

STAR-12 pre-configured point of sale (PoS) with WiFi Internet management, for a cyber café.

STAR-12: Cyber café WiFi Internet point-of-sale (PoS) kit

You provide the ISP Internet service, and use Guest Internet STAR-12 kit to sell the Internet service at your cyber cafe.

STAR-12 is a kit to sell WiFi Internet access for wired computers and for mobile devices in your cyber café business.



Kit Contents:

GIS-K1 Internet controller
GIS-TP1 receipt and access code printer
Ethernet cables
Free cloud account access
Installation instructions
Customers provides the tablet and optional cash drawer.

- Sell an Internet service to cyber café customers using Guest Internet to manage the ISP service.
- Everything you need in one kit to start selling your Internet service to customers using your ISP service or Starlink antenna.
- Easy self-install and management of the Internet service, you do not depend on others.
- Full installation instructions included.
- Multi-language: English and Spanish.
- Print vouchers with access codes to give people access: duration, data speed and data limits.
- Monitor users of the Internet service.
- Monitor the service for failures: get alerts.
- Protection from abuse of the Internet service; prevents unauthorized Internet access.
- No other fees, maintenance, license, software, services or contracts.
- Free support, free upgrades.
- Free cloud service; manage the Internet from anywhere.
- Branding is easy to customize your Internet service.

The Internet service is not included with the kit.

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For more information contact: support@guest-internet.com

Introduction: how to provide a cyber cafe Internet service

Anyone wishing to provide an Internet service for a cyber cafe requires some technical knowledge to install the infrastructure that will connect the Internet service. Guest Internet makes this easy by providing kits with the parts required and detailed instructions to install and configure the equipment.

Customers who want to connect to the Internet service will use a wireless technology called WiFi. A WiFi network must be installed to deliver the WiFi service to the community members.

If the reader wants to read more and get a deeper understanding of the process to deliver WiFi Internet to users, we have two free e-books that can be downloaded using these links. The links are also on our website.

How to sell Internet mobile broadband:

[https://guest-internet.com/pdfs/How to sell Internet mobile broadband \(ENGLISH\) - J Barker.pdf](https://guest-internet.com/pdfs/How to sell Internet mobile broadband (ENGLISH) - J Barker.pdf)

How to start a WISP business:

[https://guest-internet.com/pdfs/How to start and build a WISP \(ENGLISH\) - J Barker 2022.pdf](https://guest-internet.com/pdfs/How to start and build a WISP (ENGLISH) - J Barker 2022.pdf)

There are two types of Internet customers;

- People who walk into the cyber café to use a computer that is connected to the Internet.
- Mobile broadband: people with mobile devices who connect to a WiFi Hotspot antenna to get Internet access. Installing an outdoor wireless access point antenna permits mobile users within 100m of the Hotspot antenna to have Internet access.

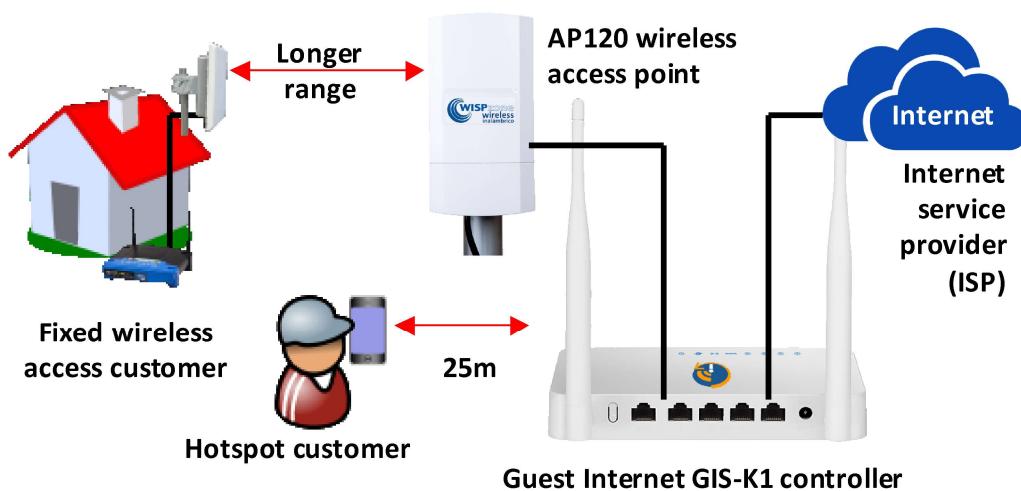
The network infrastructure that will provide the Internet service for Internet café customers has four parts.

- The Internet service provider. This is the Internet connection that is shared with community members and can use any of the following technologies; ADSL, cable, fiber, wireless point-to-point, geo-stationary satellite, or low earth orbit (LEO) satellite. The Starlink Internet service uses LEO satellites. Ensure that the sharing of the service with the community is within the terms and conditions of the ISP.
- User controller. This is the Guest Internet controller that will manage the access to the Internet service so that many people can share one Internet connection. Use the Guest Internet product to print vouchers where each voucher has a unique access code with parameters of duration of access, maximum upload and download data speeds, maximum upload and download data limits, and the number of people who can use the code, usually 1. The Guest Internet controller shares the Internet service so that a problem called network congestion is avoided, and also ensures that the ISP data volume limits are not exceeded.
- Point to multi-point (PtMP) wireless access point (AP120). This wireless product broadcasts the Internet access as a WiFi wireless signal. Community members who want to get access to the Internet have to connect to this antenna. This

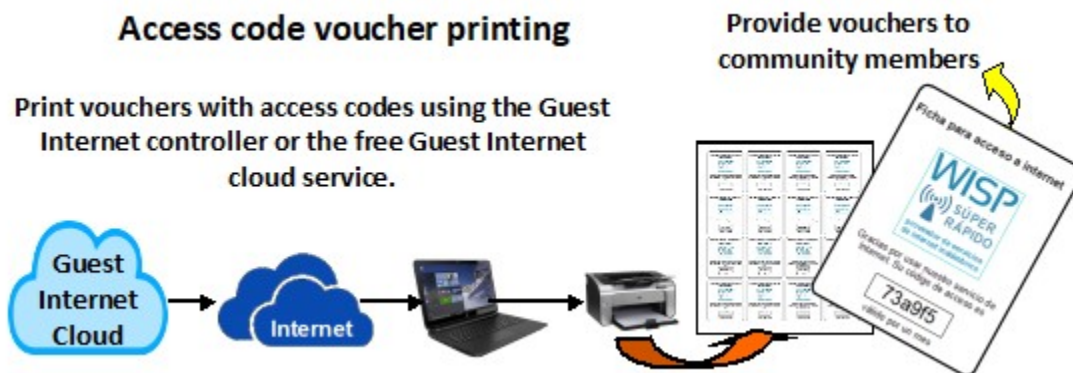
antenna must be visible for any person wishing to connect to it; the connection is called line-of-sight. Any obstruction such as a building or tree will block the signal. Community members with mobile devices can connect to this antenna by selecting the WiFi name. The maximum distance of the connection to a mobile device might be in the range of 100m to 200m.

- Homes are connected with wireless equipment that gives a much longer communication distance. A wireless receiver (called a client premise equipment – CPE) is installed on the roof of the home and points to the PtMP antenna. The PtMP antenna must be visible from the location of the CPE antenna. The distance from the CPE antenna to the PtMP antenna can exceed 1Hm. The CPE antenna connects to a wireless router inside the home and residents connect to the wireless router using WiFi to get access to the Internet.

The network equipment described above is shown in the next diagram. All community Internet services that connect people using WiFi have this design.

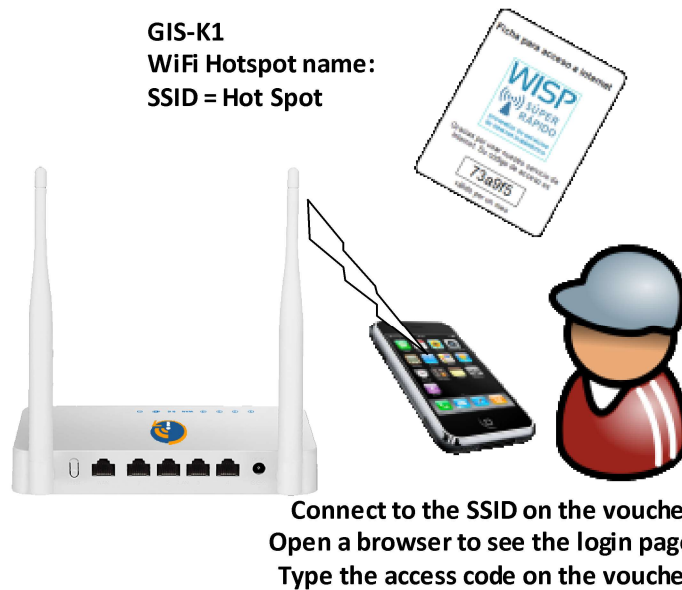


A community member who wishes to access the Internet must request or purchase a voucher that has an access code. The person who manages the Internet service prints the vouchers. The voucher is designed using the Guest Internet controller or cloud service and can include a logo plus text. Vouchers are printed on any letter printer. The process of printing vouchers is shown in the next diagram.

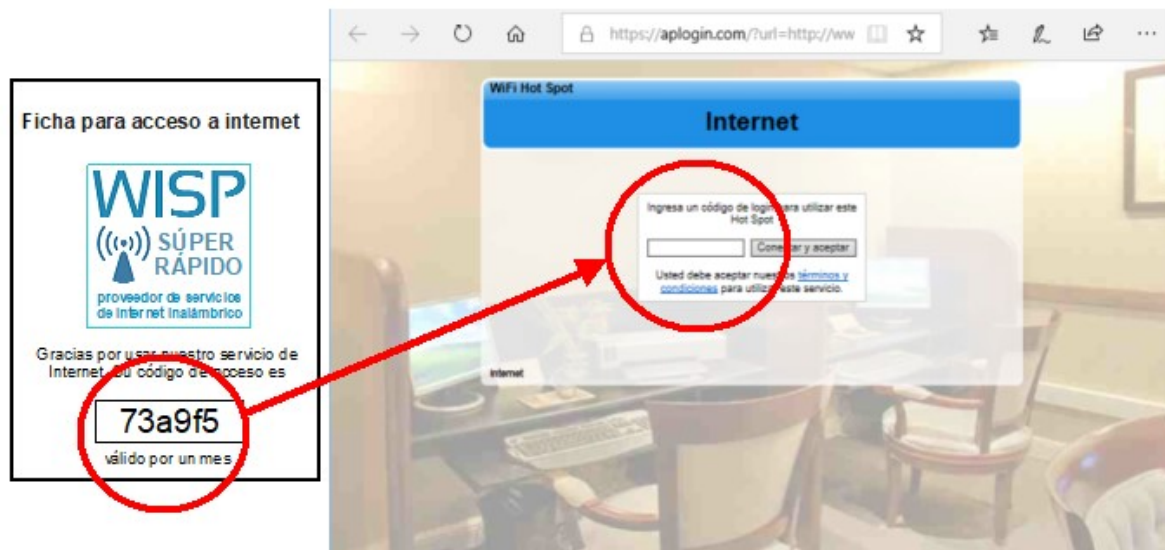


The community member with a mobile device who wants to connect to the Internet service must first get a voucher with an access code.

The next step is to connect the mobile device WiFi to the PtMP antenna by selecting the name of the WiFi (the SSID) using the mobile device.



The next step is to open a browser to see the login page, an example of a login page is shown in the next figure.



The code on the voucher is typed into the login page then the button is clicked. If the code is valid then the person gets access to the Internet.

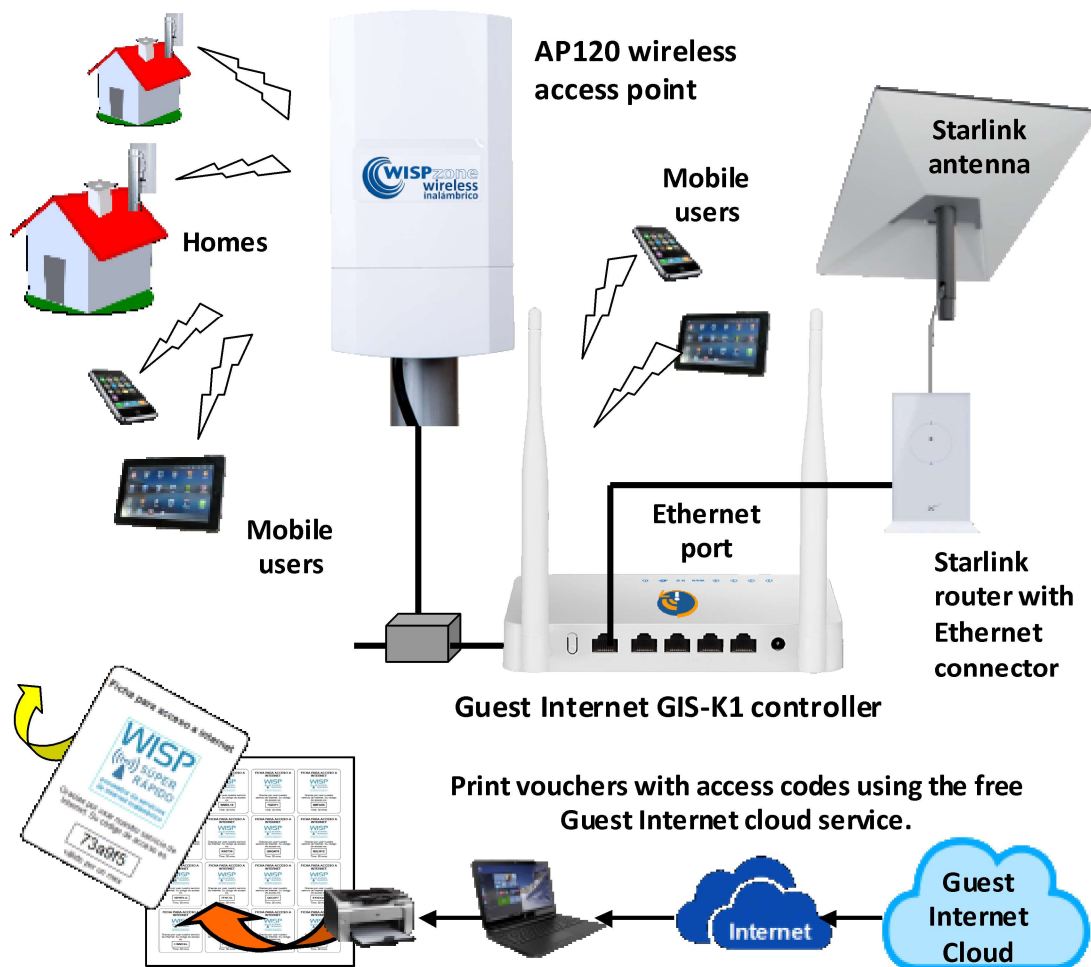
Contents of the STAR-10 kit

The STAR-10 kit connects to a Starlink antenna or any other Internet service and provides a controlled WiFi Internet service that can be provided for, or sold to a community. The STAR-10 kit shares the Internet service between many people.

There are two products included with the STAR-10 kit

- The GIS-K1 Internet controller: this controls the Internet access, generates access codes and prints vouchers with access codes that can be sold to members of the community.
- The AP120 wireless access point is a powerful outdoor wireless WiFi transmitter that should be installed at a high point for the maximum range of transmission.

The diagram shows how the products are connected together. The Starlink antenna is not included.



First configure the GIS-K1 Internet controller

The GIS-K1 product includes the quick-start guide in Spanish and English. Please read the quick-start guide before proceeding.

Please download the product manual using this link.

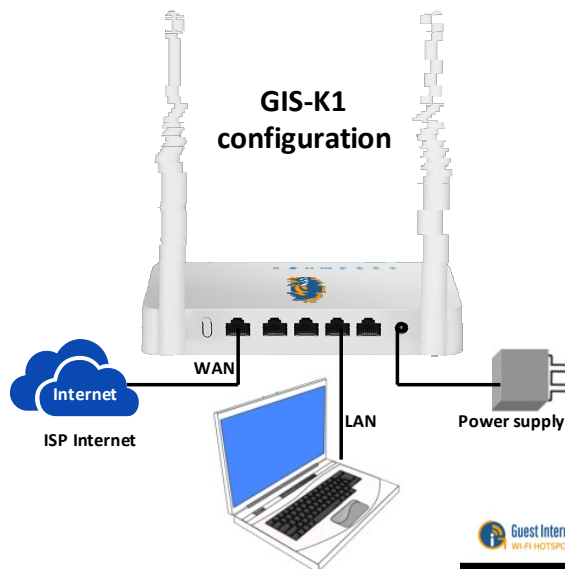
[https://www.guest-internet.com/pdfs/GIS_product_manual_\(English\)_1.1.24.pdf](https://www.guest-internet.com/pdfs/GIS_product_manual_(English)_1.1.24.pdf)

Or open our website and click on the manual link at the top right of the page.

www.guest-internet.com

Have the manual available and consult when you need more information about the steps in this document. This document describes the features required to start providing an Internet service to community residents. There are many other features such as failure monitor that can be enabled. Consult the manual to find out how to configure these features.

The GIS-K1 must be connected to the Internet to configure the product. Connect your computer to the GIS-K1 LAN1 port using an Ethernet cable as shown in the next diagram.

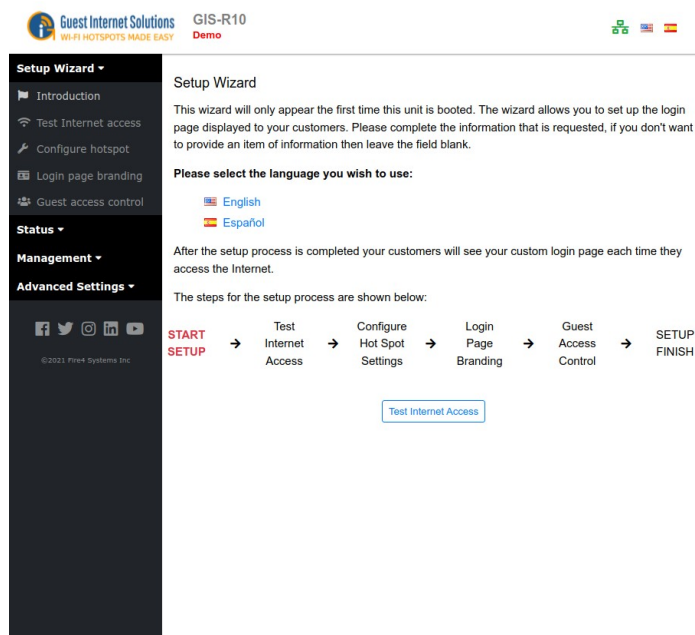


With your computer LAN port connected to the GIS-K1 LAN1 port open the computer browser, type 'aplogin.com'

The quick start wizard screen will open, like the screen shown in the figure.

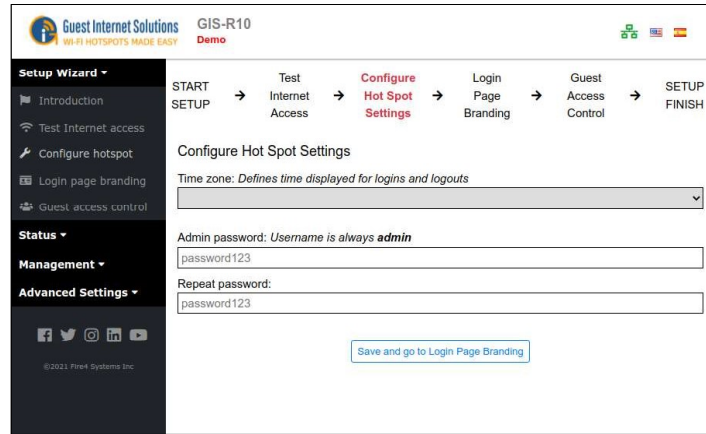
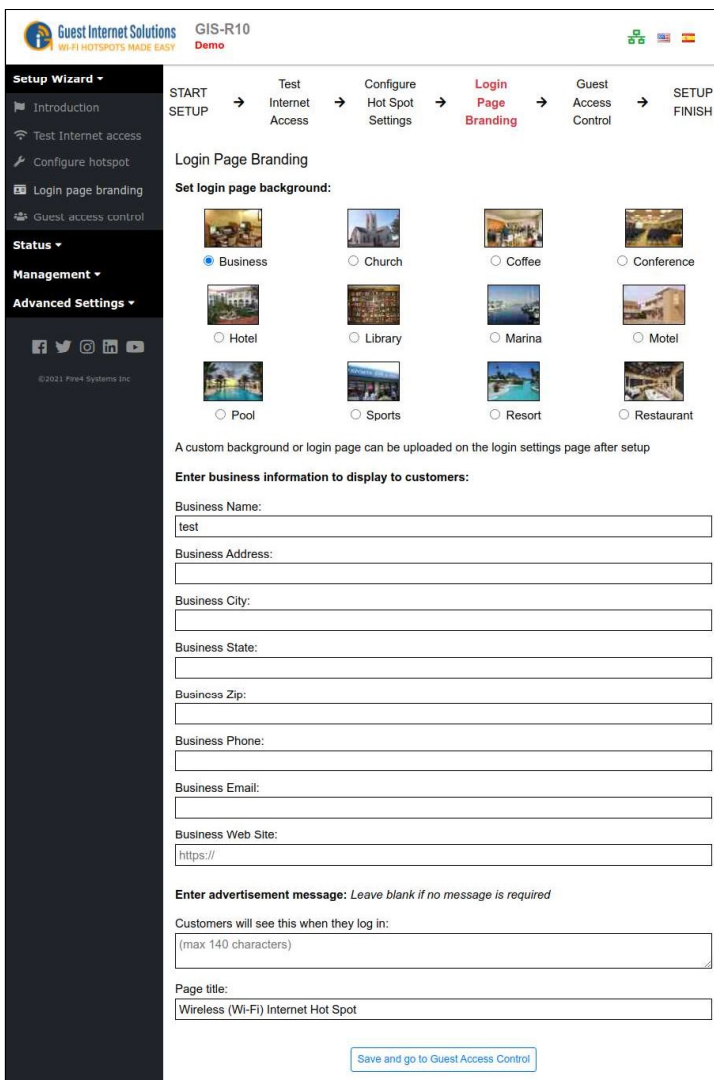
First, select the language flag top right, English or Spanish

Click the button to proceed.



Verify that the GIS-K1 has an Internet connection, the network figure next to the flag at the top right must be green, if it is red then stop and get an Internet connection. The setup procedure can only continue with an Internet connection.

Next enter a strong password to prevent unauthorized access, make a note of the password.

The next step is to configure the login screen. Select the background and enter the information requested.

This page will display your information in the captive portal. If you want to sell Internet access then explain where the access code vouchers can be purchased.

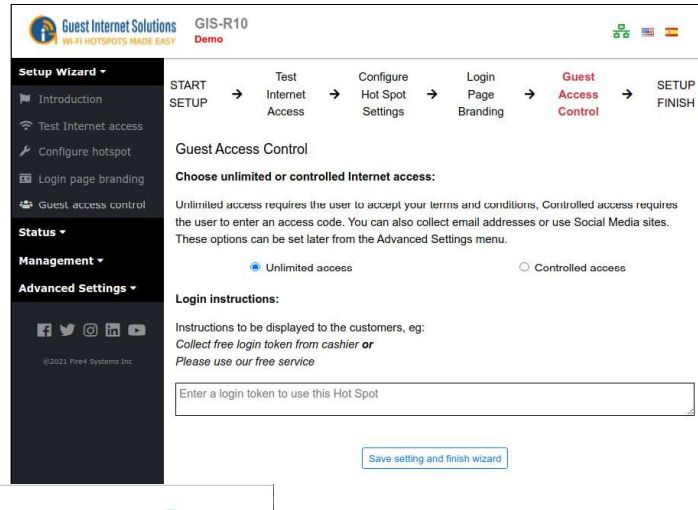
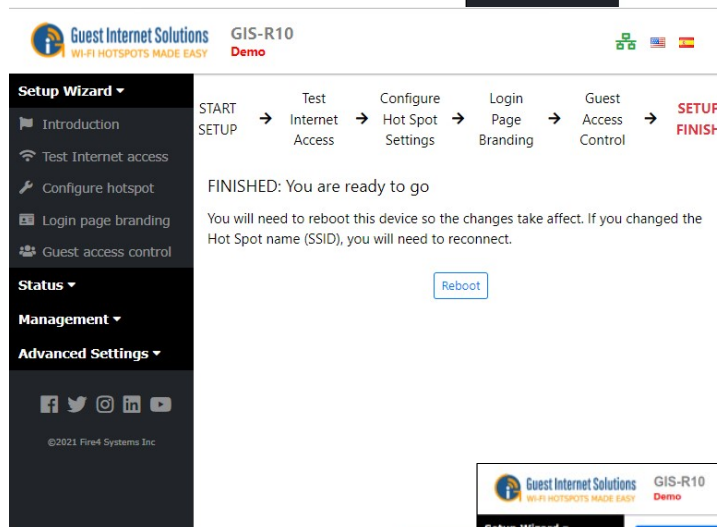
You can add announcements and other information about your service.

Click the button at the bottom of the page when finished.

Next select controlled access.
This will require the user to enter a code after opening the login page.

Add any message that should appear on the login page.

Click the button at the bottom of the page.

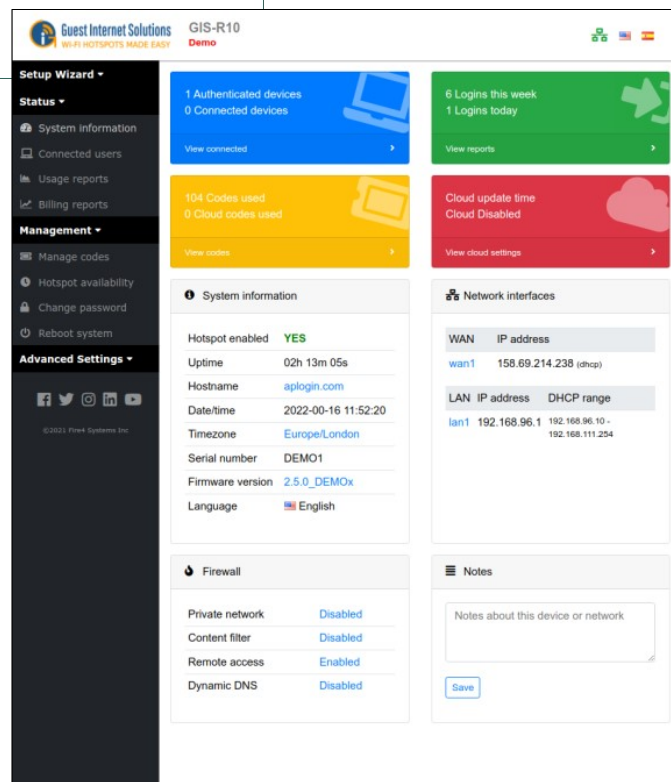
Click the button to complete the setup process and reboot the unit.

After reboot, open a new browser tab and login as the administrator to complete the setup procedure

Aplogin.com

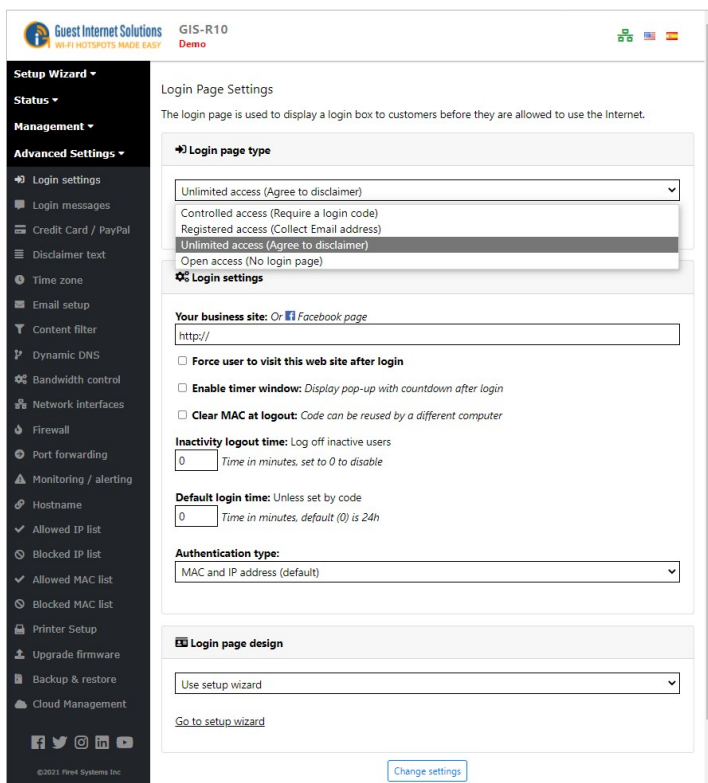
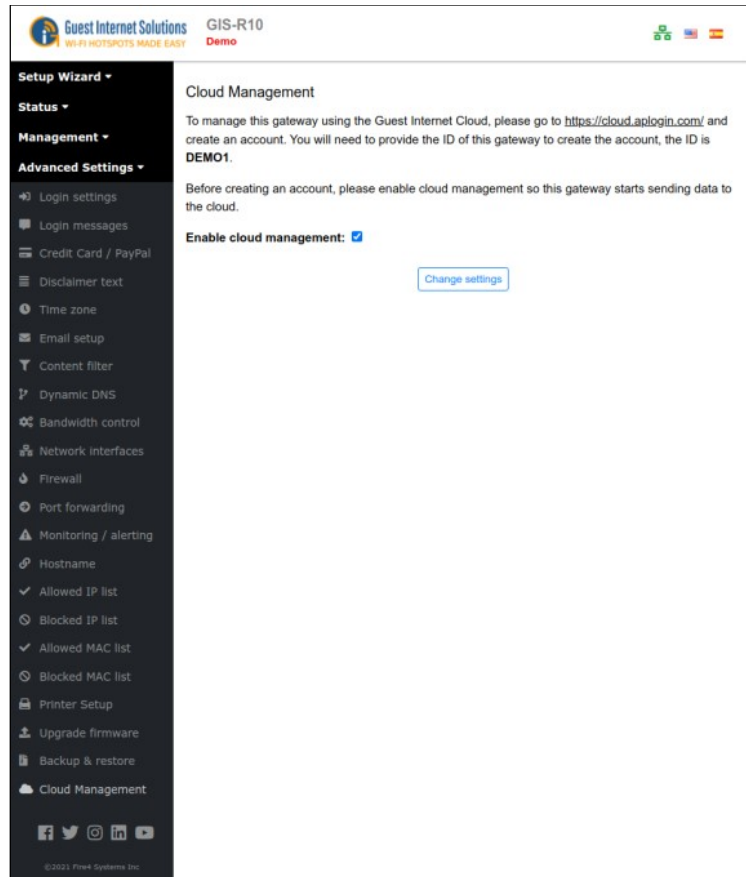
Username: admin

Password: set during setup



Enable the GIS-K1 cloud management so that it can be assigned to a cloud account later.

The cloud account will allow you to manage the service remotely and also print access code vouchers using the cloud.



Consult the manual to make any changes to the login page or to create a customized login page.

Installing the AP120 wireless access point

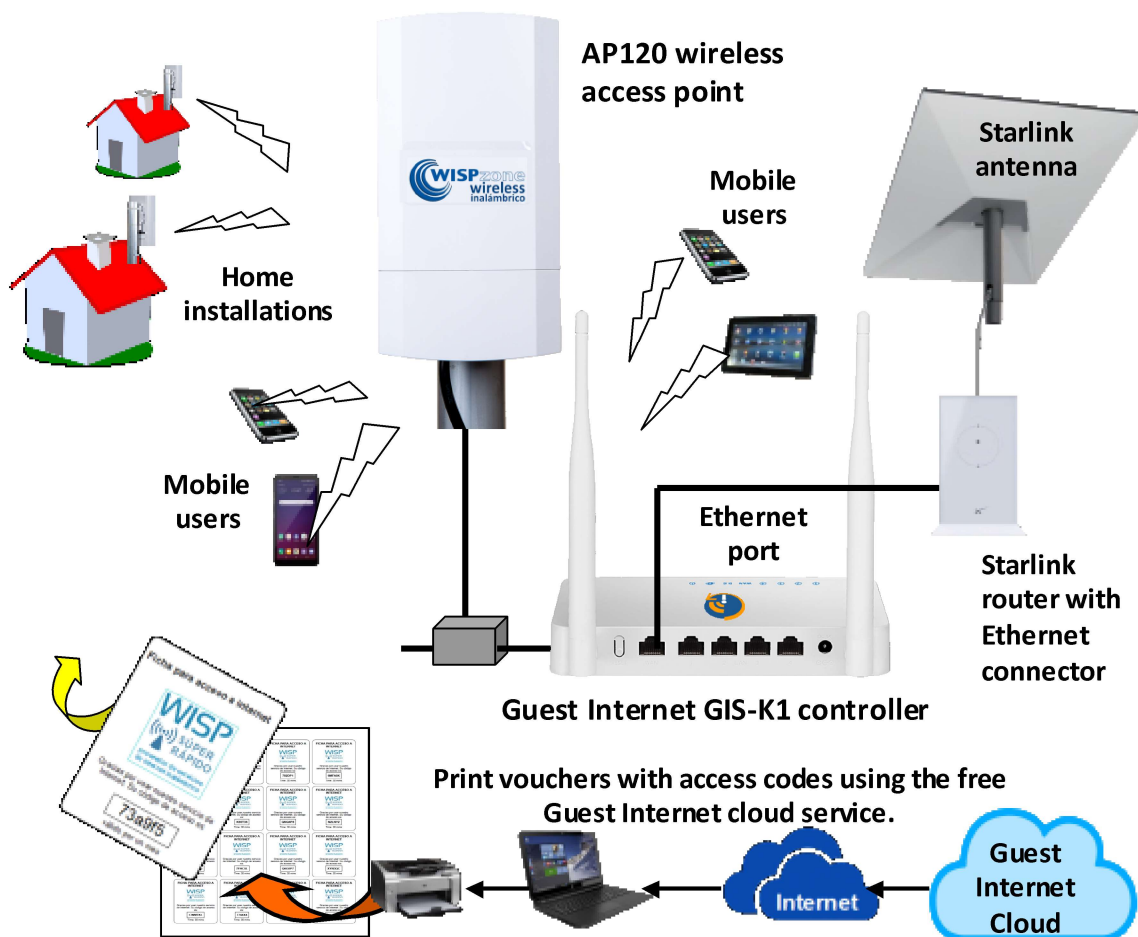
The AP120 wireless access point is already pre-configured for public WiFi use as follows:

- Wireless name (SSID): **Hot Spot**
- No WPA encryption configured.

The AP120 wireless access point is connected to the GIS-K1 controller as shown in the diagram. The AP120 radiates the WiFi signal for mobile users and homes that have a STAR-4 kit installed.

A mobile phone can connect to the AP120 wireless access point WiFi signal within a short radius of less than 100m. A home with a STAR-4 kit installed can connect to the AP120 when the range is less than 1Km. All wireless connections must be line of sight; a tree or building will block the signal.

The AP120 product configuration will be adequate for most applications and so no configuration is required. Skip the configuration and go to the test section.



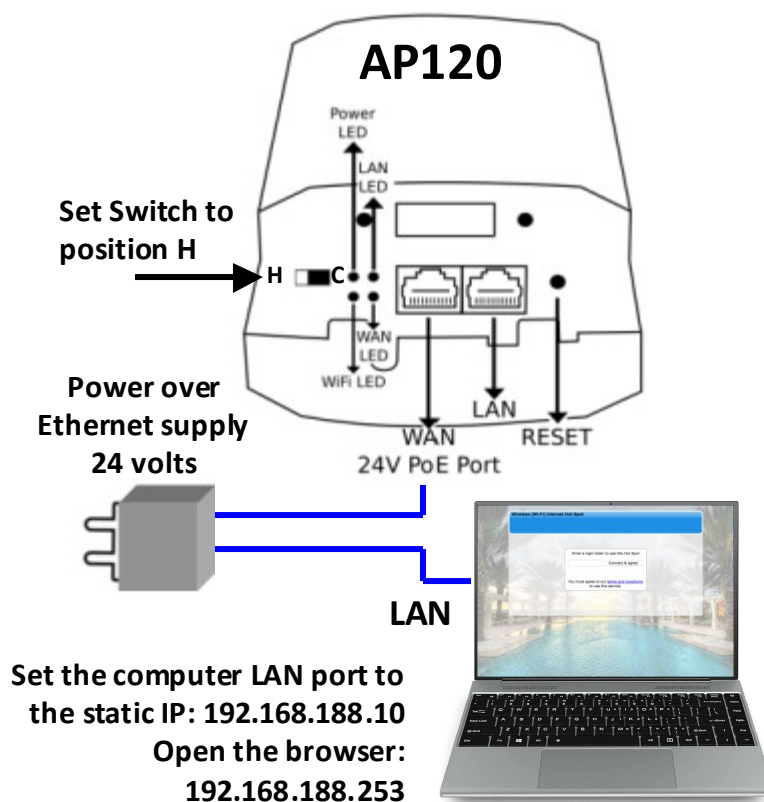
Configuring the AP120 wireless access point

The AP120 WiFi product is pre-configured for most community WiFi applications. However the configuration can be changed for different applications. This section describes how to change the configuration. The configuration has three sections.

- Change the wireless name that is transmitted, the SSID.
- Add an encryption key to the wireless transmission.
- Change the password to login to the administrator pages.

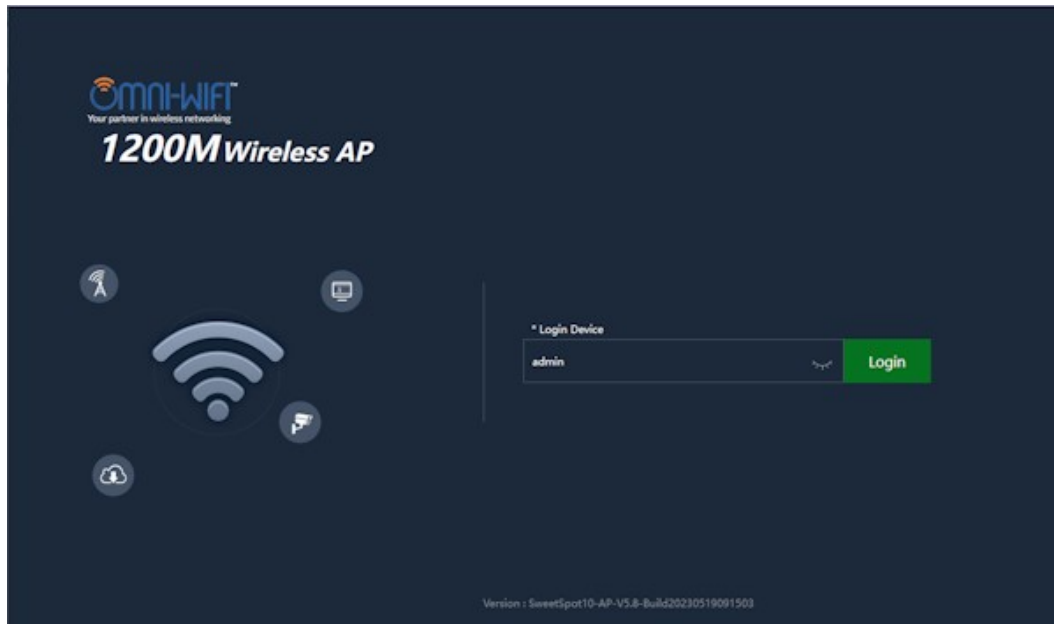
If the password is forgotten then press the reset button to return to the factory setting and configure the product again.

To configure the AP120, connect a computer as shown in the figure. The computer LAN port must be configured for the static IP address 192.168.188.10.

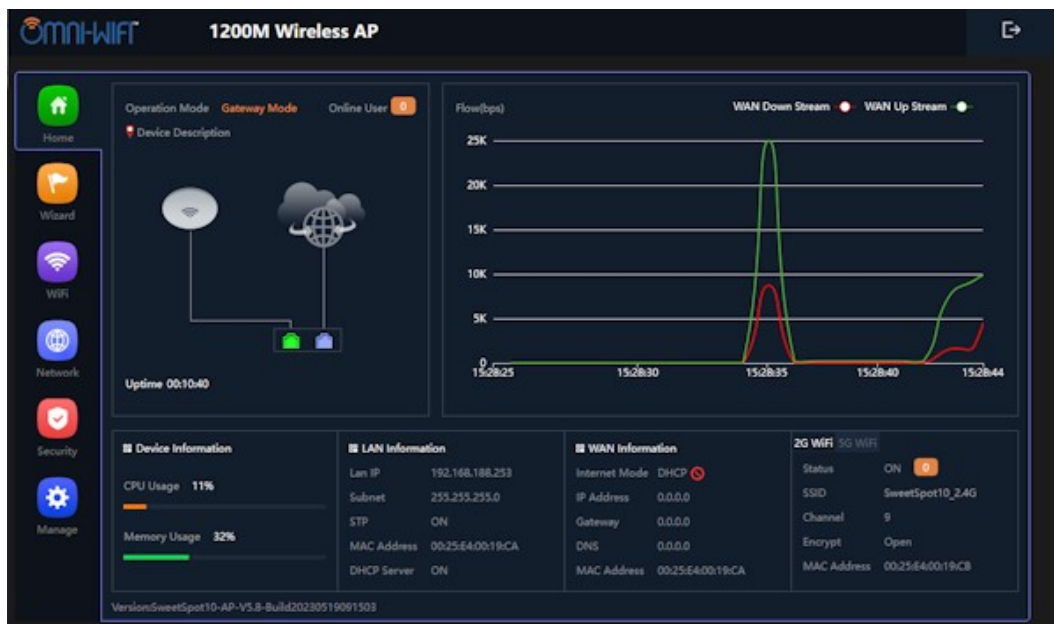


Open a browser tab and type the login page IP address: 192.168.188.253

The login page will open. Enter the password **admin** and click login.



After login the **home** page opens.

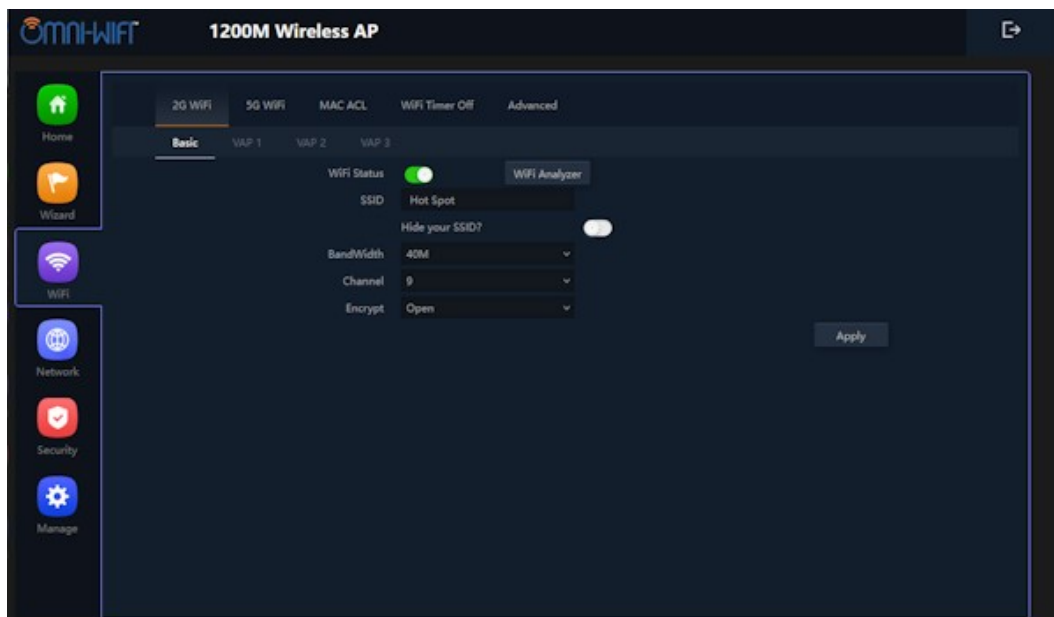


Click the **wizard** tab; verify that the AP120 is configured in **AP mode**



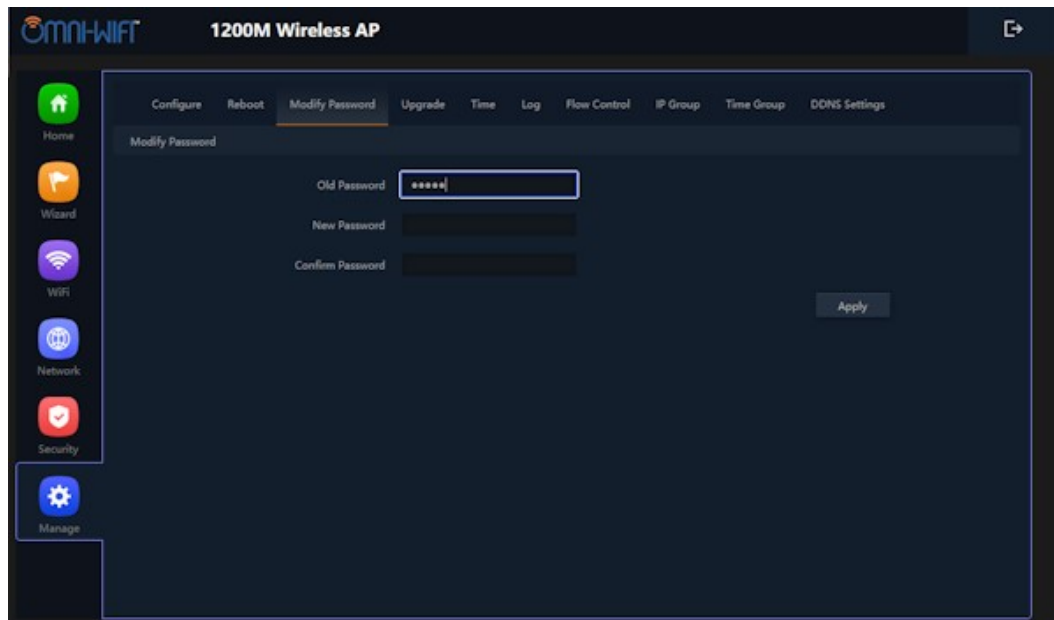
Click the **WiFi** tab.

On the **2G WiFi** menu (2.4 GHz) the wireless broadcast name (SSID) is set as **Hot Spot**, this can be changed by typing a new name. The **WiFi password** (WPA encryption key) is set to open so there is no encryption; this is the correct configuration for public WiFi Internet. The WiFi password can be changed to encryption. If this is changed then a password (encryption key) must be added in the box that appears below, the default password is 66666666. After a change click **Apply**.



The final step is to select the **Manage** tab and then select the **Modify Password** menu. Enter the default password **admin** and then enter and confirm your new password. When the password has been entered click **Apply**.

Note that if the password has been lost or forgotten then the AP120 will have to be reset to the factory default using the reset button and then reconfigured.



Click the right arrow at the top right of the screen to logout of the administration page. Change your computer LAN port IP setting to DHCP client.

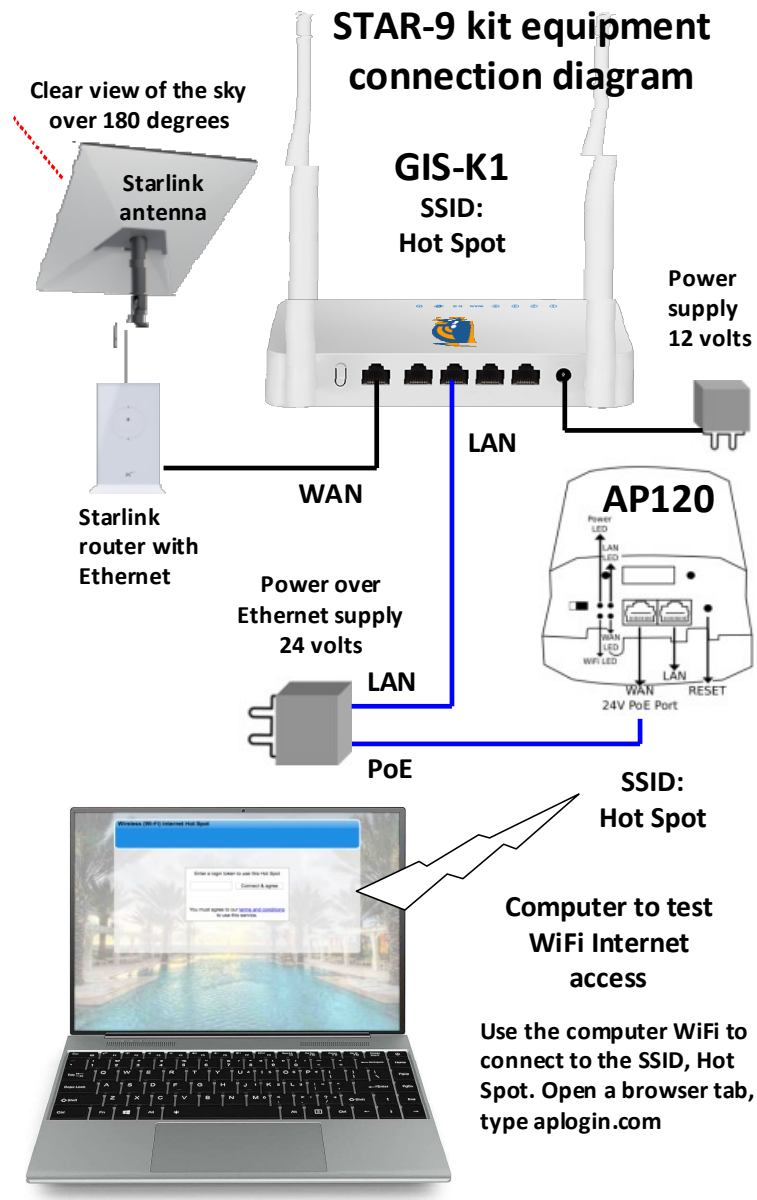
Test the AP120 Internet access when connected to the GIS-K1 and a Starlink antenna

Connect the GIS-K1 WAN port to the Starlink Ethernet connector as shown in the diagram. Connect the AP120 WAN port to the PoE power supply and then to the GIS-K1 LAN1 port.

Connect the computer WiFi to the wireless name (SSID) **Hot Spot**.

Open a new browser tab, type the name of the Guest Internet login page and press enter: **aplogin.com**.

The login screen should open as shown in the diagram with a box to enter the login code. If there is no Internet access a message will display on the screen. If a login page does not open then go back to the step of testing the computer connection with the GIS-K1.



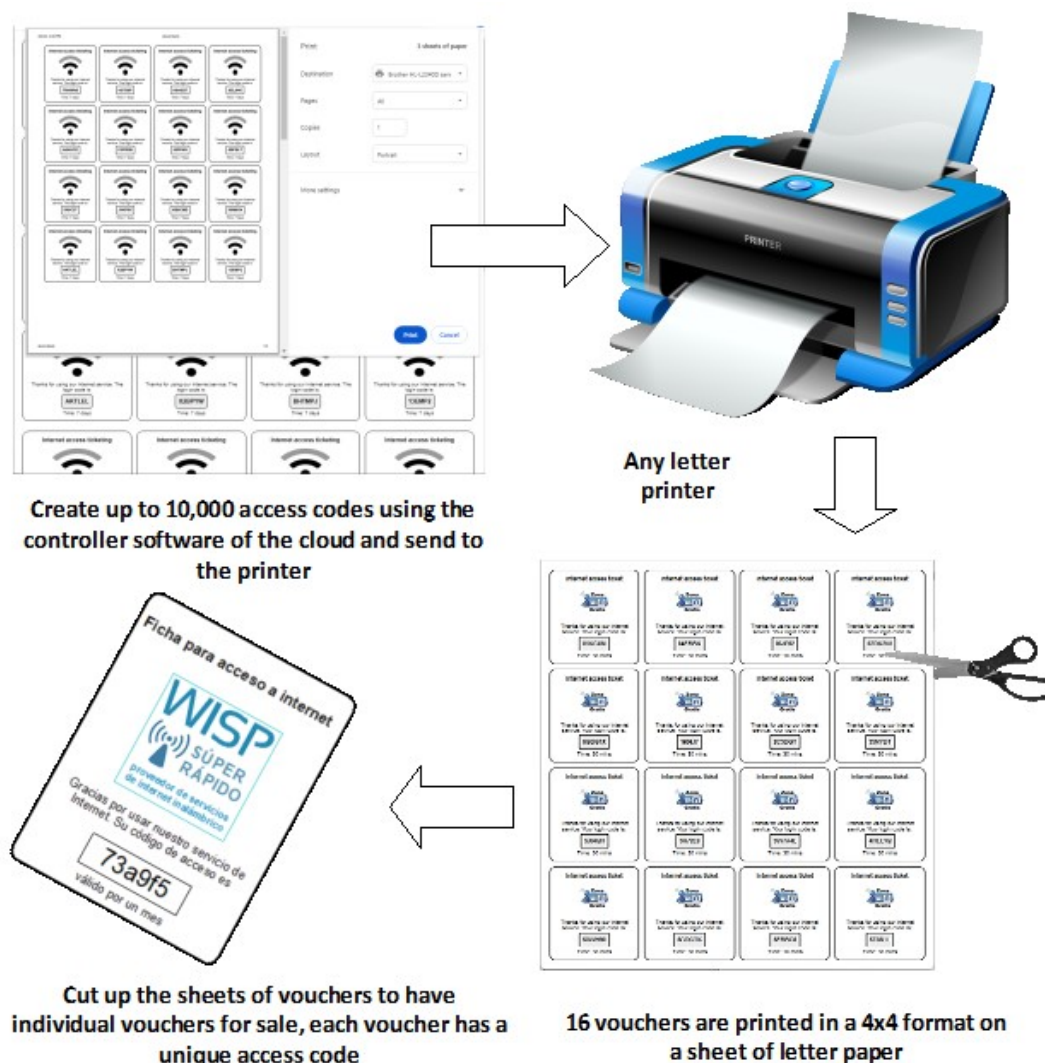
Two methods of voucher access code printing

Vouchers with access codes can be printed using the Guest Internet controller or using the Guest Internet Cloud to provide codes for a group of controllers.

- Access code vouchers that are printed using the Guest Internet controller can only be authenticated with that controller.
- Any controller in the cloud group can authenticate access code vouchers that are printed using the cloud for a group of controllers.

Before printing any vouchers, the voucher template must be prepared in the controller or the cloud, as described in a previous section.

The procedure to print vouchers is illustrated in the next diagram. Access codes are created using the controller software or the cloud group. The button to print the codes as vouchers is selected. Vouchers are sent to the letter printer attached to the computer. The printed pages are then cut into vouchers and the vouchers can be sold to community residents.

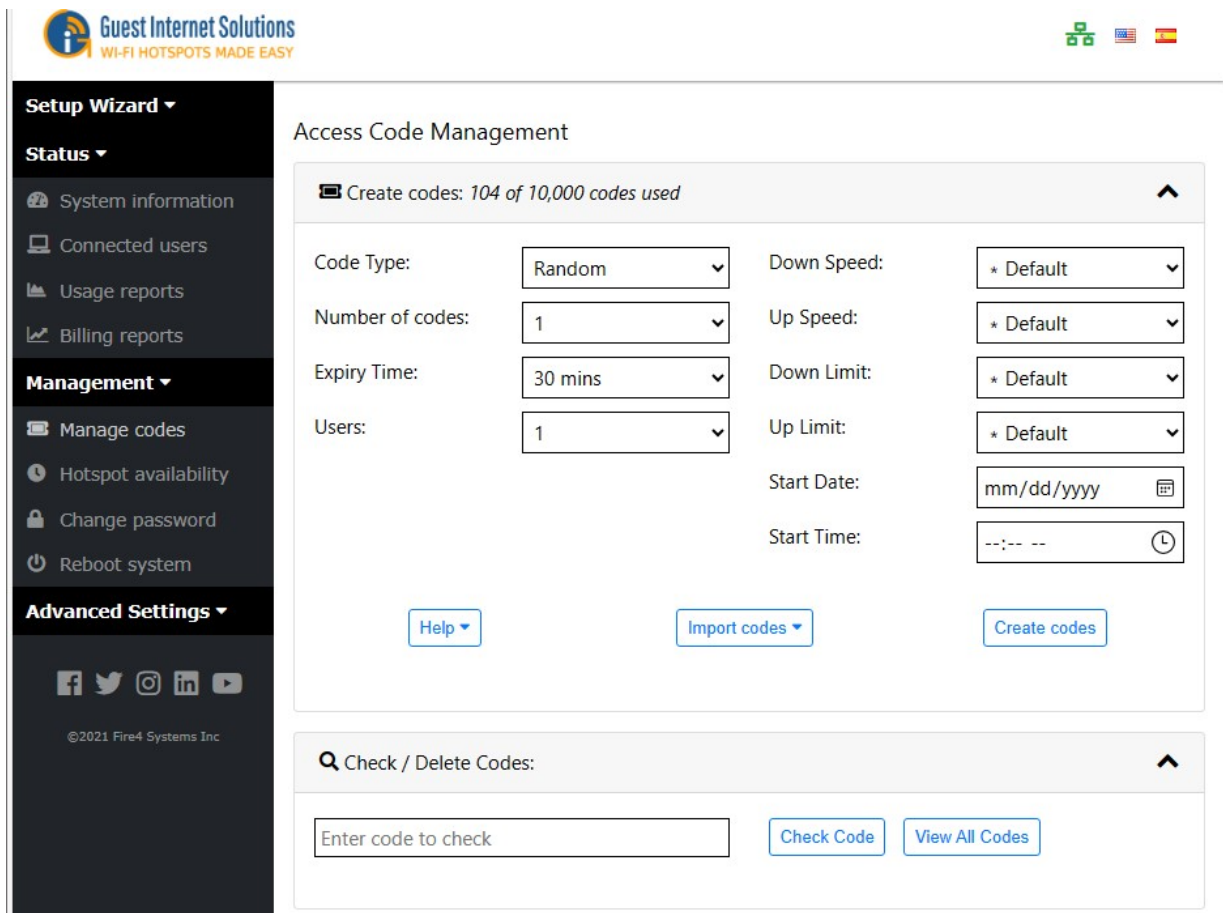


Printing access code vouchers using the Guest Internet controller.

Connect your computer to the Guest Internet controller wireless or LAN port and login as the admin using your password.

aplogin.com/admin

Click the 'manage codes' menu.



The screenshot shows the 'Access Code Management' page of the Guest Internet Solutions web interface. The left sidebar contains a 'Setup Wizard' menu with 'Status' and 'Management' sections. The 'Management' section includes 'Manage codes', 'Hotspot availability', 'Change password', and 'Reboot system'. The main content area is titled 'Access Code Management' and shows a status bar indicating '104 of 10,000 codes used'. Below this, there are two columns of settings for creating codes. The first column includes 'Code Type' (set to 'Random'), 'Number of codes' (set to '1'), 'Expiry Time' (set to '30 mins'), and 'Users' (set to '1'). The second column includes 'Down Speed', 'Up Speed', 'Down Limit', 'Up Limit', 'Start Date', and 'Start Time', all set to '* Default' or blank. At the bottom of the settings area are buttons for 'Help', 'Import codes', and 'Create codes'. Below the settings area is a search bar labeled 'Check / Delete Codes:' with a text input field 'Enter code to check' and buttons for 'Check Code' and 'View All Codes'.

To print vouchers, the code type is set to 'random'.

Select the number of codes (vouchers) to print.

Select the expiry time, 30 minutes to unlimited.

Select the number of users per code; this is set to 1 by default.

The following parameters are optional.

Select the maximum down and up data speeds that the code will allow.

Set the maximum down and up data byte quantity that the code will allow.

Set the start date and start time of the code if it is not to be used immediately.

Click the button 'create codes'.



Guest Internet Solutions
WI-FI HOTSPOTS MADE EASY



Setup Wizard ▾

Status ▾

- System information
- Connected users
- Usage reports
- Billing reports

Management ▾

- Manage codes
- Hotspot availability
- Change password
- Reboot system

Advanced Settings ▾



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Access Code Management

Create codes: 204 of 10,000 codes used

Code Type:

Random ▾

Down Speed:

2048 Kb/s ▾

Number of codes:

100

Up Speed:

512 Kb/s ▾

Expiry Time:

7 days ▾

Down Limit:

∞ Unlimited ▾

Users:

1 ▾

Up Limit:

∞ Unlimited ▾

Start Date:

mm/dd/yyyy

Start Time:

--:-- --

Help ▾

Import codes ▾

Create codes

New Codes:

Print codes

Download CSV

Code	Description	Time	Users	Down Kbps	Up Kbps	Down MB	Up MB
CBNFBT		7d	1	2048	512	∞	∞
71GLBH		7d	1	2048	512	∞	∞
1T67BD		7d	1	2048	512	∞	∞
JA1T3C							
8D0009							
DTJESX							
8PT04X							

Print

Total: 7 sheets of paper

Printer

Brother HL-L2340D series ▾

Copies

1

Layout

☒ Portrait

☐ Landscape

Pages

☒ All

☐ Odd pages only

☐ Even pages only

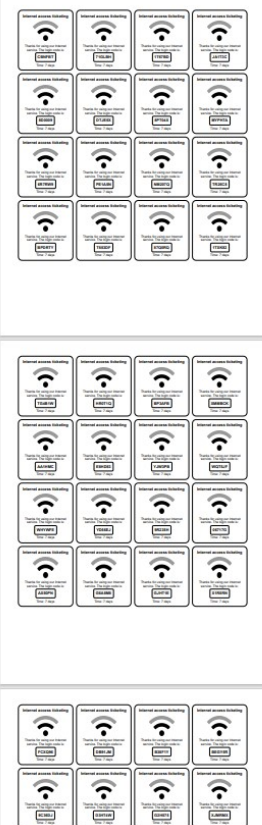
☐ e.g. 1-5, 8, 11-13

More settings ▾

Print using system dialog... (Ctrl+Shift+P)

Print

Cancel



When the codes have been generated then check that the printer is connected and click the button 'print codes' to generate the vouchers.

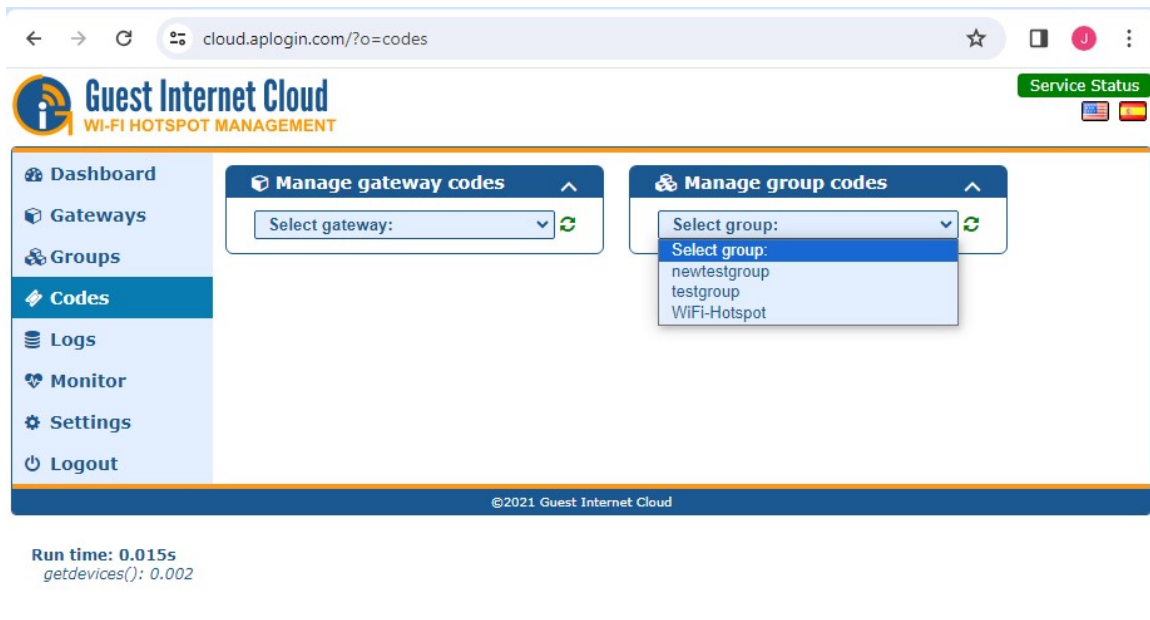
Then click the 'print' button to send to the printer.

Print access code vouchers using your Guest Internet Cloud account.

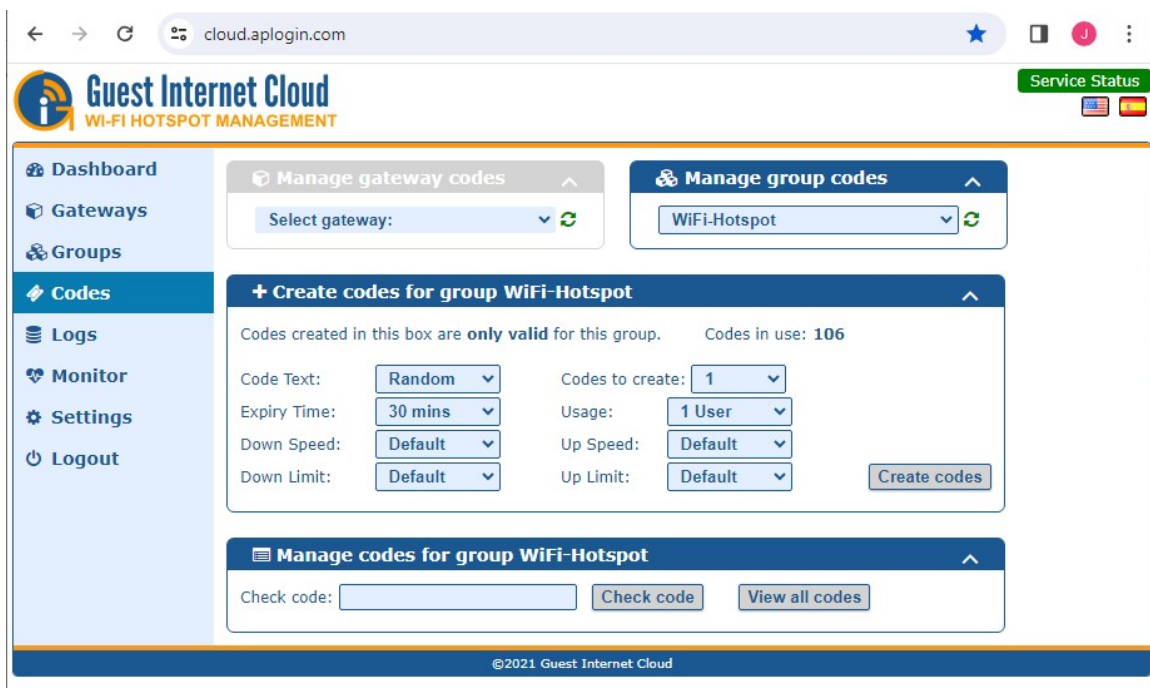
Connect your computer to the Internet and login to your guest Internet cloud account. A previous section described the process to create the Cloud account.

<https://cloud.aplogin.com/>

Click the 'codes' menu then select the group that the codes are to be generated for. All Guest Internet controllers assigned to that group will authenticate the codes.



The code generation page is then displayed.



To print vouchers, the code type is set to 'random'.

Select the number of codes (vouchers) to print.

Select the expiry time, 30 minutes to unlimited.

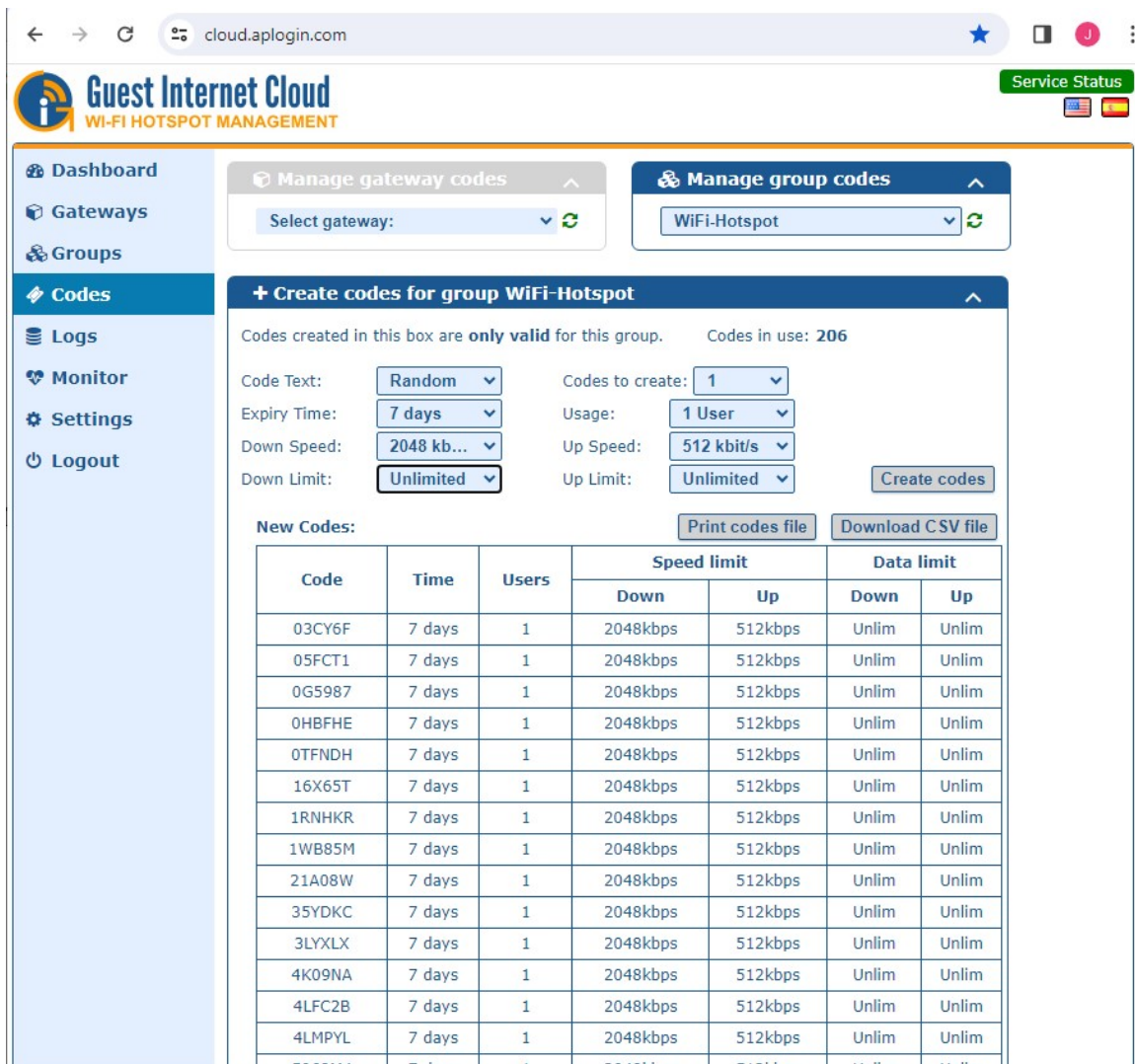
Select the number of users per code; this is set to 1 by default.

The following parameters are optional:

Select the maximum down and up data speeds that the code will allow.

Set the maximum down and up data byte quantity that the code will allow.

Click the button 'create codes'.



+ Create codes for group WiFi-Hotspot

Codes created in this box are **only valid** for this group. Codes in use: 206

Code Text: Codes to create:

Expiry Time: Usage:

Down Speed: Up Speed:

Down Limit: Up Limit:

New Codes:

Code	Time	Users	Speed limit		Data limit	
			Down	Up	Down	Up
03CY6F	7 days	1	2048kbps	512kbps	Unlim	Unlim
05FCT1	7 days	1	2048kbps	512kbps	Unlim	Unlim
0G5987	7 days	1	2048kbps	512kbps	Unlim	Unlim
0HBFHE	7 days	1	2048kbps	512kbps	Unlim	Unlim
0TFNDH	7 days	1	2048kbps	512kbps	Unlim	Unlim
16X65T	7 days	1	2048kbps	512kbps	Unlim	Unlim
1RNHKK	7 days	1	2048kbps	512kbps	Unlim	Unlim
1WB85M	7 days	1	2048kbps	512kbps	Unlim	Unlim
21A08W	7 days	1	2048kbps	512kbps	Unlim	Unlim
35YDKC	7 days	1	2048kbps	512kbps	Unlim	Unlim
3LYXLX	7 days	1	2048kbps	512kbps	Unlim	Unlim
4K09NA	7 days	1	2048kbps	512kbps	Unlim	Unlim
4LFC2B	7 days	1	2048kbps	512kbps	Unlim	Unlim
4LMPYL	7 days	1	2048kbps	512kbps	Unlim	Unlim
5068M4	7 days	1	2048kbps	512kbps	Unlim	Unlim

Click the button 'print codes file'. The vouchers are formatted and ready to be printed on the attached letter printer.

The screenshot shows a web browser window at `cloud.aplogin.com/?print=d5459ae65b184811826332f59b373600.csv`. The main content area displays a grid of 16 'Internet access ticket' vouchers, each with a 'Zona WiFi Gratis' logo, a login code, and a 7-day validity period. The print settings sidebar on the right includes:

- Print**: 7 sheets of paper
- Destination**: Brother HL-L2340D series
- Pages**: All
- Copies**: 1
- Layout**: Portrait
- More settings**: (expandable)
- Buttons**: Print, Cancel

Click the 'Print' button to send to the printer.

After printing the vouchers can be cut up and distributed.

