Limit	odes to o Single	1	-	Codes	
Manage codes Hotspot availability Change password Reboot system Advanced Settings \$		eck / Delet er code to			are at	utomatically Che	deleted	_	after they ex		
-		Code	Time	Туре	Used	Time Left	Down kbit/s	Up kbit/s	Download Used	Upload Used	
		OTOW1P	30 mins	single	NO	30 mins	112	े	00	0	
	De	lete checke	d codes	file			* [	)efault b	andwidth lin	nit (kbit/s)	



List all access codes generated. The access code list shows the code, the duration of the code, the code type, if used, the time remaining, and the download/upload maximum speeds set for the code. Check the box then click on 'delete checked codes' to delete the codes and increase the number of codes that can be generated.

WI-F	EST Internet Solutions I HOTSPOTS MADE EASY Connected to the Internet: YES									
Setup Wizard ¥	Access Code Management									
Status System information Connected users Usage reports Billing reports Management	Code Text: [ Expiry Time: [		Rando 30 min	mins Vser Type: Single						
Manage codes										
Hotspot availability Change password Reboot system Advanced Settings ∓	Check / Delete Codes: Codes are automatically deleted 7 days after they expire Enter code to check: Check Code View All Codes									
		Code	Time	Туре	Used	Time Left	Down kblt/s	Up kblt/s	Download Used	Upload Used
		OTOW1F	30 mins	single	NO	30 mins	-	+	0	0
		т	1 day	mutti	NO	1 day	- 84	. P	9M	839K
	De	lete checke	ed codes	1						2010140

Up to a maximum of 10,000 codes can be shown in the list of generated codes. When the time of a code has expired it remains in the list for seven days before automatic deletion. An expired code can be removed from the list by checking the box to the left of the code and clicking on the 'Delete checked codes' button. When codes are removed from the list new codes can be generated. The list of codes can be downloaded in a CSV format and copied into a spreadsheet for analysis.

The type of code that is generated will depend on your business and the type of Internet service that you want to offer your guests.





# 34: Management Functions: Hotspot Availability

Default Hotspot availability screen, always enabled Hotspot availability permits the gateway to be enabled or disabled during a weekly cycle. Clicking on the **Hotspot availability** menu opens the default page, which shows always enabled.

Click on the right hand arrow to see the drop down menu.



If 'schedule access' is selected from the drop-down menu then the selection table is displayed (shown on the following page).

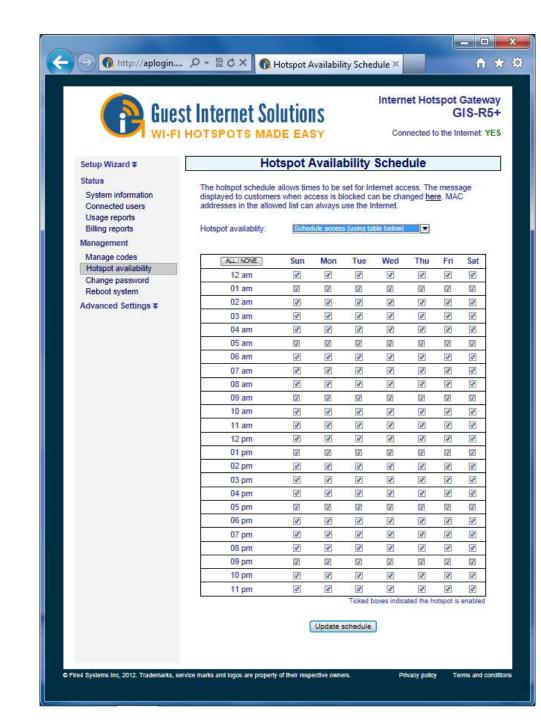
The Hotspot can be enabled or disabled in increments of 1-hour, during a 7-day period.

Each hourly selection box is checked for enabled when the table is first opened. Uncheck the boxes when the Hotspot service should not be provided.

For example, to configure availability for a dental office where the hours of operation are 9AM to 5PM, Monday to Friday, uncheck the boxes as follows. First uncheck all boxes 12AM to 8AM, Monday to Friday. Next uncheck all boxes 5PM to 11PM Monday to Friday. Finally uncheck all boxes for Saturday and Sunday.

At the times when the Hotspot has been disabled, the login screen will display the message "this hotspot is not available". The message that is displayed can be changed, see the Login messages menu page.





# Hotspot availability selection table





# 35: Management Functions: Change Password

Change Password Menu Page During the wizard setup procedure a password must be typed in for the administrator login. The **Change Password** menu option is used to change the password at any time after the initial setup procedure.

The change password menu page is shown in the figure below.

Gue Gue	est Internet S	olutions	Internet Hotspot Gateway GIS-R5+
WI-F		ADE EASY	Connected to the Internet: YES
Setup Wizard ¥		Change Pa	assword
Status System information Connected users Usage reports Billing reports Management	password you will ha this will allow access admin pages.	ve to reset to factory defite to the code management	a new password below. If you forget the aults. A codes password can also be set, it interface without allowing access to the http://aplogin.com/admin
Manage codes Hotspot availability	Username:	admin	
Change password	New Password: Retype:		
Reboot system Advanced Settings ¥		Change admin	n password
	Password to access	s the codes interface at	http://aplogin.com/codes
	Username:	codes	
	New Password: Retype:		
		Change code:	s password

Two passwords are required. The first is the *admin* password that is used to access the Admin pages: this password was entered during the Wizard setup process.

The second is the *codes* password is required for login to the Codes page (see previous sections). The codes page is used to create and administer access codes, however there is no access to other administration pages. The codes page is also used when the ticket printer GIS-TP1 is used with the gateway.

Always make a note of your passwords and keep in a safe place: if the admin password is lost then the Guest Internet gateway will have to be reset to factory defaults and you will have to configure the device again.





## 36: Management Functions: Reboot System

The reboot system function restarts the device. Some functions may require the device to be rebooted before the changes take effect.

To reboot the device select **Reboot System** from the menu. The screen will show the page in the figure below.

C S Gue	est Internet Solutions	Internet Hotspot Gateway GIS-R54
WI-F	I HOTSPOTS MADE EASY	Connected to the Internet: YE
Setup Wizard ₹	Rebo	ot
Status System information	Click the button below to reboot, you'll be to	old when the reboot is complete.
Connected users Usage reports	Reboot N	low
Billing reports Management	The system can be set to automatically rebo auto reboot simply select the time.	oot at any time of the day, to set up an
Manage codes Hotspot availability	Set auto reboot: disabled	
Change password		

**Reboot Menu Page** 

Click on the **Reboot** button to restart the device.

The firmware is reloaded and all interface ports are initialized using the data stored in the configuration file. The reboot procedure will be required after uploading a login page, for example. Each command will indicate if the unit should be rebooted on completion of the command so that the command takes effect.

When the device has been rebooted there will be a pause of approximately three minutes before it becomes functional again. This process is the same as cycling the power to the device.

The reboot page also has a drop down menu for 'set auto reboot'. The drop down menu permits a time to be selected to reboot the device each day (see the next page).

The auto-reboot should be selected for a time of day when no one will be using the hotspot, for example 3AM.

The auto reboot is very useful to release resources allocated by users. For example, IP's will be allocated and will only expire after the termination of the IP lease time. The auto reboot forces the release of IP leases to free up resources for new users. This feature is very useful for a hotel environment.





Auto Reboot time selection





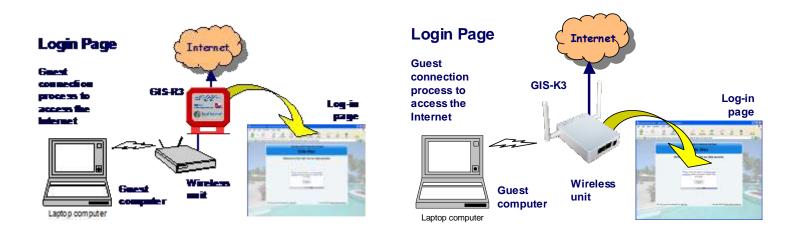
# 37: Advanced Settings: Login Settings

The login page is a mechanism to present the Internet user with a browser page with authorization request box (sometimes called the splash page) when the user attempts to access a Web site.

When with login page is displayed on the users computer an access code can be entered if the unit is configured for controlled access. The login page also has an unlimited access mode where no access code is required to connect to the Internet, however the user has to agree to the terms and conditions of use. The user can click on a link to read the terms and conditions. This procedure offers legal protection to business owners who offer Internet hotspot access for their customers.

The unlimited access mode also has a timer that determines how long users are permitted access to the Internet: this is a feature for coffee bars that want to avoid becoming free office space.

When the user opens a browser it will attempt to access the home page URL before showing the login page. When the user has completed the login process then the browser window shows the users home page. The login page is customized during the wizard setup process. The login page process is illustrated in the diagram below.



The login page design is selected during the wizard setup process. A custom login page can also be created and uploaded to the gateway. If you require help to prepare a custom login page then please email for additional information at: **info@guest-internet.com** as we have partners who can prepare custom login pages.

The login box displays the business owner's information that was entered during the wizard setup process. This information includes the business name, the business address, telephone number, email and website. The business website address is displayed as a link that the user can click on to see the business web page. The user can see the business web page without logging in. However the user cannot navigate away from the business web site until the login process is completed. When the login page menu entry is clicked then the page shown below will be seen in the browser window.





	the second second second	Internet	Hotspot Gateway
( 🔊 Gue	st Internet Solu	tions	GIS-R5+
	HOTSPOTS MADE		ted to the Internet: YES
I WI-F	THOTSPOTS MADE	EAST	to the memor. TES
Setup Wizard ∓		Login Page Settings	
Status	10.000		
System information	The login page is used to to use the Internet.	display a login box to customers before	ore they are allowed
Connected users Usage reports	1120 March 100 March		
Billing reports	Login page type:	Unlimited access (Agree to disclaimer)	
Management	URL of site:	http://	
Manage codes	Your web site		
Hotspot availability		Force user to visit this web site a	after login
Change password	Enable timer window:		2010-01-02-0
Reboot system	clique uner whicow.	Display pop-up with countdown	after login
Advanced Settings ¥	Inactivity logout time:		E. H.
Login settings	Log off inactive users	60 Time in minutes, set to 0 t	o disable
Login messages Credit Card / PavPal			
Disclaimer text	Default logout time: Unless set by code	0 Time in minutes, set to 0 t	o disable
Time zone	Contraction and a contract		
Email setup	Authentication type:	MAC and IP address (default)	
Content filter			
Dynamic DNS Bandwidth control	Custom login page sett	ngs:	
Network interfaces	Use wizard:	Use the wizard to set up the login p	age
Firewall			-
Port forwarding	Custom background:	Browse Background Image must be a JPEG, max size	
Monitoring / alerting			⇒ <sup>0</sup>
Hostname Allowed IP list	Custom login page:	ZIP archive, see manual for details, max size	is 196kb
Allowed MAC list			
Blocked MAC list	WARNING: All hotspot us	sers will be logged out when settings	are changed
Printer Setup			
Upgrade firmware		Change settings	
Backup & restore			

Several configuration parameters can be modified: the function of each is explained below.

- **Login page type**: The drop down menu has four options, two of which were available for selection during the wizard setup process.
  - Open access: permits all users to connect directly to the Internet without the login page. All firewall restrictions apply (e.g. download speed control)
  - Unlimited access: shows the login page, the user has to click on the disclaimer button accepting the terms and conditions.
  - Registered access: an additional page before the unlimited access page where up to 3 data fields can be defined. The user has to provide the data requested before proceeding to the login page. The data collected (not validated) is sent via email to the hotspot owner.
  - Controlled access: shows the login page, the user has to type an access code to connect to the Internet. If credit card billing is configured then controlled access must always be selected to display the payment button.





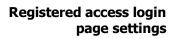
- **URL of site**: This is the Web site of the business providing Internet service. This website URL can become the *landing page* (substituting the users home page) by checking the box below to force visit to this website.
- **Enable Timer window**: checking this box will enable the pop-up timer window that the user sees after completion of the login process.
- **Inactivity logout time**: This is a timer (shown in minutes, the default is 5 minutes) after which a user will be logged out when the user has stopped using the Internet. This feature releases resources so that more people can use the Internet service. Note that most computers have tasks that constantly connect to the Internet even when the computer is not being used. The inactivity logout time will therefore be effective when the computer is put into sleep mode (laptop screen closed) or switched off.
- Disclaimer logout time: This timer is normally set to zero: zero means it is inactive. The timer is in minutes. This timer is used with the unlimited access and registered access modes, and will disconnect the user after the time specified. This feature is useful for a restaurant or coffee bar that prefers not to give codes for Internet access, but wants to limit the time that each user has access to the Internet, before having to login again.
- Authentication type: When computers are authenticated then the default is to associate both the IP address and the MAC address of the computer with the access code. In some cases it is desired to authenticate the user by IP address only (a) when it is desired to permit the user to used one access code with several devices (not simultaneously), and (b) when a wireless distribution network has been configured for guest access, however WDS is not activated for point to point links for whatever reason in this case the MAC address is the wireless access point, not the users computer).
- **Custom login page settings**: there are three custom login page options available: the wizard selects 1 of 10 backgrounds, a custom background can be uploaded, and a custom login page can be programmed using HTML. Additional details are provided in the following sections.

When the registered access login page is selected then more settings are displayed in a red box. The settings are parameters that are sent to the hotspot owner contained in an email in order to record information provided by users. Note that the email settings page has to be configured before the registered access login page settings. The registered access login page settings are as follows:

- **Custom data field 1**: A label is given to this field and displayed for the user on the login page, and example for the field is 'name'.
- **Custom data field 2**: A label is given to this field and displayed for the user on the login page, and example for the field is 'email'.
- **Custom data field 3**: A label is given to this field and displayed for the user on the login page, and example for the field is 'telephone'.
- **Collect MAC address**: when the box is checked the MAC address of the users computer is recorded and included with the email containing the user-entered information.
- **Collect browser type**: when the box is checked the browser type of the users computer is recorded and included with the email containing the user-entered information.
- **Send to email**: the email address to which the information is to be sent (the email configuration settings must be completed first to specify how the email will be sent via SMTP).
- **Email subject**: type the subject line of the email that is sent to identify which gateway the message was sent from.
- **HTTP post to URL (PROGRAMMERS ONLY):** The collected information can be sent to a server, however programming skills are required to write software for the server that will receive the message and format the data.

The registered access login page settings are shown in the figure below.





	st Internet Solu	Internet Hotspot Gate	
	HOTSPOTS MADE		
Setup Wizard ¥		Login Page Settings	
Status System information Connected users	The login page is used to to use the Internet.	display a login box to customers before they are allowed	t
Usage reports Billing reports	Login page type:	Registered access (Collect Email address)	
Management	URL of site: Your web site	http://	
Manage codes Hotspot availability Change password		E Force user to visit this web site after login	
Reboot system Advanced Settings <b>a</b>	Enable timer window:	Display pop-up with countdown after login	
Login settings	Inactivity logout time: Log off inactive users	60 Time in minutes, set to 0 to disable	
Login messages Credit Card / PayPal Disclaimer text Time zone	Default logout time: Unless set by code	0 Time in minutes, set to 0 to disable	
Email setup Content filter	Authentication type:	MAC and IP address (default)	
Dynamic DNS Bandwidth control	Registered access data	collection:	
Network interfaces Firewall Port forwarding Monitoring / alerting Hostname	example ask for their nar sent to the designated er	lata can be collected from your guest, you could for ne, email address and age. The data collected will be nail address every time a guest logs in. You should o guests know how their data will be used. Name	
Allowed IP list Allowed MAC list Blocked MAC list	Custom data field 2: Data to collect eg: Email	Emsil	
Printer Setup Upgrade firmware Backup & restore	Custom data field 3: Data to collect eg: Age		
Dackup & residie	Collect MAC address:	Record guest's MAC address	
	Collect browser type:	Record guest's web browser type	
	Send data to email:	Email address to send data to. Email must be set up.	
	Email subject:	Data collected from hotspot ID 392f750f e.g. Data collected from Joe's Burger Bar Hotspot	
	HTTP post to URL: Programmers only	URL to post to (https://myserver.com/post.php)	
	Custom login page sett	ings:	
	Ø Use wizard:	Use the wizard to set up the login page	
	<ul> <li>Ose wizaru.</li> <li>Custom background:</li> </ul>	Browse	
	Custom login page:	Background image must be a JPEG, max size is 196kb	
		ZIP archive, see manual for details, max size is 196kb	
	WARNING: All notspot us	ers will be logged out when settings are changed	

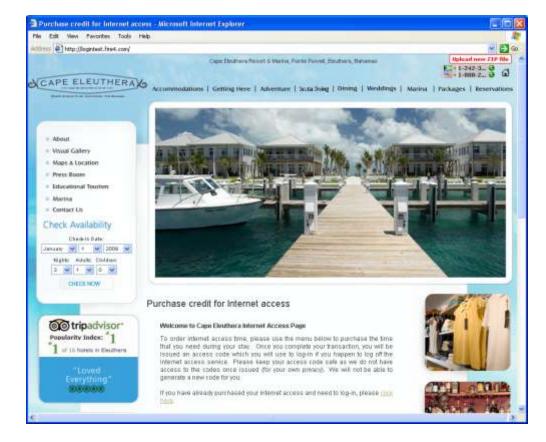




Using the wizard login page	The wizard login page setup has 12 background options suitable for different businesses. A thumbnail picture of each login screen was shown during the wizard setup process.
	<ul> <li>Restaurant</li> <li>Coffee bar</li> <li>Sports bar</li> <li>Hotel</li> <li>Resort lobby area</li> <li>Resort pool area</li> <li>Business center</li> <li>Church</li> <li>Library</li> </ul>
	The login page background can be changed at any time by logging in to the unit as admin and then clicking on the setup wizard menu option. Select the 'login page branding' option and then select the desired background.
	Finally save the selection by clicking on 'save setting and continue to step 4' and then on 'save settings and finish'.
Login page custom background	A login page custom background can be created in JPG format and uploaded using this feature. The image size should not exceed 196KB, however it should be made as small as possible so that the login page loads quickly for the user. The background image will be placed behind the login information box and the image contrast will be reduced to highlight the information box. The image can be a composite photo plus logo prepared using software such as Photoshop.
Custom login page	A custom login page can be created using HTML code and uploaded to the Guest Internet gateway. Login page sample designs can be downloaded from the Guest Internet website at:

#### http://www.guest-internet.com/loginpages

A custom design log in page can include advertising banners. When the login page design has been prepared it can be tested using our simulator before installation. An example of a customized login page with banner advertising is shown below.





**Custom Login Page** 

Example



The only requirement to create a login page is knowledge of programming using HTML code and Javascript. The completed program is saved as a ZIP archive (e.g. using WinZip, not the MAC zip). The login page can be customized with a logo, a corporate identity, and information about the hotspot or public Internet service.

The login page file size cannot exceed 196KB. However try to keep the file size below 50KB so that it loads quickly for the user. If your product firmware is older than 2.1r\_b14 please email technical support (<u>info@quest-internet.com</u>) requesting a new firmware installation. The login page is uploaded to the gateway as a single zip file, this zip file needs to contain a file called **'login.html'** (all lower case, be careful not to call the file Login.html). The login.html file must include the text shown below to locate the login box on the page.

#### '<!--LOGIN-->'

Login page examples can be seen in the sample login.html file which can be downloaded from

#### http://www.guest-internet.com/loginpages

The zip file can contain images, flash files, HTML files etc. The zip file can contain any number of directories and files; the files will be uncompressed by the gateway during initialization. The directory structure in the zip file will be maintained when the files are unzipped. The file **login.html** works as the index page: any HTML pages linked to, or from, login.html can also be seen when using the gateway.

We provide a login page zip file simulator for testing new login pages. In order to test your **login.zip** file we have a server application that will emulate a gateway. If you upload your **login.zip** to this application first then you'll get feedback about any issues. To access the application go to:

#### http://logintest.guest-internet.com/ User: test Pass: logintest

When you log in you will see a red box in the top right hand corner, click on this box and you will be able to upload your **login.zip** file for test. If there is a problem with your zip file the simulator will tell you, otherwise it will display the page with the login box.

When your login page has been tested you can login to the gateway admin page, click on ADVANCED SETTINGS and then click on LOGIN SETTINGS. The last option in the list is CUSTOM LOGIN PAGE. Use this option to upload your zip file.

A custom login page can be part of a business website, with menu tabs that link to the website. All URL's used on the website must be entered into the gateway URL table. The user can navigate between the login page and the business website. However if the user tries to navigate away to another web site then the login box will be shown. This type of login page is called a 'walled garden'

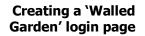
An example of a 'walled garden' login page is included with the zipped file downloaded at

#### http://www.guest-internet.com/loginpages

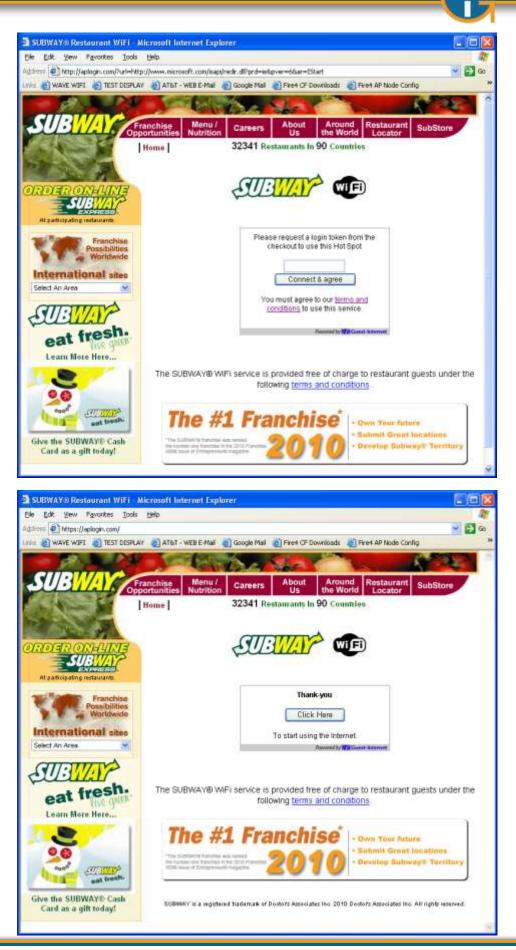
You will see two files, called **subway.zip** and **subway.txt**. Subway.zip is upoaded to the gateway as described above. Subway.txt contains a series of URL's that must be typed into the Allowed IP Address Table (see later section).

The subway.zip file is small as it uses graphic files from the company website. The menu tabs on the login page are linked to the company website. The user can navigate between the login page and the company website without having to login to the Internet: providing an access code or agreeing to the terms and conditions. However when the user tries to access any other website then the login box is presented on the screen.

The user is able to navigate all pages in the company website because all the URL's required for this are included in the Allowed IP Address Table. This is called a 'Walled Garden'. The Walled garden login page is shown in the figure on the next page.







'Walled Garden' login page

Internet access granted page





When the user types the access code and clicks on the 'connect and agree' button then the 'thank you' page appears, informing the user that the login was successful, and requesting the user to click a button to connect to the Internet.

When the button is clicked to access the Internet the users Web page appears (or the landing page if set). In addition a small optional window opens (if the 'enable timer window' box is checked) indicating the time that the user has been given to access the Internet. The window also has a link to permit the user to disconnect from the Internet. This window is disabled by default. This pop-up window may cause problems with portable devices that use the iOS and Android operating systems.





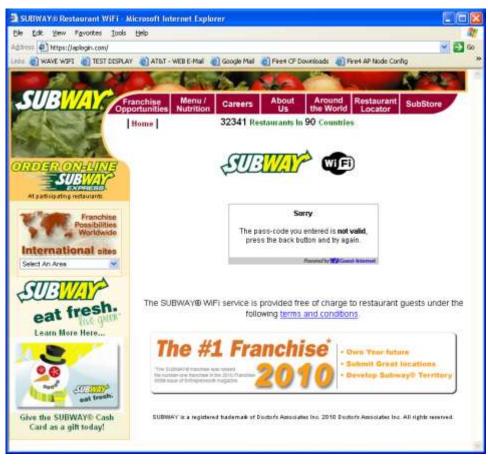
Countdown timer display

# Terms and conditions page

If the user clicks the login page link to the terms and conditions then the information appears as shown on the pages below. This information can be modified using the disclaimer editor (see the menu).







#### Login code error message

If the user enters the wrong login code then a message is shown in the login box





# 38: Advanced Settings: Login Messages

Login page message editor All messages displayed on the login pages can be modified. This is very useful if the hotspot is being setup in a non-English speaking country permitting interaction with the users to be in the native language.

	st Internet Sol		GIS-R5+
Setup Wizard ¥		Login Page Messages	
Status System information Connected users	The login page is used t	to display a login box to customers before they a following messages will be displayed to the cust	
Usage reports Billing reports Management	Access Message: Displayed at login (HTML may be used)	Enter a login token to use this Hot Spot	*
Manage codes Hotspot availability Change password	Access Message: Login button text	Connect & agree	
Reboot system Advanced Settings Login settings	Access Message: Terms of usage text (HTML may be used)	You must agree to our <a href='/disclaimer.cgi'</a 	\$
Login messages Credit Card / PayPal Disclaimer text	Access Message: Hotspot disabled (HTML may be used)	Sorry, this hotspot is not enabled. br/>>Please try later.	*
Time zone Email setup Content filter	Login Message: Use Internet button	Click Here	
Dynamic DNS Bandwidth control Network interfaces Firewall	Login Message: Use Internet text (HTML may be used)	To start using the Internet.	*
Port forwarding Monitoring / alerting Hostname Allowed IP list	Logout Message: When login expires (HTML may be used)	Sorry, the time is up br/>Please purchase more	<b>^</b>
Allowed MAC list Blocked MAC list Printer Setup	Logout Message: Logout button text	Logout	
Upgrade firmware Backup & restore	Timer Message: Timer window text (HTML may be used)	You will remain connected for	÷
	Timer Message: Timer window logout (HTML may be used)	Leave this window open. Click Logout when you are done.	•
	Logout Message: Text after logout (HTML may be used)	You have been logged out. Thanks.	-
	Logout Message: Close timer window	Close window	
	Error Message: When no Internet (HTML may be used)	Sorry, no Internet access. br/>Please try later.	× T
	Error Message: Login code invalid (HTML may be used)	The pass-code you entered is <b>not valid</b> , press the back	*
	Error Message: Login code in use (HTML may be used)	The pass-code you entered is <b>in use</b> , please get a new pass-	•
	Error Message: Login code expired (HTML may be used)	The pass-code you entered has <b>expired</b> , please get a new	*
		Change settings	





There are a total of 19 messages that can be modified. The messages are as follows:

- Access message 1: When the controlled access mode is selected this message is displayed in the login box shown on the login page. The default message reads, "Enter a login token to use this hotspot".
- **Access message 2**: This message appears on the button in the login box. The default message reads, "Connect and agree".
- Access message 3: When the unlimited access mode is selected this message is displayed in the login box. The default message reads, "You must agree to our terms and conditions (highlighted) to use this service".
- Access message 4: When the hotspot availability mode is enabled this message is displayed in the login box when the hotspot is inactive. The default message reads, "Sorry this hotspot is not enabled. Please try later".
- Login message 1: This message is displayed on the button in the box when the access code has been sucessfully entered. The default message reads, "Click here". The button is used to open the timer box.
- **Login message 2**: This message is displayed in the box below the button when the access code has been sucessfully entered. The default message reads, "to start using the Internet"
- Logout message 1: This message is displayed in the timer box when the access code time has expired. The default message reads, "Sorry, the time is up. Please purchase more time (highlighted) to continue".
- **Logout message 2**: This message is located inside the button of the timer box. The default message reads, "Logout".
- **Timer message 1**: This message is shown at the top of the timer box. The default message reads, "You will remain connected for". The time countdown is shown below.
- **Timer message 2**: This message is shown in the lower part of the timer box. The default message reads, "Leave this window open. (newline) Click logout when you are done".
- **Logout message 3**: This message is shown in the timer box after logout. The default message reads, "You have been logged out. Thanks".
- **Logout message 4**: This message is shown at the bottom of the timer box after logout. The default message reads, "Close window (highlighted)".
- **Error message 1**: The message "Sorry no Internet access, (newline) Please try later" is displayed in the login box when the Internet connector does not have a connection to the Internet.
- **Error message 2**: The message "Sorry you have been blocked, (newline) Please speak to a member of staff" is displayed in the login box when the user has been blocked due to a violation.
- **Error message 3**: The message "Sorry you have been blocked for using file sharing software, (newline) Please speak to a member of staff" is displayed in the login box when the user has been blocked due to the use of file sharing software.
- **Error message 4**: The message "There is a problem with this hotspot" is displayed in the login box when an operational error has been detected.
- **Error message 5**: The message "The passcode you entered is not valid, (newline) press the back button and try again" is displayed in the login box when the access code is not valid.
- **Error message 6**: The message "The passcode you entered is in use, (newline) Please get a new passcode" is displayed in the login box when the access code is used.
- **Error message 7**: The message "The passcode you entered has expired, (newline) Please get a new passcode" is displayed when the access code expired.





# 39: Advanced Settings: Credit Card /PayPal

(Not available with GIS-K1+)

The credit card billing feature allows an Internet hotspot operator to sell Internet access by charging the customers credit card. The feature requires the hotspot operator to have a valid business account with PayPal<sup>™</sup> which is used to charge credit cards. A personal PayPal<sup>™</sup> account cannot be used to charge credit cards. PayPal<sup>™</sup> will require the hotspot operator to provide valid business information, including a business bank account, in order to open a PayPal<sup>™</sup> business account.

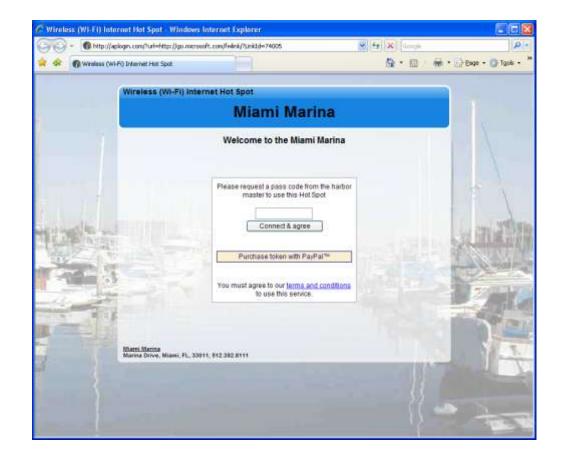
When PayPal<sup>™</sup> is used to charge for Internet access, users can pay with their PayPal account or a credit card. Users do not need a PayPal account to pay with a credit card.

In order to comply with PCI DSS (Payment Card Industry Data Security Standards) directives, GIS products do not store any part of the credit card information provided by the user. A log is maintained that has a transaction ID. When the hotspot operator needs additional information it is necessary to log into the PayPal<sup>™</sup> business account and use the transaction ID to obtain additional information about the transaction.

Guest Internet Solutions does not make any additional charge for credit card processing. The GIS gateway functions identically to a Point of Sale (PoS) terminal. Credit card charges are the sole responsibility of the hotspot operator, who is referred to as the 'merchant' in all transactions.

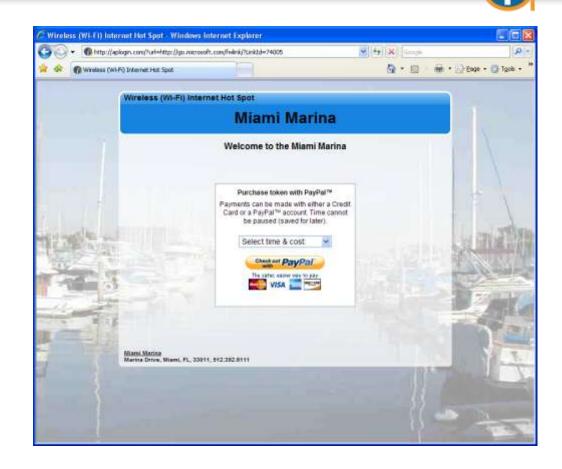
The credit card billing feature is not available on all product models. Currently it is available with the GIS-K3, GIS-R3 to GIS-R20 products.

When the credit card billing feature is activated the login page is modified to include an additional button 'purchase token with PayPal<sup>™</sup> as shown on the screen below.

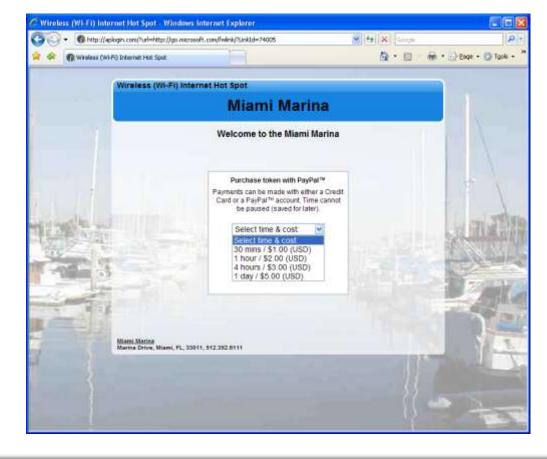


The login page has credit card billing activated. The additional button shows `Purchase token with PayPal™





When the PayPal<sup>™</sup> button is clicked a drop down menu is shown to select the time and cost of the Internet access. After the selection is made then the PayPal<sup>™</sup> button is clicked

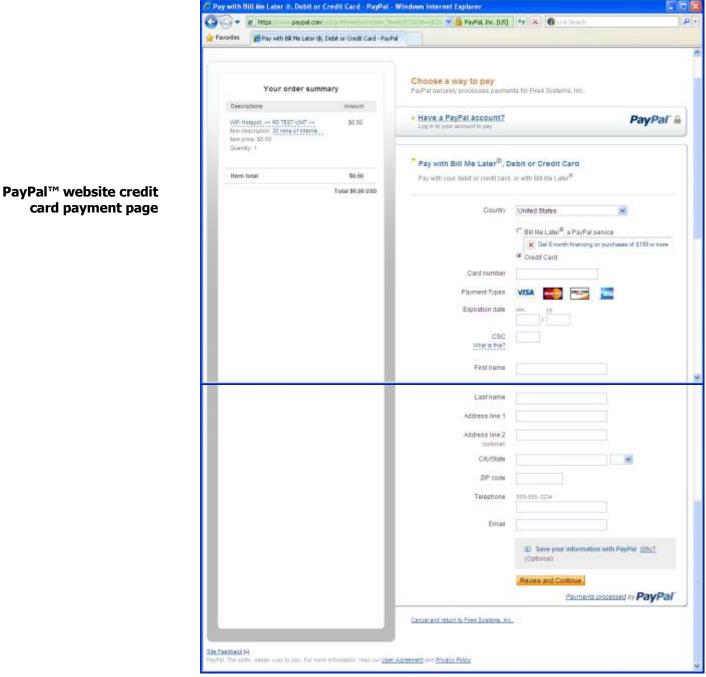


The login page drop down menu showing the Internet access options that have been configured



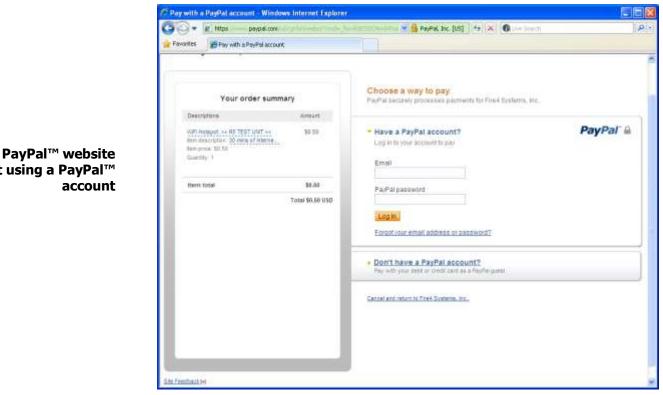


After the selection is made then the 'Check out with PayPal™' button is clicked. The user then sees the merchants payment page on the PayPal<sup>™</sup> web site. Payment can be made using a credit card as shown below.





Payment can also be made with a PayPal account. See the screen below.



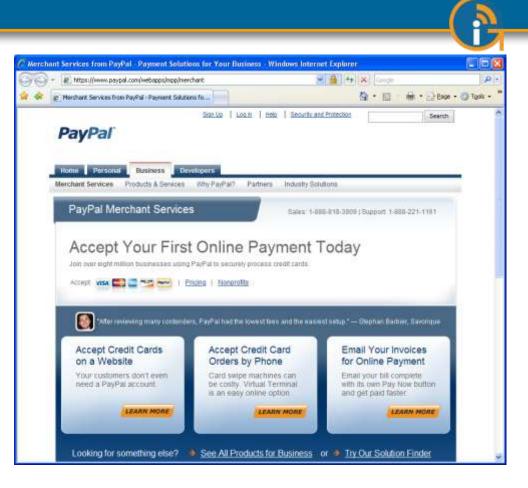
payment using a PayPal<sup>™</sup>

When the payment is completed then the GIS gateway displays an access code (token) for the user to note. A confirmation email is also sent by the GIS gateway to the users email address. A copy of the transaction information is also sent to the hotspot owners email address.

In the case where PayPal<sup>™</sup> declines the transaction then the user is informed of the reason. The hotspot owner can also optionally have a message sent with information about the declined transaction.

In order to set up credit card payments the GIS customer (hotspot owner) must go to the PayPal<sup>™</sup> website and open a PayPal<sup>™</sup> Business account then obtain the API credentials. There is no cost to open a business account but PayPal will charge a commission on every transaction. The PayPal<sup>™</sup> screen that is used to create a PayPal<sup>™</sup> business account is shown on the next page.





To create an API signature with your PayPal Business account:

- Log in to PayPal, then click Profile under My Account.
- Click My selling tools.
- Click API Access.
- Click Request API Credentials.
- Check Request API signature and click Agree and Submit.

A hotspot owner name and email address must be configured for PayPal credit card billing to work. <u>The email must be configured and tested</u> via the Email setup page before the PayPal<sup>™</sup> credit card processing is configured.

G side on	14 A	1. In	6 A ( 0
Chedleta		_	
	St Internet Solut		Internet Hotspot Gateway GIS-R4 Connected to the internet. YES
etup Wizard #		Email S	Setup
natus Bysteri information Connected Jaars Diage reports Billing reports	Normal from the Bath Positioning Wenting in enable	put stan payn	Alon of the histopol, emails are well and made by create and, when in mobile alone have been requested
lanagement Ministe cores	Provided by ISP (ag out, bellowith net)		
Hotspot availability Change passworth	SMTP Server Port: (Linuxly 25) Hotspot owner name:	25	
Rebort system dvanced bettings #	Hotapot owner email	-	
Login settings Login twissages Gisdit Card / PayNa		roal extraga (	
Disclaimenteit Titte zone	Send Test Gmail: Check	SMTP auror at	so connectivity
Email setaj Content Mer	Send to Email address:	1	
Dynamic DNS Bandwidth control	Update and	send test arread	1
Network Interfaces Firevall	and Calman	its this turbpot	paro enall service that you can use Il your ISP does not give you a free
fort forwarding tentorites / alertino	ETT DE SOU	MTP server Se	nally open we account with them and : Non.com in the SMTP Server field

Go to the email setup menu page first before continuing with the billing setup

**PayPal<sup>™</sup> website** 

introductory page



#### PayPal<sup>™</sup> credit card billing setup page

Check the box shown to enable PayPal<sup>™</sup> payments via credit card

	st Internet Sol				t Hotspot Gatew GIS-R	5+
WI-F	HOTSPOTS MAD				ected to the Internet: 1	YES
Setup Wizard ¥	Credit	Card ar	nd Pay	Pal Paym	ents	2
Status System information Connected users Usage reports	PayPal can be used to o pay with their PayPal ac need a PayPal account	count or a cr to use a cred	edit card, it card.	users do not	PayPal	
Billing reports Management	In order to set up credit account and obtain som account but PayPal will	e API creden	cials. The	ere is no cost to	open a business	
Manage codes Hotspot availability	Click to open a PayPat	Business ac	count and	I see transactio	n charges.	
Change password Reboot system	To create an API signat	na selimas	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Advanced Settings Login settings Login messages Credit Card / PayPal	<ol> <li>Log in to PayPal,</li> <li>Click My selling 1</li> <li>Click API Access</li> <li>Click Request AF</li> <li>Check Request A</li> </ol>	tools. PI Credential	<b>S</b> .			
Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control	A hotspot owner name, want to receive custome <u>setup</u> page. Customer o Enable PayPal payment	er and payme details are no s: □	nt details t stored o	, please set this n this device.	up via the <u>Email</u>	
Network interfaces Firewall	PayPal Business acco	unt and API	settings	Provided by P	ayPal	
Port forwarding	PayPal API Username:					
Monitoring / alerting Hostname Allowed IP list	PayPal API Password: PayPal API Signature:					
Allowed MAC list Blocked MAC list	Payment settings:	Time:	•	Cost: \$0.	and the second se	
Printer Setup	Select the times	Time:		Cost: \$ 0.		
Upgrade firmware	and costs to offer	Time:		Cost: \$ 0.	and the second se	
Backup & restore	to customers	Time:		Cost: \$ 0.		
	All payments in	Time:		Cost: \$ 0.		
	US Dollars (USD)	Time:			00	
	A magint and	Time:		Cost: \$ 0.		
	A receipt and login code will	Time:		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	00	
	be emailed to the	Time:		Cost: \$ 0.	00	
	customer after login	Time:	۲	Cost: \$ D.	00	
	Type of code: Created after payment	Single user	Multi	user codes can	be shared	

When the PayPay<sup>M</sup> business account has been authorized then it is necessary to obtain three account parameters to copy to the boxes shown previously.

- PayPal<sup>™</sup> API Username
- PayPal<sup>™</sup> API Password
- PayPal<sup>™</sup> API Signature

The next step is to enter up to ten time/cost parameters using the drop down menu. These are the Internet access packages that will be officer to users. The example shown on the previous page has six options that users can select. The boxes below the payment settings are the messages shown on the users computer screen to indicate success or failure of the purchase.



be emailed to the	Credit Card and PayPal Pay × Time: Cost: \$ 0,00	î
customer after login	Time: Cost: S 0.00	
Type of code: Created after payme	nt Single user Multi user codes can be shared	ġ.
Purchase Prompt: (HTML may be used	Purchase token with PayPal™	
Purchase Message To help with paymer (HTML may be used)	Credit Card or a PavPalStrade:	* •
Cancel Message: (HTML may be used	The purchase has been cancelled, you have not been billed.	÷
Double Bill Messag (HTML may be used		-
Success Message: (HTML may be used		* *
Login Message: (HTML may be used	Log in using code	
Cust Email Subject	Confirmation of Hotspot payment using PayPal	
Customer Email: %c = Code %v = Value %i = Transaction ID %d = Date	Thank you for using our hotspot. Your login code is: %c Details of payment:	*
700 - 2010	Value: Bv	*
Owner Email Subje	ct: Confirmation of Hotspot payment using PayPal	
Owner Email: %c = Code %v = Value %i = Transaction ID %n = Customer Nan %e = Customer Ema %d = Date %h = Hotspot ID		*
Receive Error Emails	s: 🔲 With details of transaction & payment issu	ves
Email settin	gs must be updated before emails can be delive	red
WARNING: All h	otspot users will be logged out when settings are cl	hanged
	Change settings	
The PayPal name and the Pa	ayPal logo are registered trademarks of PayPal, Inc	

Six boxes shown on the screen above have the messages that are sent to the purchasers email address, and also to the hotspot owners email address. The parameters included in the respective emails are shown.

These messages can be translated to other languages, or elaborated. It would be unwise however to change the meaning of these messages.

Two message boxes at the bottom of the page show the format of the messages sent to the customer (hotspot user) and to the hotspot owner (merchant). Take care if changing these messages.



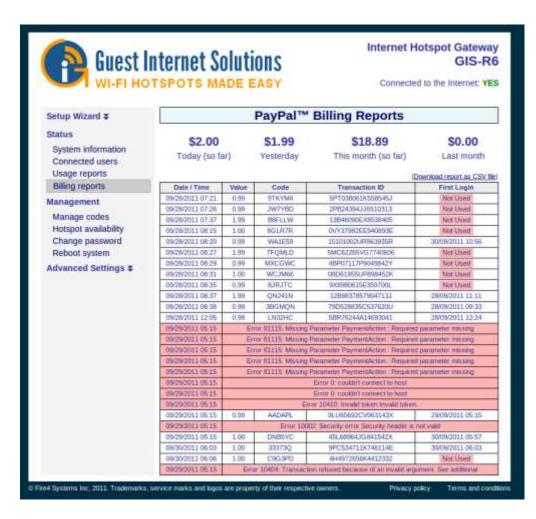
PayPal<sup>™</sup> credit card billing setup page (continuation)



There is a final check box called 'receive error emails'. When a transaction does not complete then it is not necessary to receive a message about this in most cases. However the hotspot owner might wish to be notified when an error condition occurs, for example if the credit card is declined. The purchaser will also receive an email notification.

Once in operation, the hotspot billing system will be the 'PoS' of a business, such as an Internet café. The hotspot owner will wish to produce accounts of the daily operations. A complete transaction record is provided by the PayPal<sup>TM</sup> business account, and the information can be downloaded and imported into popular accounting programs such as Quickbooks<sup>TM</sup>.

The GIS gateway also stores a report summary, described earlier in the section: Status Functions: Billing Reports. An example of a billing report is shown on the following page. This report can be downloaded in CSV (comma separated value) format and loaded into a spreadsheet program such as Excel<sup>™</sup>.



#### Credit card billing report page

A summary of transactions for the current day, previous day, current month and previous month are presented at the top of the page.

The table rows itemize each transaction. The transaction ID code refers to the code generated by the PayPal<sup>TM</sup> business account. The transaction ID permits the PayPal<sup>TM</sup> record to be located.

No credit card information is stored on the GIS gateway to comply with the Payment Card Industry Data Security Standards (PCI DSS) requirements.





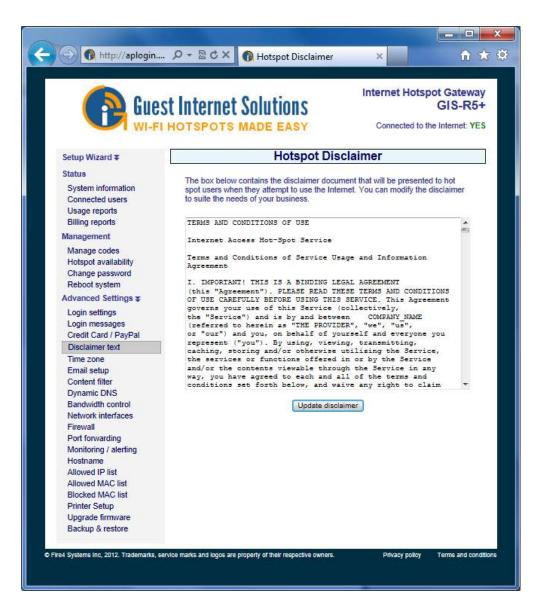
# 40: Advanced Settings: Edit Disclaimer

**Change Disclaimer menu** 

When the guest connects to the Internet service he or she has to agree to the terms and conditions of use before being permitted to access the Internet.

The terms and conditions of use is a document contained within the Guest Internet unit that was drafted by a legal team to remove liability from the Internet service provider in the case that the guest is using the network for illegal purposes, such as downloading copyrighted material. The disclaimer is based on Federal laws, however each state, county and municipality can also draft laws regarding the use of the Internet. Customers outside the United States may require a completely different document.

By clicking on the **Disclaimer text** menu option an editing window opens that permits any part of the disclaimer document to me modified. The company name has already been set to the name of your business entered during the wizard setup process. Additional clauses can also be added to the document.



If you have any concerns about liability issues in your area, then please consult a specialized attorney who will help you to modify the disclaimer document, or draft a new one.



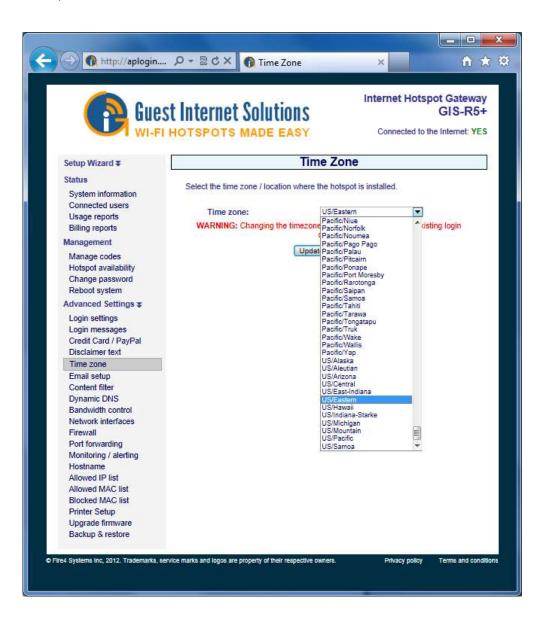


# 41: Advanced Settings: Time Zone

Set time zone menu

The correct time zone is selected during the setup wizard. However if the gateway is moved to a different location then the time zone can be changed.

A drop down menu is used to select the correct time zone.



Click on the correct time zone in the list to set the gateway time zone.





# 42: Advanced Settings: Email Settings

Set email menu

Gateway features that require email transmission include device monitoring and credit card billing. The **Email settings** page must be configured before the email features can be used. The settings that are configured are:

SMTP server name SMTP server port number SMTP username (usually not required) SMTP password Use SSL encryption (yes/no) Hotspot owner name Hotspot owner email

	St Internet Solut	ions	Connected to the Internet: YE
Setup Wizard ∓	Ţ	Email Setup	
Status System information Connected users Usage reports	Email setup is not necessa sent from the hotspot when monitoring/alerting is enabl	payment are made by cre	
Billing reports Management	SMTP Server: Provided by ISP (eg mail.bellsouth.net)	[	1
Manage codes Hotspot availability Change password	SMTP Server Port: SMTP Username:	25 (Usually 25)	
Reboot system Advanced Settings ¥	(Usually not required) SMTP Password:		1
Login settings Login messages Credit Card / PayPal	(Usually not required) Use SSL Encryption: Hotspot owner name:	(Usually not required	<b>i)</b>
Disclaimer text Time zone Email setup	Will appear in emails Hotspot owner email: Valid email address	1	]
Content filter Dynamic DNS Bandwidth control Network interfaces	Update e Send Test Email: Check :	mail settings SMTP server and connect	ivity
Firewall Port forwarding Monitoring / alerting Hostname	Send to Email address:	send test email	
Allowed IP list Allowed IP List Blocked MAC list Printer Setup Upgrade firmware Backup & restore	SITTER STORE	vith this hotspot if your ISP	
	Google's email service (Gn gateway. To use Gmail you smtp.gmail.com, the SMT and Password and select	will need a Gmail account P Server Port to 587, pro	

The email test feature should be used to verify that the SMTP server will transmit the email. When it is not possible to use the SMTP server of the Hotspot owner's email account, or use a Gmail account then the services of SMTP2go can be use to send them email. SMTP2go is an economical service that permits transmission of email messages from any location.





# 43: Advanced Settings: Content Filter

*Web content filtering* is available on GIS gateway and wireless products. Content filtering ensures that Internet surfing is family friendly. Any attempt to access sites that have undesirable content (e.g. adult sites) for viewing in public places such as hotel lobbies, libraries or schools is blocked; providing the web sites are being viewed using domain names rather than IP addresses.

Guest Internet Solutions partners with a 3<sup>rd</sup> party content filtering service, *OpenDNS*, who maintains a current list of web sites to block. *OpenDNS* has three types of accounts. A summary of the *OpenDNS* features with each type of account is shown on the following page.

- BASIC: free account
- DELUXE: \$9.95/year for households, \$5/user for businesses
- ENTERPRISE: \$2000/year for businesses

The difference between the BASIC and DELUXE/ENTERPRISE accounts is the depth and breadth of the content filtering. The BASIC account provides an excellent service and will ensure that no one is viewing adult content material in a public area. For schools and businesses where it is desirable to have comprehensive filtering then a DELUXE or ENTERPRISE account will provide excellent results and is well worth the small cost of the service. The DELUXE and ENTERPRISE accounts will block staff access to personal email and web sites such as Ebay and Facebook, avoiding loss of productivity.

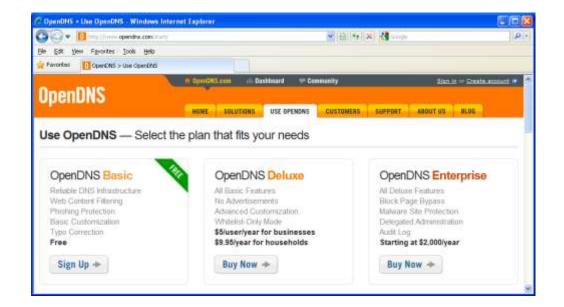
For more information please go to the OpenDNS Website:

#### http://www.opendns.com/

Before the GIS content filtering service can be used an account must be created with *OpenDNS* at the website:

#### http://www.opendns.com/start/

Select the type of account desired. A free account can be created initially and then upgraded later according to the filtering requirements. Click on 'Sign Up' for a basic account and complete the information requested on the screen;





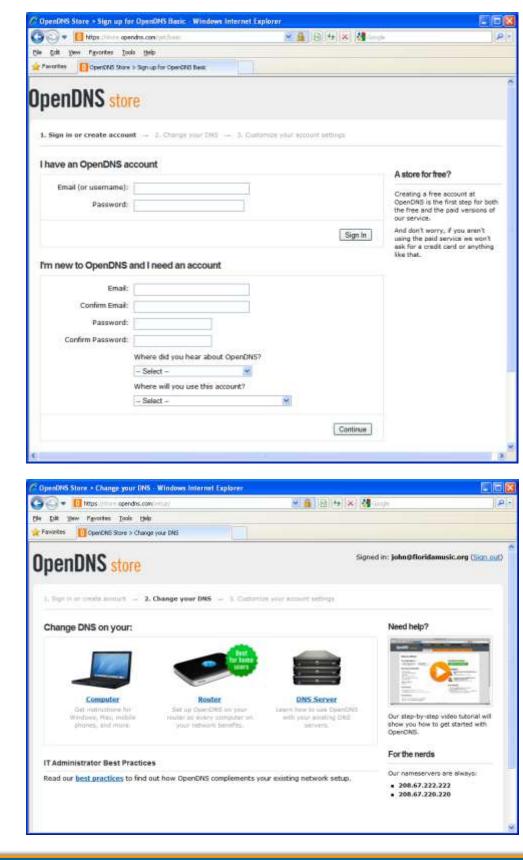
The OpenDNS Website:

registration.

select the type of account required and proceed to



Provide your email address and password. This email and password will be required by the GIS product to use your content filtering account. Select the options 'where did your hear...' and 'where will you use...' to complete the account registration process. Finally click on CONTINUE.



#### The OpenDNS account registration. Complete the information requested then click on Continue

The next page requests you to change the DNS address on your computer or router. This step is not necessary with GIS gateway products as the DNS addresses are already installed in the equipment.



You should click on 'sign out' at this point as you need to confirm your account by checking your email and then clicking on the link provided to confirm your **OpenDNS** account.

#### Account confirmation email sent by OpenDNS

**Open DNS account login** 

Thanks for registering with OpenDNS! Click this link to confirm your registration: https://www.opendns.com/dashboard/c/xxxxxxxxxxx Your OpenDNS email: xxx@yyyy.zzz -- The OpenDNS Team

Go back to the Open DNS home page at:

#### http://www.opendns.com/

Click on **sign in** (top right of screen) to see the screen shown below. Login using your email address and password.

🧟 OpenDNS > Sign in to your OpenDNS Dashboard - Windows Internet Explorer	
🚱 🕞 🔻 🚺 https://www.o 💌 🔒 🐼 🍫 🗙 🚼 Google	<b>۰</b>
Eile Edit View Favorites Iools Help	
Favorites OpenDNS > Sign in to your OpenDNS Dashboard	
Sign in to your OpenDNS Dashboard  Email (or username): Password: Keep me signed in until I sign out SIGN IN	
Forgot your password?	
Copyright © 2010 <u>OpenDNS</u>   <u>Terms of Use</u>   <u>Privacy Policy</u>   <u>Support</u>	

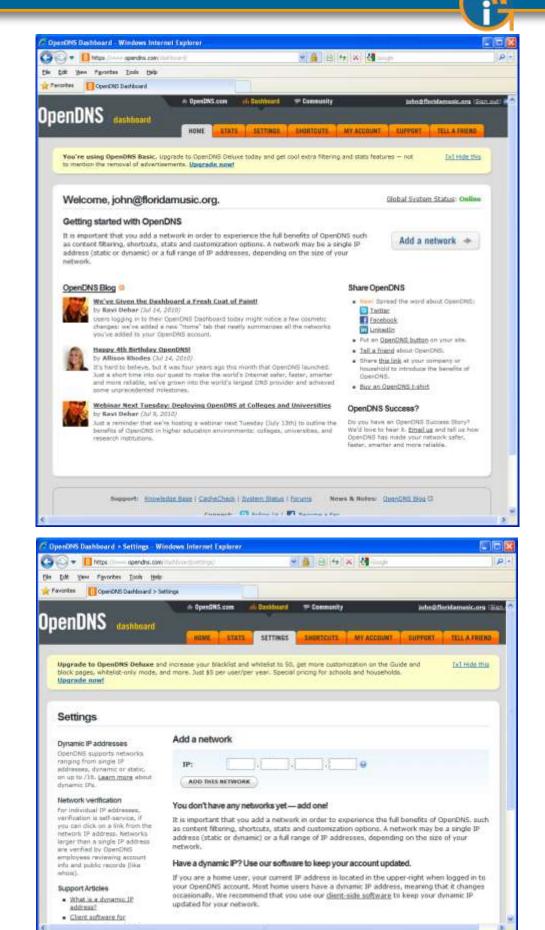
After login you will see the OpenDNS *Dashboard* home page (see overleaf). Information must now be provided to begin using the OpenDNS content filtering service.



# Open DNS *dashboard* home page

Click on the link 'Add a network'; you will see the IP address of your network.

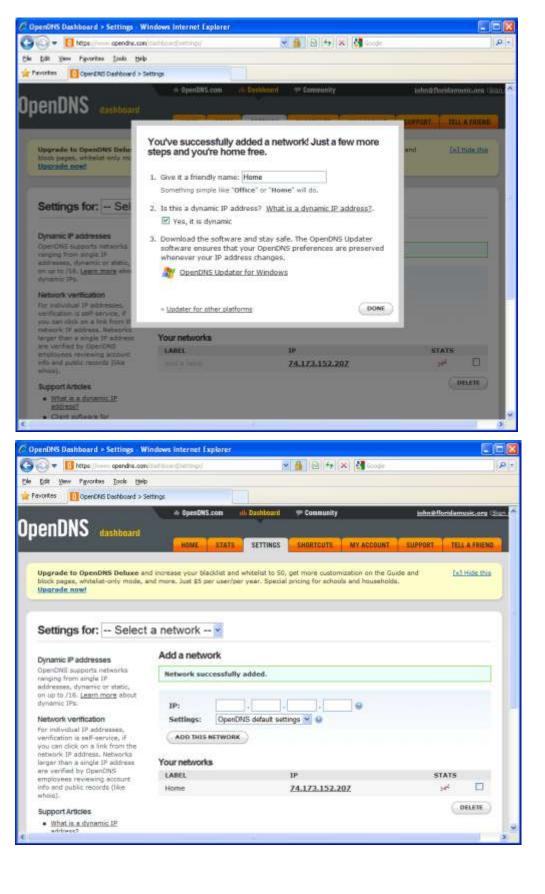
Your network IP address must be added to you're your OpenDNS account as OpenDNS will filter all traffic from this IP address.







Next you will see a page showing your IP address, click on this as it is a link to the configuration page.



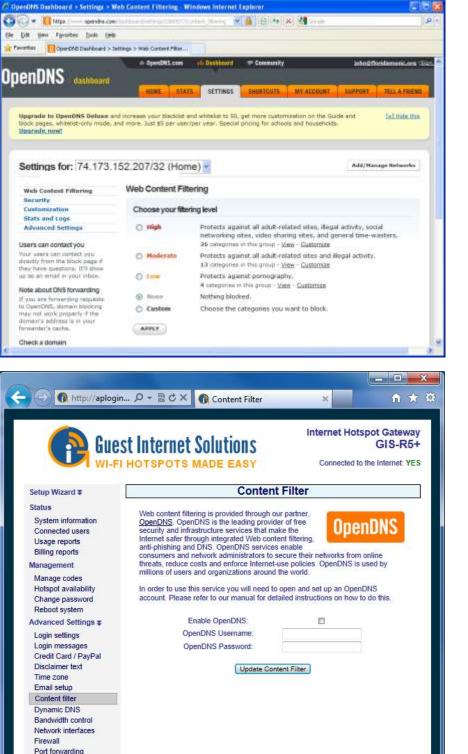


Next you have to select your content filtering level: you will see that content filtering is not active until you make your selection. Make your selection, high, moderate, low, depending on the level of content filtering you require. Finally click on the APPLY button.

One final step remains. You must now login to the GIS product as ADMIN and select content filtering in the menu. The page you will see is shown here. Check the box to enable OpenDNS then enter your OpenDNS username and password. Finally click the 'Update content filter' button.

4 Systems Inc, 2012. Trademarks, service marks and logos are property of their respective o

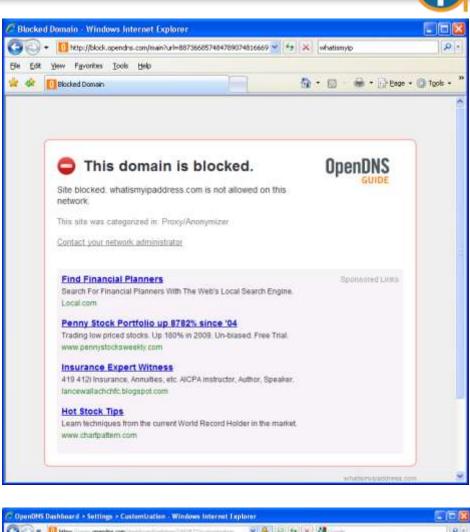
Monitoring / alerting Hostname Allowed IP list Allowed MAC list Blocked MAC list Printer Setup Upgrade firmware Backup & restore

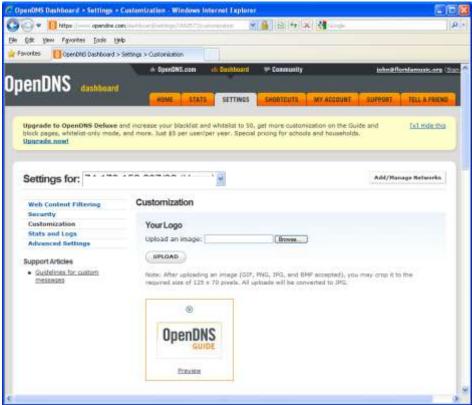




# Any attempt to access a blocked site will give the page shown here.

There is a configuration step that makes your content filter look professional. You can upload your business logo to the OpenDNS page shown above to personalize it for your users and guests. Click on the `customization message shown and upload your business logo.

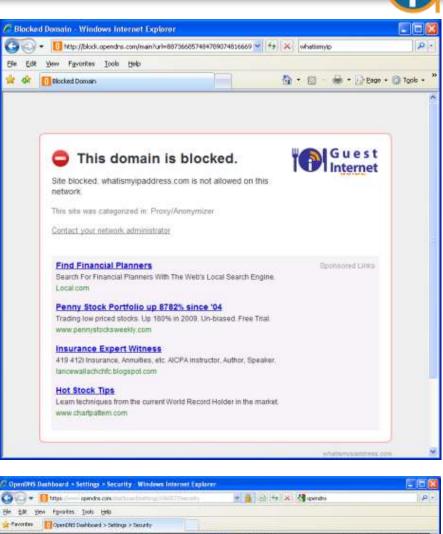


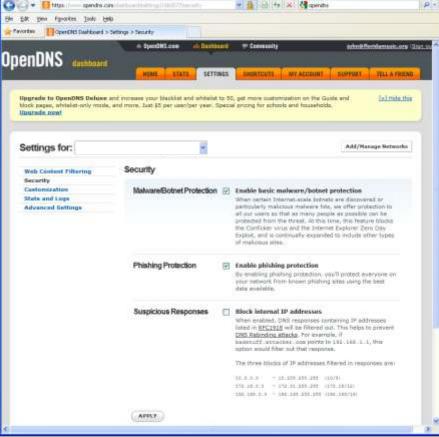




After customization your guests and users will see the page shown when they try to see blocked web sites.

Finally, you can complete your OpenDNS account information. Select the menu options SETTINGS as shown. Some settings have already been entered. Select the menu options on the left side of the screen to complete the remaining settings.

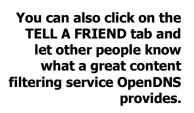






Next click on the MY ACCOUNT tab to enter your account information.

	s Internet Explorer		
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Edit Yew Favorites Look	Reb		
avarités 🚺 OpenDNS Dashboar	d		
	<ul> <li>OpenDMS.com ali Dashtnard</li> <li>rd,</li> </ul>	T Community where the	oridamusis.org (Sig:
	MOME STATE SETTINGS	SHORYCUTS MY ACCOUNT SUPPORT	TELL & FHIEND
My Account: john@	gfloridamusic.org		
Contact Info	Contact Info		
Email Settings			
Change Password	First Name	Last Name	
Change Password Time Zone	First Name	Last Name	
Change Password Time Zone Display Name			
Change Password Time Zone	First Name     	Last Name Company	
Change Password Time Zone Display Name			
Change Password Time Zone Display Name	 Title/role		
Change Password Time Zone Display Name	 Title/role Sireat		
Change Password Time Zone Display Name	 Title/role	Company	
Change Password Time Zone Display Name	 Title/role Sireat	Company	
Change Password Time Zone Display Name	Titio/role Streat City	Company Company State	
Change Password Time Zone Display Name	Titie/role Sireet City Postal Code Country - Select	Company Company State	
Change Password Time Zone Display Name	Titie/role Sireat City Postal Code Country Phone	Company Company State	
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enDNS dashboard	HOME	SETTINOS	SHORTCUTS	NY ACCOUNT	SUPPORT	TELL A FRIEND
You're using OpenDNS Basic. Upg to mention the removal of advertiser		today and get co	iol extra filtering a	nd stats features	– not	<u>Ex1 Hide this</u>
Tell your friends and co	lleagues about (	OpenDNS				
Send to:						
Enter multiple email addresses, se	varated by commas.					
counter without examples and provide 24					1	1
Criter multiple email automotes, se						
citier multiple entire automotes, se					9	6
People like to tell their friends ab			here are four ve	sions of this em	ail. Choose t	the version
People like to tell their friends ab			nere are <b>four ve</b>	sions of this em	al. Choose t	the version
People like to tell their friends ab with the topic you're most excite			nere are four ve	sions of this on	aal, Choose t	(





## 44: Advanced Settings: Dynamic DNS

The Dynamic DNS is used to access the gateway remotely when the DSL or Cable Internet service has a dynamic IP address setting. The gateway is located using the services of DynDNS (http://www.dyndns.com/).

The **Dynamic DNS** setting requires a hostname account with DynDNS. When the box is checked to enable the DynDNS agent the DynDNS hostname, username and password must be entered.

Subsequently, the DSL or cable router can be located using the hostname URL which is resolved to an IP using the DynDNS server.

🗿 Gue	st Internet Solutions	Internet Hotspot Gatewa GIS-RE
WI-F	Dynamic DN	
Setup Wizard ∓	Dynamic DN	is opuale
Status System information Connected users Usage reports Billing reports Management	Dynamic DNS is provided through our partn <u>DynDNS.com</u> . DynDNS allows you to set up like example.dyndns.org which can be use to the GIS device for remote managament a In order to use this service you will need to Please refer to our manual for instructions of	p a hostname ed to connect and monitoring. open and set up a DynDNS account.
Manage codes		
Hotspot availability	Enable DynDNS:	
Change password	DynDNS Hostname:	
Reboot system	DynDNS Username:	<u> </u>
Advanced Settings <b>\$</b>	DynDNS Password:	
Login settings Login messages Credit Card / PayPal Disclaimer text Time zone Email setup Content filter	Update DynDN	IS settings
Dynamic DNS		
Bandwidth control Network interfaces Firewall Port forwarding Monitoring / alerting Hostname Allowed IP list Allowed MAC list Biocked MAC list Printer Setup Upgrade firmware Backup & restore		

To access the gateway remotely, the DSL or Cable router must have port forwarding enabled with a port number allocated to the GIS gateway. The port number allocated may be appended to the hostname URL to access the gateway.







## 45: Advanced Settings: Bandwidth Control

Bandwidth control page

Bandwidth control is very important for a public Internet hotspot. Many users simply want to check emails, or flight times and such browser-based applications consume little bandwidth.

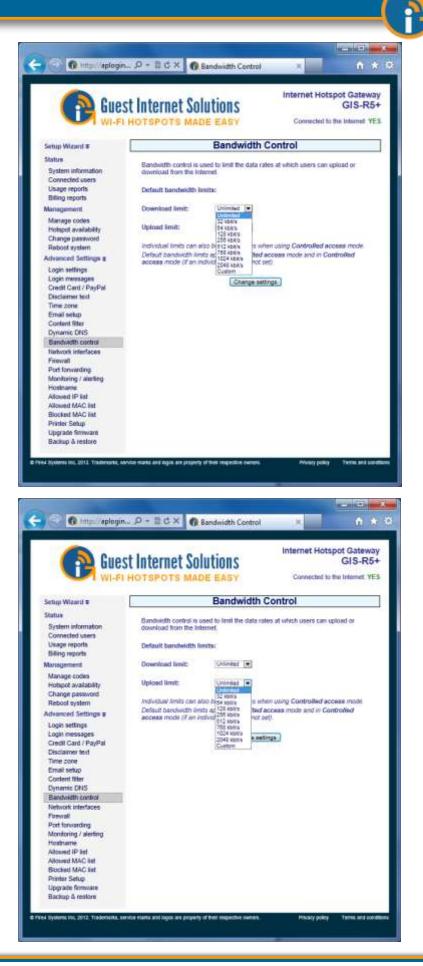
However some users have applications that require a very large Internet bandwidth: such as peer-to-peer applications, sometimes-called file sharing applications (Bittorrent, Limeware, etc.), or large file downloads (music MP3's, videos). The bandwidth control prevents users with large bandwidth applications from slowing users who have low bandwidth applications by setting a maximum download and upload speed limit. Both upload and download speed limits are required because DSL is asynchronous (ADSL): the download speed available is much faster than the upload speed. Setting a very slow upload speed (32Kb/sec) is hardly noticeable by most users, however this speed slows file-sharing applications, which try to use the maximum upload speed available.

Both download and upload speeds are set by clicking on each dropdown menu and selecting the desired speeds. When the speeds have been selected then click on Change Settings for the new speeds to take effect.

http://aplogin	D - E C X 🚯	Bandwidth Control	×	în ★
(P) Gue	st Internet Sol		Internet Hots	GIS-R5-
WI-FI	HOTSPOTS MAD			the Internet: YE
Setup Wizard ∓		Bandwidth C	Control	
Status System information Connected users	Bandwidth control is u download from the Int		es at which users can u	pload or
Usage reports Billing reports	Default bandwidth li	mits:		
Management	Download limit:	Unlimited 💌		
Manage codes Hotspot availability Change pastword	Upload limit:	Unlimited	en using Controlled acc	rase mode
Reboot system Advanced Settings <b>‡</b> Login settings	Default bandwidth lim		ccess mode and in Cor	
Login messages Credit Card / PayPal Disclaimer text		Change setti	ngs	
Time zone Email setup Content filter				
Dynamic DNS				
Bandwidth control				
Network interfaces Firewall Port forwarding				
Monitoring / alerting Hostname Allowed IP list				
Allowed MAC list Blocked MAC list				
Printer Setup Upgrade firmware Backup & restore				
e4 Systems Inc. 2012. Trademarks, s			Privacy policy	Terms and cond

If upload and download speed settings have been selected with the access codes, then those speed settings will override the bandwidth settings on this page. This permits a slow free Internet service to be provided, while a charge can be made for a fast Internet service.





Setting the download speed limit

Setting the upload speed limit





When the settings have been selected click on the update settings button.

Bandwidth usage depends on the type of data traffic that the Hotspot users are sending and receiving over the network. Contact your broadband sevice provider for additional information about data charges and limits.

AT&T have provided information about typical data consumption of their broadband network for two data plans with monthly limits of 150MB and 250MB.

#### AT&T Data Services examples of bandwidth use

Here is an example of the traffic volume for the 150GB and 250GB data plans.



Monthly Activity	150 GB	250 GB
Send/receive one page emails	10,000 emails <b>-and-</b>	10,000 emails <b>-and-</b>
Download/upload a medium resolution photo to social media site like Facebook	3,000 photos <b>-and-</b>	4,000 photos <b>-and-</b>
MP3 Songs downloaded	2,000 songs <b>-and-</b>	3,000 songs -and-
Stream a one-minute YouTube video (standard quality)	5,000 views <b>-and-</b>	5,000 views <b>-and-</b>
Watch hour-long TV Shows (high quality)	100 shows -and -	200 shows -and -
Stream full length movies (Standard Definition: SD; High Definition: HD)	20 SD or 10 HD movies	25 SD or 13 HD movies

Usage examples are estimates based on typical file sizes and/or duration of file transfer or streaming event.

Copyright © AT&T, 2011. Read more at: http://www.att.com/esupport/article.jsp?sid=KB409045&cv=102#fbid=BVv0KUnCEFI





## 46: Advanced Settings: Network Interfaces

Network Interface Menu Page showing the WAN tab. Most network designs follow simple rules: the Internet router is a 'DHCP server' and all computers are 'DHCP clients'. Some networks however require special configurations. A T1 internet connection may require that all computers and network devices be configured with 'fixed IP addresses'. The **Network Interfaces** menu option is selected to change the device configuration for non-standard networks.

When configuring the Guest Internet product for a non-standard network configuration, the help of a network specialist may be required, as there are many configuration options. One mistake may prevent the Guest Internet product from functioning correctly. In the worst case a configuration mistake might prevent you from communicating with the Guest Internet products and you will be locked out. In this case the only course of action is to reset factory defaults and start again. If you are locked out then go to the later section of this manual.

Open the **network interfaces** page by clicking in the Network Interfaces menu line. The network interfaces page is shown below. This page may have opened during the wizard set up process if the Guest Internet unit had to be configured with a fixed IP address.

Gue Gue	st Internet Solutions Internet Hotspot Gatewa GIS-R5
Setup Wizard ¥	I HOTSPOTS MADE EASY Connected to the Internet: YE Network Interface Setup
Status System information Connected users Usage reports Billing reports	Change these settings to alter the network interfaces. Choose the interface to change from the list below. The icons and and indicate whether the interface is a wired of wireless interface. A reboot of the device will be required once the changes have been made.
Management Manage codes Hotspot availability Change password Reboot system Advanced Settings Ţ Login settings Login messages Credit Card / PayPal Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control	Use DHCP       ID: Uncheck for static         IP Address       10.1.10.57         Netmask       255.255.256.0         Gateway       10.1.10.1         Hardware       00:27:22:ed:da:bo    Update Settings
Network interfaces Firewall Port forwarding Monitoring / alerting Hostname Allowed IP list Allowed IP list Allowed MAC list Printer Setup Upgrade firmware Backup & restore	





The screen view on the previous page shows the WAN tab (Wide Area Network). These settings are for the gateway unit Internet port. The DHCP box checked for default configuration. In this case the DSL router or cable modem provides the IP address for the gateway. When the gateway is used with a T1 circuit it may require setting the unit to a fixed IP. In this case the Use DHCP box is unchecked and the three IP addresses shown must be typed in manually: IP Address, Netmask and Gateway.

Clicking the LAN tab (Local Area Network) shows the settings used for the LAN ports on the gateway. The LAN ports are always a DHCP server and provide IP addresses for devices connected to the LAN ports. Computers connected to wireless access points request an IP address from the gateway LAN ports.

	ST Internet Solut		Connected to the	GIS-R5
Setup Wizard ∓	Net	work Interface	Setup	
Status System information Connected users Usage reports Billing reports	Change these settings to alt change from the list below. 7 wired of wireless interface. A have been made.	The icons 🔍 and 🍸 in	dicate whether the in	terface is a
Management Manage codes Hotspot availability Change password Reboot system Advanced Settings <b>\$</b>	Interface settings: IP Address 192.168.96.1 Netmask 255.255.240. Hardware 02:27:22:ed.c	0 End IP	192.168.96.10 192.168.111.254	
Login settings Login messages Credit Card / PayPal Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control		Update Settings		
Network interfaces Firewall Port forwarding Monitoring / alerting Hostname Allowed IP list Allowed MAC list Blocked MAC list Printer Setup Upgrade firmware Backup & restore				

The LAN Network Interfaces configuration permits you to set parameters that will improve the service for your guests. For example you can set a limit on the number of guests that can connect to the gateway unit simultaneously. The procedure is described below.

Click on the LAN tab (network interface). You will see the IP range start and IP range end. The IP range is set for a maximum of 240 users connected (see the last digits of the IP addresses, 250 - 10 = 230). Obviously this number is higher than a DSL line can support. A good value to limit the number of guests is between 20 for a standard DSL line and 50







for a very fast DSL line. You can set the maximum number of users to 25, for example, by changing the last 3 digits of the IP range end, from 240 to 35. The number of users is determined by subtracting the IP range start from the IP range end (in this case 35 - 10 = 25 users).

When any change has been made to the network settings then click the update settings button so the changes take effect. Please consult a network specialist if you require any special network information for your gateway installation.

Products with a wireless interface (GIS-K2) have three tabs on the network Interface page:

- WLAN: the wireless interface
- WAN: the Ethernet port that connects to the Internet via the DSL router
- LAN: The Ethernet ports that are fire-walled for PoS computers

Note that the LAN interface shown for the GIS-K2 is a fire-walled switch that can be used to connect back-office and point of sale computers to protect them from hackers.

O http://aplogin.com/r	idmini/interfaces-cgi		8 5 × 5	Google -	
orites 🕜 Network Interface	Setup		<u>0</u> • © • □	1 🗰 * Bage * 1	Safety • Tgols • 🕤
		t Solution			Spot Gateway GIS-K1
Setup Wizard ¥		Network	k Interface	Setup	
Status System information Connected users Usage reports	change from t	settings to alter the he list below. The icc ss interface. A reboo been made.	ons 😪 and 🍸 in	dicate whether th	e interface is a
Management	T wian	wan 🔍 tan			
Manage codes	Interface :	attings	DUCE con	er settings:	
Hotspot availability Change password		192.168.91.1	Start IP	192.168.91.10	
Reboot system	Netmask	255 255 255 0	End IP	192.168.91.250	
Advanced Settings T	Hardware	00.02;68:60;2c;48	Lease time	86400	
Login settings Login messages Disclaimer text		lipd	ate Settings		
Time zone Email setup Content filter Dynamic DNS					
Bandwidth control Network interfaces	í				

The screen above shows the WLAN (Wireless local area network) IP settings. This interface is always a DHCP server.

The WAN (wide area network) configuration is identical to other gateway products. The WAN interface can be configured as a DHCP client, or with a fixed IP address. The LAN (local area network) IP settings are configured as a DHCP server. Care should be taken if the LAN IP address is modified: the isolating firewall is valid only for the private address ranges 192.168.x.x, 172.16.x.x and 10.x.x.x. The firewall will not function for other IP (public) address ranges if selected using this page.

Network Interface Menu Page for the GIS-K2 showing the WLAN (wireless) tab with network settings. This page is not available on gateway products (GIS-R2 to GIS-R16)





## 47: Advanced Settings: Wireless Settings (for the GIS-K1+ and K3 products only)

Wireless Settings Menu (ONLY for the GIS-K1+ and K3 products). Products that have a wireless interface (GIS-K1+, GIS-K3) also have an additional menu page for wireless settings. There are two configuration options:

- Name (SSID)
- Channel

The menu page is shown below.

Event Price Concept Internet Solutions WI-FI HOTSPOTS MADE EASY       Internet Hotspot Gateway GIS-K1         Setup Wizard 3       Wireless Interface Setup         System information Connected users Usage reports       Change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the list below. You will have to reboot this device after making any change from the li	Internet Hotspot Gateway GIS-K1         Connected to the internet YES         Setup Wizard \$         System information Connected users Usage reports         Nanage codes Hotspot availability Change bassword Rebot system         Advance Settings \$         Nange settings \$         Disclamer text Time zone Enaits         Bandwidth control	O http://aplogin.com	n/admos/southers.agi	*  8  **  3	x P Google	_
Setup Wizard \$       Wireless Interface Setup         Setup Wizard \$       Wireless Interface Setup         System information Connected users Usage reports       Change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interface. Choose the interface to change these settings to alter the wireless interface. Choose the interface to change these settings to alter the wireless interface. Choose the interface to the wireless interface to the wireless interface to the wireless	Connected to the internet YES         Setup Wizard \$         Setup Wizard \$         System information Connected users Usage reports         Manage codes Hotspot availability Change password Reboot system         Advanced Settings ₹         Login settings Content filter Dynamic DNS Bandwidt control Network interfaces         Wireless settings         Wireless settings	orites 🕜 Wireless Interfa	ce Setup	§ • Ø	• 🖾 📾 • Bage • Safety • Tgols •	
Status System information Connected users Usage reports Management Manage codes Hotspot availability Change password Reboot system Advanced Settings ₹ Login settings Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces Change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change these settings to alter the wireless interfaces. Choose the interface to change the ist below. You will have to reboot this device after making any Change password Reboot system Name (SSID) Hot Spot Update Settings Update Settings	Status       Change these settings to alter the wireless interfaces. Choose the interface to change from the list below. You will have to reboot this device after making any changes making any change codes         Management       Manage codes         Manage codes       Name (SSID)         Hotspot availability       Change these settings to alter the wireless interfaces. Choose the interface to change from the list below. You will have to reboot this device after making any changes         Manage codes       Name (SSID)         Hotspot availability       Change these settings         Advanced Settings       Channel         Login settings       Ary ●         Login settings       Update Settings         Disclaimer text       Time zone         Email setup       Content filter         Oynamic DNS       Bandwidth control         Network interfaces       Wireless settings				GIS-I	K1
System information Connected users Usage reports Management Manage codes Hotspot availability Change password Reboot system Advanced Settings ₹ Login settings Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces	System information Connected users Usage reports Management Manage codes Hotspot availability Change password Reboot system Advanced Settings ≆ Login settings Login messages Disclaimer text Time zone Email setup Content titler Dynamic DNS Bandwidth control Network interfaces	Setup Wizard ¥		Wireless Inter	face Setup	
Management     Name (SSID)     Hot Spot       Manage codes     Name (SSID)     Hot Spot       Hotspot availability     Channel     Any •       Change password     Any •     Update Settings       Advanced Settings     Update Settings       Login settings     Disclaimer text       Time zone     Email setup       Content filter     Dynamic DNS       Bandwidth control     Network interfaces	Management     Name (SID)     Hot Spot       Manage codes     Name (SID)     Hot Spot       Hotspot availability     Channel     Arry       Change password     Reboot system     Update Settings       Advanced Settings     Update Settings       Login settings     Disclaimer text       Time zone     Email setup       Content titler     Dynamic DNS       Bandwidth control     Network interfaces       Wireless settings     Image Settings	System information Connected users	change from the le changes			
Manage codes     Name (SSID)     Hot Spot       Hotspot availability     Channel     Any •       Change password     Any •       Reboot system     Update Settings       Advanced Settings     Update Settings       Login settings     Login messages       Disclaimer text     Time zone       Email setup     Content filter       Dynamic DNS     Bandwidth control       Network interfaces     Image content	Manage codes     Name (SSID)     Hot Spot        Hotspot availability     Channel     Any ●       Change password     Performance     Performance       Reboot system     Update Settings       Advanced Settings     Update Settings       Login settings     Disclaimer text       Time zone     Email setup       Content filter     Dynamic DNS       Bandwidth control     Network interfaces       Wireless settings     Email setup		X with			
Advanced Settings ¥ Login settings Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces	Advanced Settings T Login settings Login messages Disclamer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces Wireless settings	Hotspot availability Change password		Concerning the Automation of t		
Login settings Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces	Login settings Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces			Update Settings		
Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces	Login messages Disclaimer text Time zone Email setup Content filter Dynamic DNS Bandwidth control Network interfaces Wireless settings					
Content filter Dynamic DNS Bandwidth control Network interfaces	Content filter Dynamic DNS Bandwidth control Network interfaces Wireless settings	Login messages Disclaimer text Time zone				
Network interfaces	Network interfaces Wireless settings	Content filter Dynamic DNS				
Wireless settings	E Inner B	Wireless settings				

The Name (SSID) (Service Set IDentifier) is the name that is broadcast by the wireless transmission. Any laptop computer within range of the transmission will detect and show the SSID of the K1+ and K3 units.

The channel can be selected to avoid conflict with adjacent transmitters if there is more then one hotspot at a location. It will be necessary to use laptop identification software, such as NETSTUMBLER to identify the channel number of adjacent transmissions.





## 48: Advanced Settings: WAN Settings (GIS-R10 to GIS-R20 only)

The GIS-R10 and GIS-R20 products have dual port WAN interfaces. Two WAN connections permit these products to balance loads over two Internet backhaul circuits to increase the throughput and permit more users to be connected simultaneously. In addition the dual WAN has a fail-over feature: when one of the WAN backhaul circuits fails then all traffic is routed through the functional circuit.

The WAN settings page shows two WAN circuits. Each circuit can be configured independently as a DHCP client, or with a static IP address.

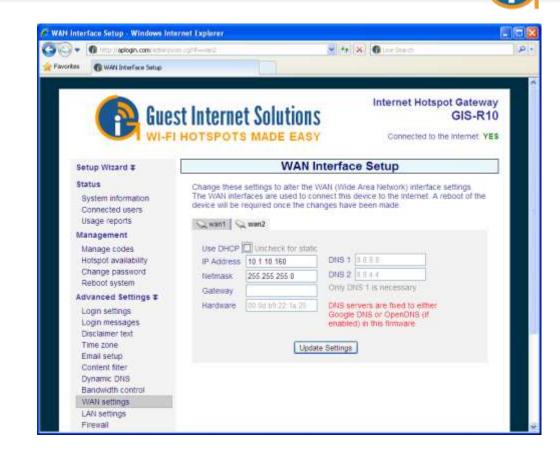
Note that both WAN circuits are configured by default to have the same DNS address, in this case the Google public DNS servers are installed. It is necessary to have identical DNS server address for both backhaul circuits to avoid DNS problems with client computers.

The respective configuration pages are shown below.









The GIS-R10 and R20 can have the WAN ports configured for either dual WAN or single WAN. The default is dual-WAN. When the configuration is changed from dual to single WAN the WAN2 port becomes a LAN port.

GIS-R10/20 WAN2 Configuration





49: Advanced Settings: LAN Settings (GIS-R10 to GIS-R20 only)

GIS-R10 LAN1

Configuration

The GIS-R10 and GIS-R20 products have dual port WAN interfaces. Two WAN connections permit these products to balance loads over two Internet backhaul circuits to increase the throughput and permit more users to be connected simultaneously. In addition the dual WAN has a fail-over feature: when one of the WAN backhaul circuits fails then all traffic is routed through the functional circuit.

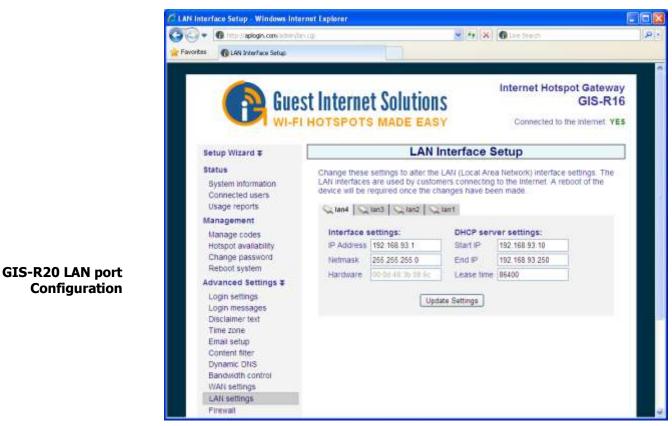
The LAN settings differ between the two models. The GIS-R10 has a single Ethernet port that can be configured for any IP address range. The GIS-R20 has three Ethernet ports that can be configured independently for applications where multiple isolated subnets are required.

The respective configuration pages are shown below.

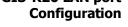


When the GIS-R10 WAN configuration is changed from dual to single then the WAN2 port becomes the LAN1 port1, and LAN1 changes to LAN2.





The GIS-20 has three LAN ports in the default settings. If the WAN ports are reconfigured from dual to single WAN then the GIS-R20 has four WAN ports.







## 50: Advanced Settings: Firewall

The gateway has a firewall that provides four features: remote management, blocking private IP address ranges, blocking of virus DoS attacks, and blocking of peer-2-peer file sharing.

The first feature permits administrator login access via the Internet port to allow remote management of the gateway by opening the HTTP/HTTPS port. By clicking the box to activate Internet port access the admin login is available on the Internet port by typing a fixed IP address into the browser. The gateway can be administered from anywhere on the Internet providing that the business network has a fixed IP address and the business router has port forwarding. Port forwarding is required from a device that owns the public facing IP address to a device that has a private (NAT) IP address. If the GIS device gets a public IP then no port forwarding is required, if it gets an IP address in the range 192.168.X.X, 172.16.X.X, or 10.X.X.X then packets need to be forwarded for TCP port 80/HTTP (and 443 for HTTPS/SSL) on the public facing device to the GIS unit.

Gan Gue	st Internet Solutions	Internet I	Hotspot Gateway GIS-R54
WI-F	HOTSPOTS MADE EASY	Connect	ed to the Internet: YE
Setup Wizard ¥	F	irewall	
Status System information Connected users	The firewall settings control remote a block guests from accessing your pr		interface and also
Usage reports Billing reports	Allow this device to be managed via the device via the WAN port. You ma router to reach the device.		
Management	Allow remote management:		
Manage codes Hotspot availability Change password	Select management port:	80	
Reboot system Advanced Settings <b>x</b>	Block the guests using this device fr connected to. This setting will stop g or router settings. All packets to priv.	uests from accessing your	company network
Login settings	and 10.0.0.0/8 will be dropped.		
Login messages Credit Card / PayPal	Block private IP ranges:		
Disclaimer text Time zone Email setup	Block guest computers from slowing attacks, Trojans, Worms or Viruses. computer could consume all the reso enabled unless you experience issu	If left unprotected a malicio ources of the gateway. Lea	us or infected ve this feature
Content filter Dynamic DNS	Block DoS attacks:	V	
Bandwidth control Network interfaces	Block guest computers from sharing BitTorrent, FastTrack (Kazaa) and G be blocked for the selected time. Pe	nutella (LimeWire). Guests	sharing files will
Port forwarding Monitoring / alerting	manually by accessing the <u>Blocked</u> the gateway reboots.		
Hostname	Block P2P file sharing:		
Allowed IP list Allowed MAC list	Select block time:	5 mins 💌 Permanent 5 mins	
Blocked MAC list Printer Setup Upgrade firmware	WARNING: All hotspot users will be		are changed
Backup & restore			







The second feature prevents public Internet users accessing business computers in the network that the Internet (WAN) port is connected to. This option is selected by default to ensure compliance with the recommendations of PCI DSS

 $https://www.pcisecuritystandards.org/security\_standards/pci\_dss\_download\_agreement.html$ 

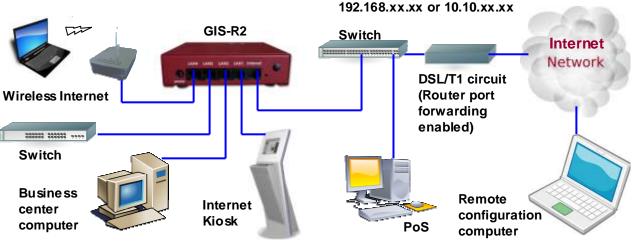
The third feature blocks any computer infected with has a software virus or Trojan that is sending out a packet stream as part of a DoS (denial of service) attack. If the computer is permitted to connect to the Internet then the service will become very slow for all users. Therefore the default setting is to block infected computers.

The fourth feature when selected blocks any computer that has active torrent file sharing software. Many businesses that offer a public Internet service subsequently receive notifications of illegal sharing of copyrighted material. The business must cease of face penalties. A hotel is venerable to legal action because the management cannot know if a guest has file sharing installed on his or her computer. By activating the P2P (peer to peer) blocking service the business can prevent any computer with P2P software from connecting to the Internet. A drop down menu permits the offending computer to be blocked for a period of time, or permanently. We recommend that permanent blocking should be selected as a malicious user who is reconnected can use an encrypted service to share files, and encrypted communications cannot be detected.

Allow remote management A computer is connected to one of the LAN ports to configure the Guest Internet gateway. Connecting a computer to the gateway Internet port and checking the Allow Remote Management box can also be used to configure the gateway. When connecting to the Internet port the Hostname URL cannot be used: The IP address of the Internet port has to be used. If remote management is used frequently then it is necessary to set the Internet port to a fixed IP address: the DHCP address configuration may cause the IP address to change when the gateway is rebooted.

The management port number must also be specified. It is usual to use port 80 (HTTP) however any port can be used.

The gateway can also be managed outside the network via the Internet by enabling port forwarding on the DSL or T1 router. It will then be necessary for the telecom provider to give a fixed IP for the network so that it can be accessed remotely, or deploy the dynamic DNS feature.



## GIS-R2 Remote Access

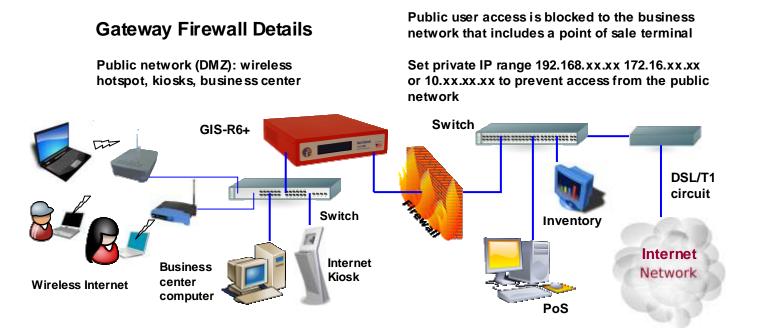
Business network: Private IP range





#### **Block private IP ranges**

The Guest Internet gateway has a firewall that is designed to protect computers connected to the Internet port network from public users connected to the gateway LAN ports. The firewall provides compliance with the PCI DSS requirements for data security. The business network is connected as shown in the diagram below.



Checking the box to block private IP ranges activates the gateway firewall. When activated the firewall 'drops' or discards all data IP packets that are sent by public users to the three private IP address ranges:

#### 192.168.xx.xx 172.16.xx.xx 10.xx.xx.xx

The firewall is effective when the business network is configured for one of the three private IP ranges listed above.

A hacker can connect to the public network, however any attempt to discover or connect to computers in the business network requires the transmission of IP packets that have the business network IP range as the destination address. Any such IP packets are not forwarded from the LAN port to the Internet WAN port and so do not reach their intended destination.

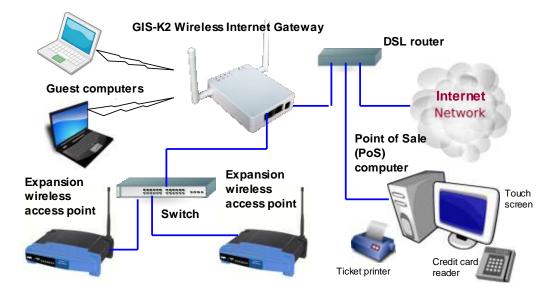
Note that full PCI DSS compliance also requires a second firewall located between the DSL router and the business network to prevent computers being hacked from the Internet.

The configuration of the firewall in the GIS-K2 product is identical to the GIS-R-series gateway products.

The Guest Internet GIS-K2 gateway default setting has a firewall configuration that is designed to protect business computers connected to the same network as the Internet port. Public users connected to the gateway LAN ports cannot access any computer or device on the WAN side of the gateway. The firewall provides compliance with full PCI DSS requirements for data security, blocking attacks from both the public wireless network and from the Internet. The business network is connected as shown in the first diagram on the following page.

The GIS-K2 permits expansion of the wireless network by adding wireless access points. This mode is compatible with non-wireless gateway products. This configuration is shown in the second diagram on the following page.





GIS-K2 LAN port extending the public network by connecting additional wireless access points. Computers connected to the same DSL circuit as the GIS-K2 are protected from hackers by the GIS-K2 firewall.





## 51: Advanced Settings: Port Forwarding

Port forwarding permits a computer on the WAN side of the gateway to connect to a device on the LAN side of the gateway. Port forwarding is very useful for remote configuration of wireless access points.

Port forwarding can be configured for up to 25 devices (up to 100 on the R10/R20). The port forwarding configuration page requires four parameters for each device.

The first field is the port number assigned for the device.

The second field is the destination IP (fixed) of the LAN side device.

The third field is the port number used to access the device (usually port 80 however most devices permit this to be changed).

The fourth field is for comments used to identify the device.

A static WAN port setting is required to access forwarded devices.

rorites 🕜 Port Forwards	ng	1	a •	🔝 - 🖾 📦 + Bage + Safety -	• Tools • 👩
		ernet Sol		Connected to the I	GIS-R2
Setup Wizard ¥			Port For	rwarding	
Status System information Connected users Usage reports	to the 1	AN OF WLAN port	s. Devices on the	e WAN port (Internet) to devices LAN or WLAN ports will require a he DHCP range allocated to the	fixed IP
Management	Port	Destination I		Comment	0122
Manage codes	4011	192.168.90.11	80	Compex access point	[X]
Hotspot availability	4012	192.168.90.12	80	Senao access point	[X]
Change password Reboot system					[X]
Advanced Settings 4	e 🔚				[X]
Login settings					[X]
Login messages					[X]
Disclaimer text					[X]
Time zone Email setup					[X]
Content filter					[X]
Dynamic DNS					[X]
				out when settings are changed	

**IMPORTANT NOTE:** 

**Port Forwarding Menu** 

Page

The LAN side device fixed IP must be in the same subnet as the LAN DHCP range, however the subnet DHCP range must be modified so that the device fixed IP's are outside the DHCP range.

Each device connected to a LAN port is addressed by:

http:// < IP of WAN port> : < assigned port number>





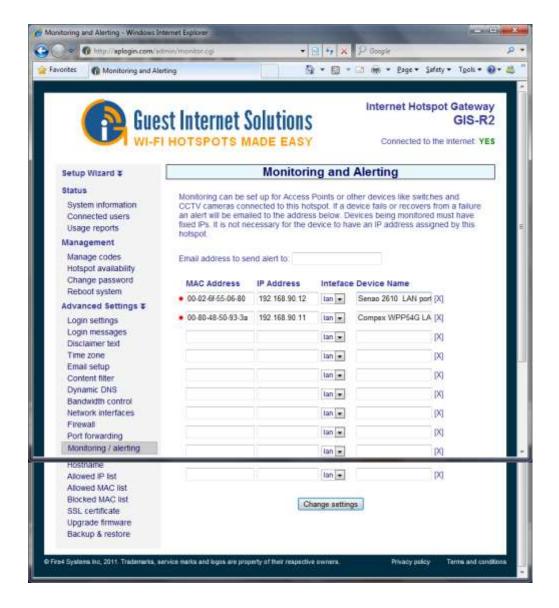
52: Advanced Settings: Monitoring / Alerting The purpose of the monitoring and alerting feature is to advise the Hotspot owner that a wireless access point or other device connected to the LAN port has failed. The GIS gateway can be set to periodically 'ping' each device in the device list. If a device does not respond then a second attempt is made to 'ping' the device. If the device does not respond after two attempts then a message is sent out using the previously configured email. The email message has a subject line and content derived from the device name entered when configuring monitoring and alerting as follows:

Subject: Compex WPP54g on the GIS-R2 is DOWN

Device 'Compex WPP54g on the GIS-R2' with MAC address '00-80-48-50-93-3a' attached to Hotspot ID 5f7d7d45 stopped responding at 2011-05-28 16:19:51 EDT

A similar message is also sent out if the device comes back on line.

The **monitoring and alerting** configuration screen is shown below.



#### Monitoring and Alerting Menu Page





	Information has to be provided for three fields, and there is also a drop down tab to select the port that the device is connected to.
MAC address	The MAC address is provided for the device Ethernet port. Not that wireless access points usually have two MAC addresses, one for the Ethernet port and one for the wireless port.
IP address	The IP address is a static address that is configured in the device for access to the administration pages. This is set to a default by each manufacturer but is programmable.
	Note that the IP address must be in the same subnet as the Ethernet port to which it is attached. However if the Ethernet port is a DHCP server then the DHCP range must be modified to ensure that no IP address can be issued which is the same as the device.
Interface selector	Select the Ethernet interface that the device will be connected to, (LAN, WAN, etc).
Device name	Type a text string that describes the device (and the location of the device if necessary). This text string will be sent via email if the device does not respond.





## 53: Advanced Settings: Hostname

The hostname is a special URL or Web address that is used by Guest Internet products for the login page and to access the configuration pages. The default hostname is:

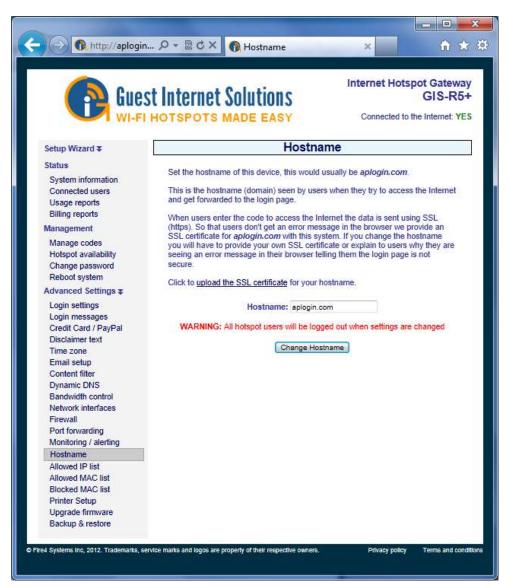
#### aplogin.com

Therefore to access the configuration pages in a browser enter the URL in the address line as:

#### http://aplogin.com/admin

The username is **admin**; the password was entered during the wizard setup.

When the Hostname menu entry is clicked the page shown below appears in the browser window.



The hostname can be changed, however the URL for the new name must be purchased and be a valid Internet URL. When the hostname has been changed click on the change hostname button. The hostname is changed only for special applications. Changing the hostname is not recommended for normal use. A valid SSL certificate must be purchased for the URL that has been purchased, and uploaded to the SSL certificate menu.







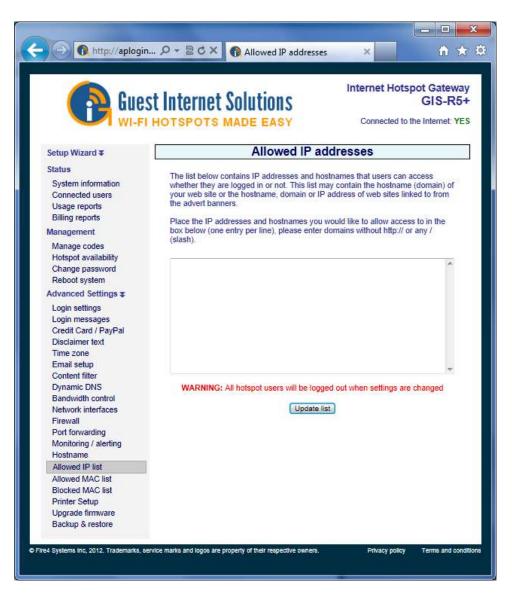
## 54: Advanced Settings: Allowed IP List

**Allowed IP Addresses** 

page

Allowed IP addresses permit your guests to access websites without completing the login page process. If you entered the address of your business Web site during the wizard setup process you will see that your website address is already included in this table. You can add other Web site addresses that you want your guests to access directly without logging in.

For example. The Guest Internet product may be installed in a hotel and the hotel charges for Internet access. If however the hotel wishes to give guests free access to airline websites then the URL's of the airlines are entered in this window. Click on the **Allowed IP addr** menu tab to see the table of allowed IP addresses shown in the figure below.



Type in the URL or IP address that you wish to allow guests to access without logging in. There is no limit to the number of IP addresses /URL's that can be entered. Finally click on update list to make the IP active.

The Allowed IP Addresses table is used to construct a 'walled garden' login page. See the Login page section for more information about creating a Walled Garden login page.





## 55: Advanced Settings: Allowed MAC List

Table of Allowed MACAddresses Meun Page

Allowed MAC addresses permit you to configure the Guest Internet unit so that specific computers can bypass the login process. These computers can be your business computers, or a laptop computer used for network maintenance.

Click on the **Allowed MAC addr** menu line and you will see the screen shown below.



The MAC address of your computer will be noted on a label with the FCC ID number. The MAC address is a sequence of six 2-digit alphanumeric codes separated by a colon. There is no limit to the number of MAC addresses that can be entered. A typical MAC address might look like this:

#### 00:2C:0D:55:A3:1E

Type the MAC address into the table and click the update list button to permit each computer to access the Internet, bypassing the login screen.





## 56: Advanced Settings: Blocked MAC List

Table of Blocked MACAddresses Menu Page

Any user can be prevented from using the Internet Hotspot by including the MAC address of that users computer on the blocked MAC address list.

A computer is blocked using the usage report page (see previous section). Select the user by access code or MAC address and click on the 'block user' button. That users computer MAC address is then included in the list below. A user might be blocked for trying to use P2P software.

The blocked MAC address screen is shown below.

Gue:	st Internet		Internet Hots	n ★ spot Gateway GIS-R5+
WI-FI	HOTSPOTS			the Internet: YES
Setup Wizard ¥		Blocked MAC ad	dresses	
Status System information Connected users		s MAC addresses of users blocks rom the list and allow them to use		Click 🛛 to
Usage reports		Blocked MAC Address	Remove	
Billing reports Management		80:C1:6E:45:07:B7		
Change password Reboot system Advanced Settings Login settings				
Login settings Login messages Credit Card / PayPal Disclaimer text				
Time zone Email setup Content filter				
Dynamic DNS Bandwidth control Network interfaces				
Firewall Port forwarding Monitoring / alerting				
Allowed IP list Allowed MAC list				
Blocked MAC list				
Printer Setup Upgrade firmware Backup & restore				

The users computer can be removed from the blocked MAC list by clocking on the remove button shown on the screen above.





## 57: Advanced Settings: Ticket Printer Setup

The ticket printer GIS-TP1 is used to print access codes for a point of sale station in Internet Cafes or for user businesses, such as a hotel concierge desk, or a trade show management desk.

The GIS-TP1 connects to the gateway LAN port via an Ethernet cable connected to a switch. The printer uses standard 58mm thermal paper widely available for point of sale terminals.

The GIS-TP1 ticket printer can be operated using a personal computer or laptop. The better solution is to use a tablet computer because the printer operation interface is designed for a touch screen display. Any type of tablet can be used: both iPAD's and Android tablets work very well. The setup cost can be minimized by using a sub \$100 Android tablet with a 7inch display.

The connection of the GIS-TP1 ticket printer is shown below.



The GIS-TP1 combined with a tablet computer makes a very convenient point of sale register for businesses such as Internet cafes. The ticket printer scripts are configurable and so the printed ticket can also server as the customers receipt.

Up to ten ticket printer buttons can be configured for the tablet display. Each button represents the duration of an access code, and can also represent the cost of the ticket. The tablet display is operated in an identical manner to any point of sale terminal. The customer requests Internet access for a specific duration, the operator touches the display button that corresponds to the Internet access that was requested. The operator can charge the customer before giving the ticket, or give the ticket without charging when the Internet is offered as a free service.

To use the GIS-TP1 ticket printer, the printer is first connected to the gateway LAN port via a switch and powered up. Next the printer is activated using the printer setup menu display, shown on the following page.



#### **Ticket Printer Setup Page**



When the configuration page is first opened the printer status will be shown as disabled. First click on the printer status enable button to enable printing via the printer. Next type the messages that will be displayed on the ticket: the business name, the ticket header text that is printed before the access code, and finally the ticket footer text which is printed below the access code. In addition a check box selects the option to print the duration of the access code.

When the printer configuration is complete click the update settings button. Note that only one printer can be connected to each gateway. The gateway is now ready to communicate with the printer, however the **codes** display must be configured to initiate ticket printing.

Ticket printing is controlled using a computer. The ticket printer screens have been designed for use with a tablet computer touch screen. Use an iPAD or Android tablet, the display can be small (e.g. 7inches) or large (e.g. 10 inches). The tablet computer is convenient to install together with a point of sale terminal.

The ticket printer screens can also be operated using a laptop or desktop computer by clicking the buttons with a mouse.





First ensure that a CODES password has bee set in the previous section: **Management Functions: Change Password.** 

Using the tablet computer, connect to the wireless access point that is connected to the gateway LAN port. When the tablet is connected then open the browser, instead of the home page, the login page will be displayed. Now type the following into the browser URL line.

#### aplogin.com/codes

A box will open requesting the username and password. The username is **codes**, the password was set previously using the **Management Functions: Change Password**.

When the login process has been completed the display will show the screen below.

	n http://aplogin  ク マ 🗟 Ċ × 🕥 Access Code Management 🛛 🟠	2
	Access Code Management	
One-	click buttons: Create and print new codes with one click	
	Add a one-click button	
	Manage one-click buttons	)
	Create / View codes	5)

Up to ten **One-click** buttons can be added to the display to control the printer. Each oneclick button initiates printing of an access code with the specific duration associated with the one-click button. Click the button 'add a one click button'. The screen shown below will be displayed.

	Acces	ss Code Ma	nagement	
Create a one-clic	k button:			
Name of button:				
Expiry Time:	30 mins 💌	User Type:	Single 💌	
Download Limit:	Default 💌	Upload Limit:	Default 💌	Create button
Manage one-clic	k buttons: Ren	nove and reorder b	uttons	
				Exit management

## Codes screen setup

**One-click button setup** 





Parameters have to be set to configure the button. The first parameter is very important as this name is what the operator will see on the display. An example is shown.

#### Name of button: 1 hour for \$5.00

The text **'1 hour for \$5.00'** will be displayed on the button. This will tell the operator that when a customer requests a 1-hour code this button should be touched, and the customer should be charged \$5.00.

The remaining button parameters can now be selected. Because the message says '1-hour' then click the expiry time drop down menu and select 1 hour. Then select user type as single, and set a download and upload limit if required. Finally click on **create button**. The button that has been created is now shown on the display, and can be seen in the example below.

	Acces	s Code Ma	nagemen	it	
Create a one-clic	k button:				
Name of button:					
Expiry Time:	30 mins 💌	User Type:			
Download Limit:	Default 💌	Upload Limit: ne-click button		•	Create button
	U	me-click button	auueu		
Manage one-clic	k buttons: Remo	ove and reorder b	uttons		
thirty-m	nins	Remove one-	click button		Move up
<u></u>				225	
				E	xit management

One-click button created

More buttons can be added with up to ten buttons maximum, for example **`1-day for \$10'**, and **`1-week for \$25'**.

Now exit the management screen to see the operators screen. The screen shown below has had three buttons created.

) () () h	tp://aplogin 🔎 🗕 🗟 C	🕈 🗙 🔞 Access Co	ode Management 🛛 🗙	- • ×
	Access	Code Manag	ement	
One-click b	uttons: Create and print	four-hours	one-day Manage one-click	buttons
			Create / Vie	ew codes
		1		NI

#### **Operators screen with** three buttons created





Click on a button to display the access code and send the code to the printer. The screen shown below will be seen.

	http://aplogin
One-cli	ck buttons: Create and print new codes with one click thirty-mins four-hours one-day Manage one-click buttons New Code: L9AH5J
No.	Create / View code

#### Access code generated by clicking the one-click buttons

Manage one-click buttons, edit or delete Buttons can be modified or deleted at any time by clicking on **manage one-click buttons**.

When this button is clicked the screen shown below is displayed.

	Acces	s Code Ma	nagement	
Create a one-clic			J	
	:K Dutton:			
Name of button: Expiry Time:	30 mins 💌	User Type:	Single	
Download Limit:	Default 💌	Upload Limit:	Default 💌	Create button
thirty-m	nins	Remove one-	click button	Move up
four-ho	ours	Remove one-	click button	Move up

The operator's display also has a button '**create/view codes'**. When this button is clicked the screen shown on the following page is displayed.



	Access	s Code Man	ageme	nt	
One-click button	s: Create and pri	nt new codes with	one click		
	thirty mine	four-hour		o dou	17
	thirty-mins	Tour-nour	S	e-day	
			(	Manage	e one-click buttons
			Mercano anti anti		
Create custom c	odes: You have	you used 18 of 10	000 codes		
Code Text:	Random 💌	Number of cod	les to create	e: 1 💌	
Expiry Time:	30 mins 💌	User Type:	Single		
Download Limit:	Default 💌	Upload Limit:	Default		Create Code:
			n an tai tai tai tai tai tai ta		0000000
Check / Delete C	odes: Codes are	automatically dele	eted 7 days	after the	y expire
	ck	Check Coo		All Cod	

A code that has been generated and given to a user can be checked to verify the time remaining for the code. Type the code in the box 'enter code to check' then click the check code button.

A custom code requires the selection of random text or custom text. If a random code is selected then select the number of codes to be printed. Select the expiry time, user type, and download / upload limits. Click the **create codes** button to generate the custom code as shown in the screen below.

One-click butto	ns: Create and prin	t new codes with o	ne click		
	thirty-mins	four-hours	one-day		
			Manag	e one-click bu	uttons
New Codes:	Code Tim	a Tree	Down	Up	
# 1 V	V284GW 30 m			default	
Check / Delete C	Codes: Codes are a	Check Code			

#### Create/view codes display

Custom code generation display





All access codes can be viewed by clicking the **view all codes** button. When this button is clicked a screen similar to the one shown below will be displayed.

			Acce	ss Co	ode Man	agen	nent		
On	e-click butt	ons: Crea	ate and p	orint nev	v codes with	one clici	k		
		thir	ty-min	S	four-hour	s (	one-da	ay	
							Man	age one-click	buttons
Cre	eate custom	codes:	You hav	e you u	sed 9 of 100	00 code	s		
-	de Text:	Rand			umber of cod	1000		•	
100	piry Time:	30 m			ser Type:	Single	- Local		
Doi	Download Limit: Defau		Default 💌 Upload Limit: Default 💌				it 🔳	Create	e Codes
	eck / Delete ter code to c		Codes a	re autor	natically dele		iys after iew All C		
			Codes a	re autor Used		be V	iew All C Up	Download	Upload
	ter code to c	heck:	Туре		Check Coo	de V	iew All C	Codes	Upload Used 0
Ent	ter code to c Code	heck: Time	Type single	Used	Check Coo	de V Down kbit/s	iew All C Up	Download Used	Used
Ent	Code to c Code 0BXH45	heck: Time 30 mins	Type single single	Used NO	Check Coo Time Left 30 mins	de V Down kbit/s	Up kbit/s	Download Used 0	Úsed 0
Ent	Code to c Code 0BXH45 0T0W1F	heck: Time 30 mins 30 mins	Type single single single	Used NO NO	Check Coo Time Left 30 mins 30 mins	de V Down kbit/s *	Up kbit/s	Download Used 0 0	Used 0 0
Ent	Code to c Code 0BXH45 0T0W1F 20EY1E	Time 30 mins 30 mins 30 mins	Type single single single single	Used NO NO NO	Check Coo Time Left 30 mins 30 mins 30 mins	de V Down kbit/s * *	Up kbit/s * *	Download Used 0 0 0	Used 0 0 0
	Code OBXH45 0T0W1F 20EY1E 4LL5DH	heck: Time 30 mins 30 mins 30 mins 2 hours	Type single single single single	Used NO NO NO	Check Coord Time Left 30 mins 30 mins 30 mins 2 hours	de V Down kbit/s * * *	Up kbit/s * *	Download Used 0 0 0 0 0	Used 0 0 0 0
	Code 0BXH45 0T0W1F 20EY1E 4LL5DH 7158TB	heck: Time 30 mins 30 mins 2 hours 30 mins	Type single single single single single	Used NO NO NO NO	Check Coo Time Left 30 mins 30 mins 2 hours 30 mins	bown kbit/s * * * *	Up kbit/s * * *	Download Used 0 0 0 0 0 0	Úsed 0 0 0 0 0
	Code OBXH45 OTOW1F 20EY1E 4LL5DH 7158TB 9F6KRE	heck: Time 30 mins 30 mins 2 hours 30 mins 2 hours 2 hours	Type single single single single single	Used NO NO NO NO NO	Check Coo Time Left 30 mins 30 mins 2 hours 30 mins 2 hours 2 hours	Down kbit/s * * * *	Up kbit/s * * * *	Download Used 0 0 0 0 0 0 0 0	Úsed 0 0 0 0 0 0 0
Ent	Code OBXH45 OTOW1F 20EY1E 4LL5DH 7158TB 9F6KRE C6KQYQ	heck: 30 mins 30 mins 30 mins 2 hours 30 mins 2 hours 30 mins 30 mins	Type single single single single single single	Used NO NO NO NO NO NO	Check Coo Time Left 30 mins 30 mins 2 hours 30 mins 2 hours 30 mins 30 mins	de V Down kbit/s * * * * * *	Up kbit/s * * * * *	Download Used 0 0 0 0 0 0 0 0 0	Úsed 0 0 0 0 0 0 0 0 0
	Code OBXH45 OTOW1F 20EY1E 4LL5DH 7158TB 9F6KRE C6KQYQ D57XCC	Time 30 mins 30 mins 30 mins 2 hours 30 mins 30 mins 30 mins 30 mins	Type single single single single single single single	Used NO NO NO NO NO NO NO	Check Coo Time Left 30 mins 30 mins 2 hours 30 mins 2 hours 30 mins 30 mins 30 mins	de V Down kbit/s * * * * *	Up kbit/s * * * * * * *	Download Used 0 0 0 0 0 0 0 0 0 0 0 0 0	Úsed 0 0 0 0 0 0 0 0 0 0 0 0 0

When the code is sent to the printer the code is printer in receipt format. The figure below shows the ticket that is printed onto the thermal paper.









## 58: Advanced Settings: Upgrade Firmware

Upgrade Firmware Menu Page The Guest Internet product firmware can be upgraded by loading the firmware file from the computer used for the upgrade process. Firmware upgrades will be announced through the Guest Internet newsletter as they become available.

Remember that each Guest Internet product has a unique firmware file. Ensure that you are downloading the correct firmware file for your product.

When the firmware file has been loaded from the computer then click on the **Upgrade Firmware** menu link. You will see the page shown below.

🗛 Gue	st Internet Solutions	Internet Hotspot Gatewa GIS-R5-
	HOTSPOTS MADE EASY	Connected to the Internet: YE
Setup Wizard ∓	Firmware Up	ograde
Status System information Connected users	To upgrade the firmware simply upload the file file using the box below.	e with the new firmware. Select the
Usage reports Billing reports	Choose upgrade file:	Browse
Management	Upgrade Firm	ware
Manage codes Hotspot availability Change password Reboot system		
Advanced Settings ¥		
Login settings Login messages Credit Card / PayPal		
Disclaimer text Time zone Email setup		
Content filter Dynamic DNS		
Bandwidth control Network interfaces		
Firewall		
Port forwarding Monitoring / alerting		
Hostname		
Allowed IP list		
Allowed MAC list		
Blocked MAC list		
Printer Setup		
Upgrade firmware		

Click on browse to find the correct upgrade file that you downloaded from the Guest Internet web site onto your computer. When the file is located, click on the file then click on the Upgrade Firmware button.

The upgrade process will take approximately 15 minutes. Do not disconnect power to the gateway during this process or the program storage memory may be corrupted.

A message will indicate when the upgrade process is complete and then the unit will reboot to work with the new firmware.





## 59: Advanced Settings: Backup and Restore

All configuration parameters that have been set on a gateway unit are stored in a file in memory. The configuration file can be downloaded to a computer and saved for backup purposes. This page also permits the configuration backup file to be uploaded into the gateway to restore a previous configuration setting.

	st Internet Solutions	Internet Hotspot Gatew GIS-R
	HOTSPOTS MADE EASY	Connected to the Internet: Y
Setup Wizard ∓	System Ba	ickup
Status System information Connected users Usage reports Billing reports	Use this page to save and restore the setting backup of the settings in case of hardware pro- necessary. You will be able to download a co computer. Store this file in a safe place. To re to this unit and reboot. The backup/restore sa login.zip file and the disclaimer text.	oblems or if a firmware restore is py of the configuration file to your store the file simply upload the file
Management Manage codes Hotspot availability	The login codes are NOT saved. Please exp Separated Values) file for backup and restore	
Change password Reboot system	Select file to restore:	Browse
Advanced Settings ¥	Restore settings	from file
Login settings Login messages Credit Card / PayPal Disclaimer text	Download settings (I	backup) file
Time zone Email setup Content filter Dynamic DNS Bandwidth control	Reset to factory defaults Use this option to restore the gateway to fact usage logs and login background images will displayed once the system has been rebooted	be erased. The setup wizard will be
Network interfaces Firewall Port forwarding Monitoring / alerting Hostname Allowed IP list Allowed IP list	Reset to factory	defaults )
Blocked MAC list Printer Setup		
Upgrade firmware		
Backup & restore		

The backup file contains the following information

- All configuration settings
- The login page zip file (if uploaded)
- The modified terms and conditions text

Configuration settings backup and restore has two important applications. The first is to save the configuration file each time that the gateway configuration is changed. If some problem occurs with a configuration change then the previous configuration can be restored. The second application is for installers who are putting many similar configured gateways in a restaurant or hotel chain. One gateway is configured for the application and then the configuration file is saved. The configuration file is restored into all other gateways to be installed at different locations, thus speeding the installation process.

This screen also has a button that can be used to reset the unit to factory defaults. The function of this button is identical to the reset button on the rear of the enclosure. After the button is clicked all settings will be erased and the unit will restart with the wizard page.





## 60: Reset the Product Configuration to Factory Defaults

It is possible to get locked out of the Guest Internet gateway product, by forgetting the password or by incorrectly changing one of the IP addresses shown on the network configuration page.

This section describes procedures to reset all product parameters to factory defaults so that the product can be accessed once more. After this procedure however the product will have to be reconfigured. Upon restart the wizard screen will appear.

Reset to defaults as follows:

- 1. Power up the gateway unit and locate the hole in the enclosure for the reset button (shown in the diagram).
- 2. Using a paper clip, push the reset button (a click will be felt) and hold down for 10 seconds, after which the factory defaults will be restored.

GIS-R3 gateway has a hole in the enclosure with the reset button behind it

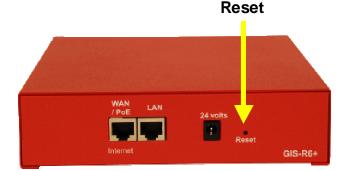


Reset



GIS-R5+ gateway has a hole in the enclosure with the reset button behind it

GIS-R6+ gateway has a hole in the enclosure with the reset button behind it





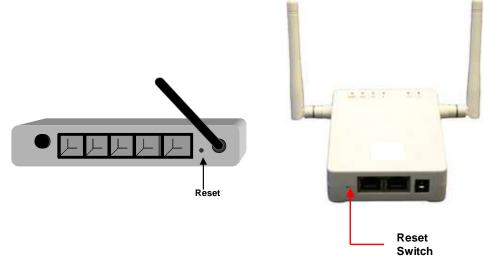




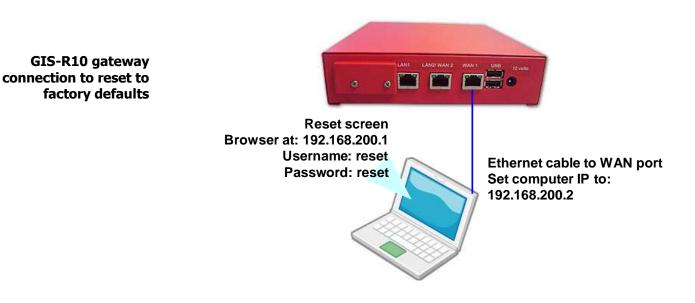
GIS-R8 gateway has a hole in the enclosure with the reset button behind it

The GIS-K1+ and K3 gateways have a hole in the enclosure as shown with the reset button

behind it

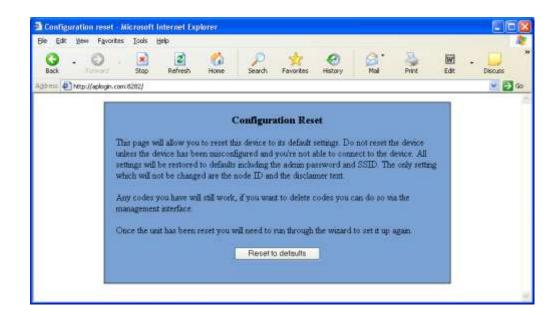


The GIS-R10 and GIS-R20 products do not have a reset button. These products are reset to the factory default configuration using a computer connected to the primary WAN port of the device. The computer Ethernet port is set to an IP of 192.168.200.2. The browser is then opened at an IP address of: 192.168.200.1.





A box will open requesting a username and password. The username is *reset* and the password is *reset*. Click on enter and the screen shown below will appear.



Click on the **Reset to defaults** button and then wait two minutes. Finally, switch the product power off then on and proceed to reconfigure the product using the wizard as described in an earlier section.



Screen

**Reset Factor Defaults** 

**GIS-R20** gateway

factory defaults

connection to reset to



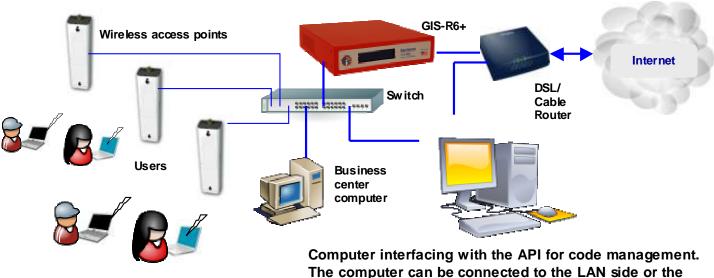
### 61: Programmers Reference: Access Code Request API for PoS and PMS Systems

#### API Implementation with the GIS-gateway

This section describes implementation of PoS access code requests using the Guest Internet firmware API

The access code request API is implemented in GIS firmware so that PoS vendors can include a screen button that prints a hotspot access code on the ticket printer for sale to guests. The access code request API is implemented in all GIS firmware versions and is available to PoS vendors and other systems integrators upon request. In order to implement the API the network configuration must be made as shown below.

The GIS firmware includes a firewall from the DMZ to the private network to ensure compliance of the PCI-DSS recommendations. The firewall prevents any DMZ public access to the private subnet, which protects sensitive information stored in PoS computers. The GIS-gateway has four LAN ports to connect DMZ devices.



WAN side (with remote access activated) of the gateway.

#### Access Code Request API Criteria:

Any computer can make an API request, however the API request must include the password for CODES (not the password for ADMIN).

A computer in the DMZ can make a request directly to the gateway. A computer in the private network can make a request <u>only after</u> the remote access box in the firewall menu has been checked.

The API has three separate functions

- Generate one or more codes (up to the limit permitted by the gateway)
- List access codes available on the gateway with status of each
- Delete codes and remove from the database





#### **Guest Internet Login** Any computer or other system capable of performing HTTP communications can control the login codes on the GIS R and K units remotely. The programmer must have the password Code API for the CODES login in order to perform API commands. The access code API has been designed to allow systems such as POS (Point-of-Sale) to automatically manage code generation, removal and testing. Hotspot administrators wishing to control codes from a web browser should not use the API, instead they should use the web user interface at http://aplogin.com/codes. Access to the API is controlled via a username and password. The username is always set to 'codes'; the password can be changed via the password page in the web management interface. There is no default password. The API is designed for programmers and systems integrators who understand HTTP communications; how to form queries and how to parse responses from a web server. A hotel or restaurant wishing to implement the GIS API on their PoS system should seek advice from the PoS supplier before deciding to use the feature: there will be some cost associated with implementing the API calls in the PoS software. Codes can be added to the system via a single HTTP call, the URL to use is: **Creating codes**

#### http://aplogin.com/codes/makecode.cgi

The IP of the GIS device can also be used instead of the hostname

Parameters to pass include:

Parameter	Values	Optional	Comments
num	Number of codes to create	no	Argument must be included in the call. The maximum number of codes is limited by the codes available on the gateway (see error messages)
time	Time in minutes	no	Argument must be included in the call.
type	Type of code: n = normal / single user m = multi-user	no	Argument must be included in the call.
download	Download limit (kbps)	Yes	Argument is optional and is not necessary for the call
upload	Upload limit (kbps)	Yes	Argument is optional and is not necessary for the call

An example call would be:

http://aplogin.com/codes/makecode.cgi?num=1&time=30&type=n

This would create a normal, single user code with a 30 minute duration.

The API call will either return a new code which is ready to use or an error; the possible errors are listed below:

ERROR: Invalid parameters ERROR: You can't create more than XX codes ERROR: Code type not valid ERROR: Code time not valid ERROR: Code upload limit not valid ERROR: Code download limit not valid

If not logged in to the device, the password should be passed as an argument:

http://codes:password@aplogin.com/codes/makecode.cgi





The programmer can provide the password with each call to ensure that the call can be completed in the event that power has been cycled on the GIS device or on the PoS.

## Deleting codes Codes can be deleted from the system via a single HTTP call, the URL to use is: http://aplogin.com/codes/deletecode.cgi

Parameters to pass include:

Parameter	Values	Optional	Comments
code	Code to be deleted	no	Argument must be included in the call.

An example call would be:

#### http://aplogin.com/codes/deletecode.cgi?code=876DTW

This would remove the code 876DTW if it exists on the system.

The API call will either return OK or an error; the possible errors are listed below:

ERROR: Invalid parameters ERROR: Code does not exist ERROR: Unable to delete code

**Viewing codes** Codes cannot be tested individually but a call can be made to list all of the codes on the system, it is then up to the software making the API call to parse the data returned and present it in the format required for the user or make any search or tests required on a code.

A list of codes can be obtained from the system via a single HTTP call, the URL to use is:

#### http://aplogin.com/codes/showcode.cgi

There are no parameters to pass for this API call.

The API call will either return a list of codes or an error message, the list of codes are presented in a tab (\t) delimited format with a header row. An example output would be:



CODE	TIME	TYPE	USED	LEFT	DOWN	UP
CODE		ITPE	USED	LEFI	DOWN	UP
113DRW	2	n	Yes	Expired	*	*
1AT1AQ	30	t	No	30	*	100
3B0AQ0	2	n	Yes	Expired	*	999
61QG8G	30	t	No	30	*	*
8CWJLE	30	n	No	30	*	*
94KH4E	30	n	No	30	*	*
ARLGH0	30	m	No	30	*	*
BJKBH7	2	n	Yes	Expired	*	*
M47TGF	32	t	No	32	*	999
WY7W0R	2	t	No	2	*	999

The \* (asterisk) in the UP and DOWN limit columns show that no limit has been set and that system wide limits will be imposed on the user.

The error message below will be returned if the clock is not set on the system, without the clock it is not possible to calculate the time remaining:

ERROR: Clock not set

#### Program Implementation

The API can be accessed with any programming language or operating system.

Use a web/http client library. Libcurl (<u>http://curl.haxx.se/libcurl/</u>) is probably one of the best open source ones. Essentially you just need a web client to make an HTTP request to the web server on the GIS-gateway. The response will come as plain ASCII and can be parsed in any number of ways.

If you want a secure connection then you will need a library capable of HTTPS as well as an SSL library like openSSL, otherwise HTTP will work.

Here is a simple example in C using libcurl:

http://curl.haxx.se/libcurl/c/simple.html





# 62. LINUX Distribution

All Guest Internet products use the Linux operating system, as part of the software suite included with each product. The Linux operating system is distributed under the GNU (General Public License). Guest Internet Solutions and its parent company Fire4 Systems Inc. abides by all the terms of the GNU. The Linux distribution installed in Guest Internet products is available on a CD. Customers can request a copy of the Linux distribution CD and will be charged \$10 for packing and postage of the CD. For more information, please call 1-800-213-0106.

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