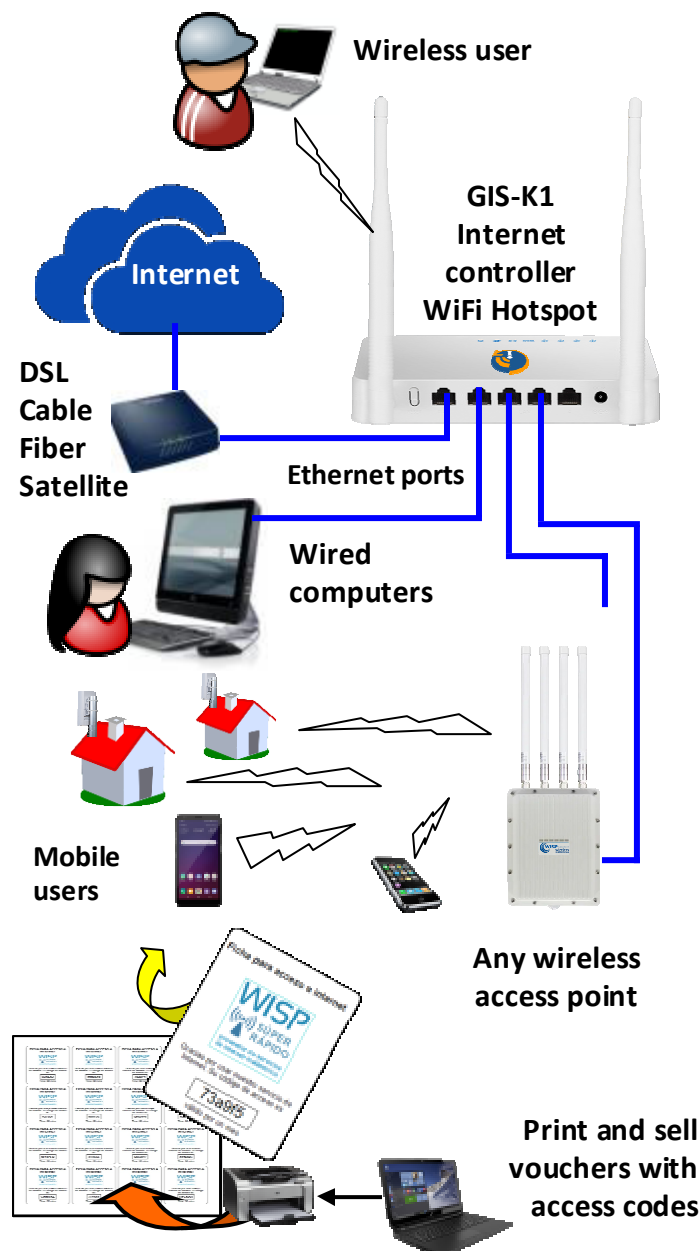


# STAR-13: Community WiFi Internet kit with the GIS-K1 controller

## STAR-13

Start a community Internet service by installing the GIS-K1 and connecting any wireless access point



You provide the ISP Internet service, and use Guest Internet STAR-13 kit to sell the Internet service at your community.

STAR-13 is a kit to sell WiFi Internet access for wired computers and for mobile devices using any wireless access point.

- 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.

### Kit Contents:

GIS-K1 Internet controller  
Ethernet cable  
Free cloud account access  
Installation instructions

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For more information contact: [support@guest-internet.com](mailto:support@guest-internet.com)

## Introduction: how to provide a community Internet service

Anyone wishing to provide an Internet service to a community 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.

The community members 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 community members, 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;

- Mobile broadband: people with mobile devices who connect to a WiFi Hotspot antenna to get Internet access. The mobile users have to be within 100m to 200m of the Hotspot antenna.
- Fixed wireless access: People in homes connect to the WiFi antenna using an antenna on the roof of the home. The roof antenna then connects to a wireless router in the home. Home users can connect over 1Km when there is a clear line of sight from the home antenna to the WiFi antenna.

The network infrastructure that will provide the Internet service to community members has four parts.

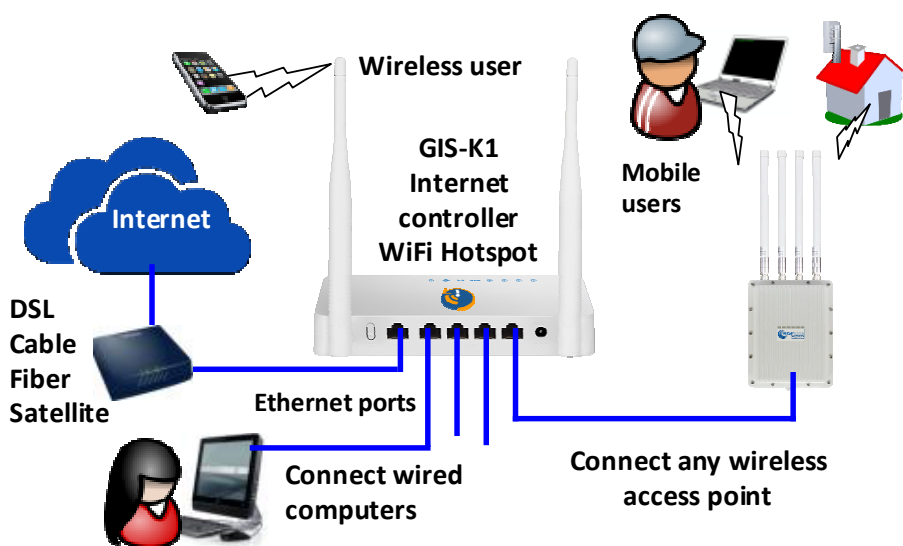
- The Internet service provider. This is the Internet connection that is shared with community members and can use any of the following technologies; ADSL, cable, fiber, wireless point-to-point, geo-stationary satellite, or low earth orbit (LEO) satellite. The Starlink Internet service uses LEO satellites. 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.

### STAR-13 - Start a community Internet service



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.

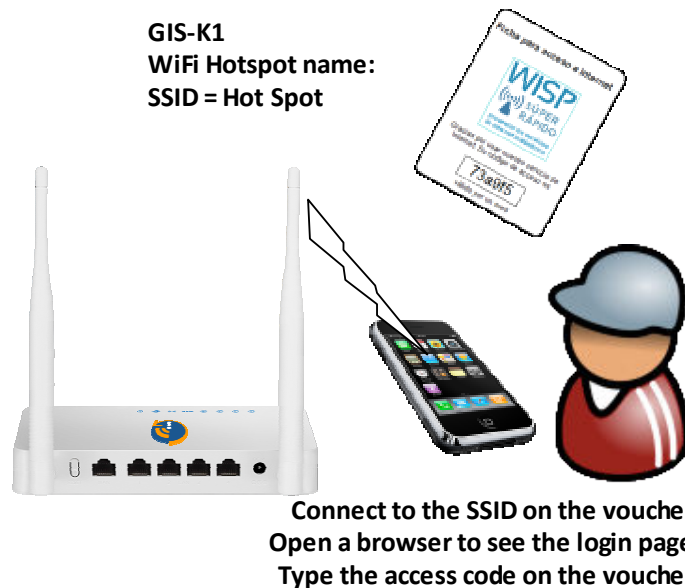
### Access code voucher printing

Print vouchers with access codes using the Guest Internet controller or the free Guest Internet cloud service.

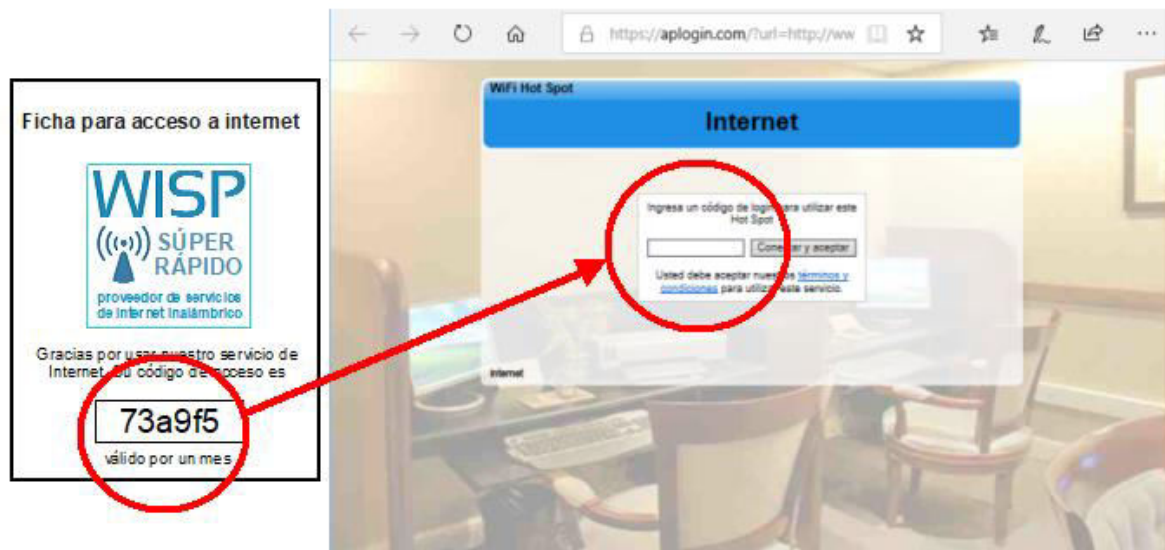


The community member with a mobile device who wants to connect to the Internet service must first get a voucher with an access code.

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-13 kit

The STAR-13 kit connects to any ISP including Starlink Internet service, and provides a controlled WiFi Internet service that can be shared with, or sold to a community. The STAR-13 kit shares the Internet service between many people.

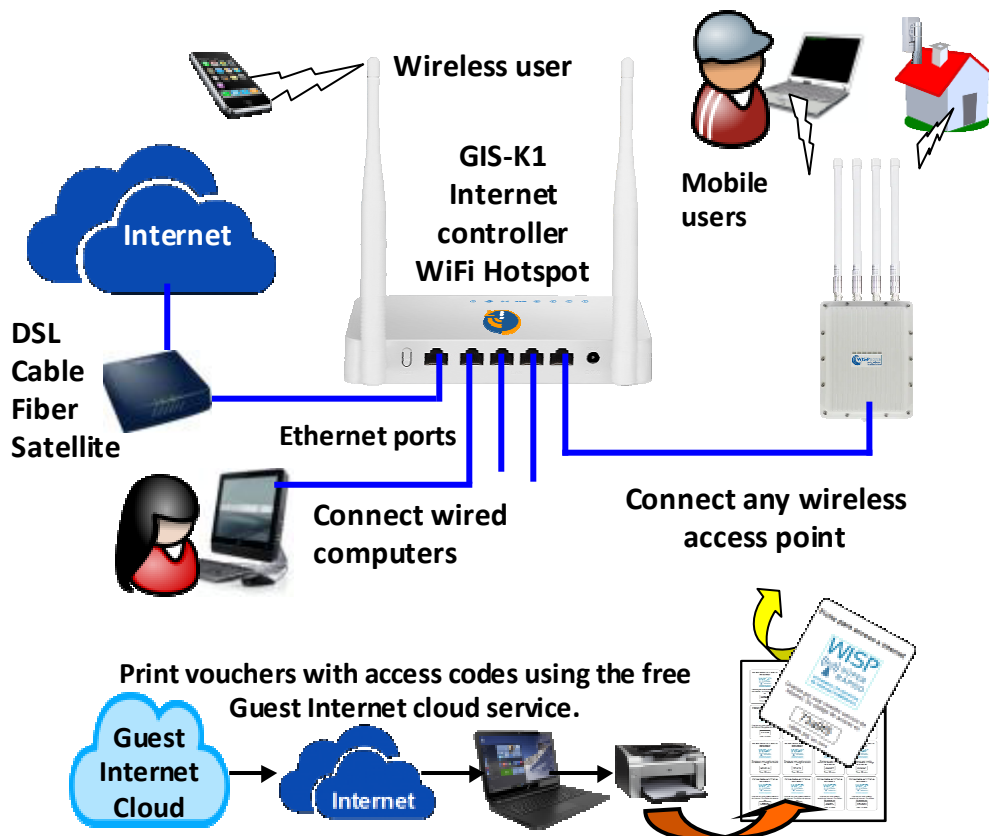
The STAR-13 kit includes the GIS-K1 Internet controller: this controls the Internet access, generates access codes and prints vouchers with access codes that can be sold to members of the community.

- Additional devices can be connected to the GIS-K1, these include:
- Wired computers
- Wireless access points
- An Ethernet switch to increase the number of ports

Vouchers with access codes can be generated using the GIS-K1 or with the Guest Internet cloud when the GIS-K1 is assigned to a cloud account.

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

### STAR-13 - Start a community Internet service



## 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.

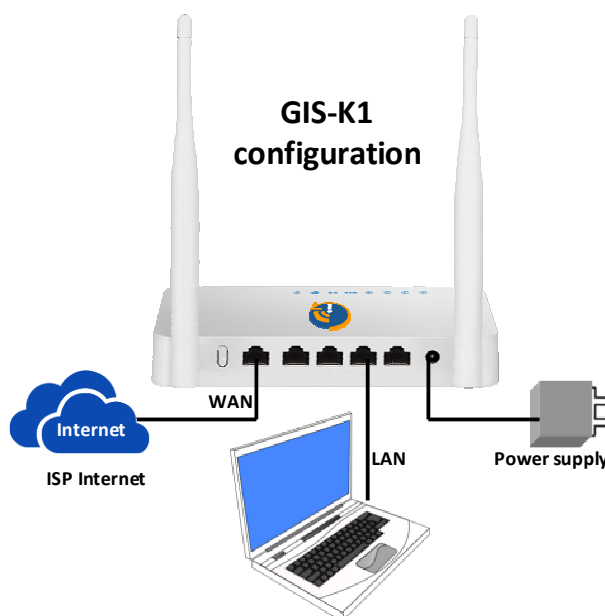
[https://www.guest-internet.com/pdfs/GIS\\_product\\_manual\\_\(English\)\\_1.1.24.pdf](https://www.guest-internet.com/pdfs/GIS_product_manual_(English)_1.1.24.pdf)

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

**[www.guest-internet.com](http://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.

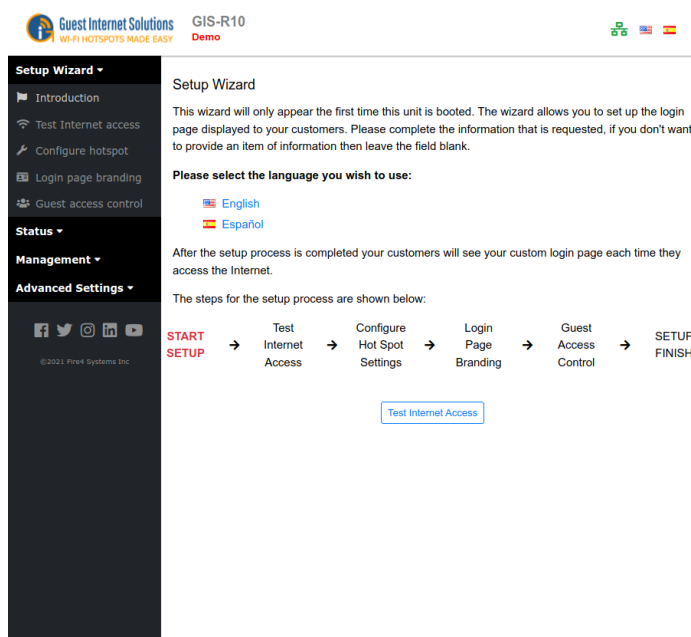


With your computer LAN port connected to the GIS-K1 LAN1 port open the computer browser, type 'aplogin.com'

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

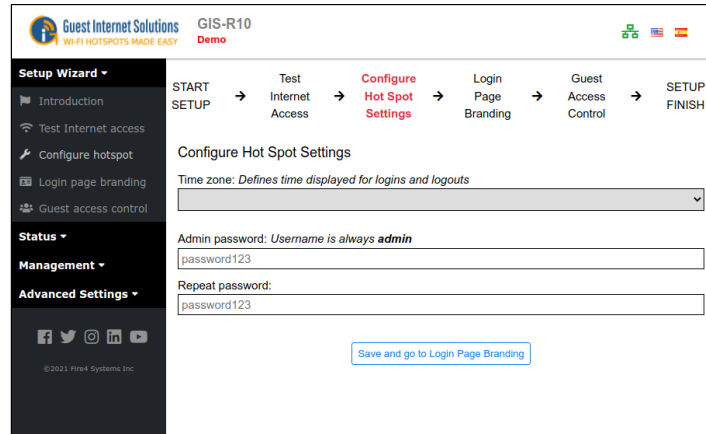
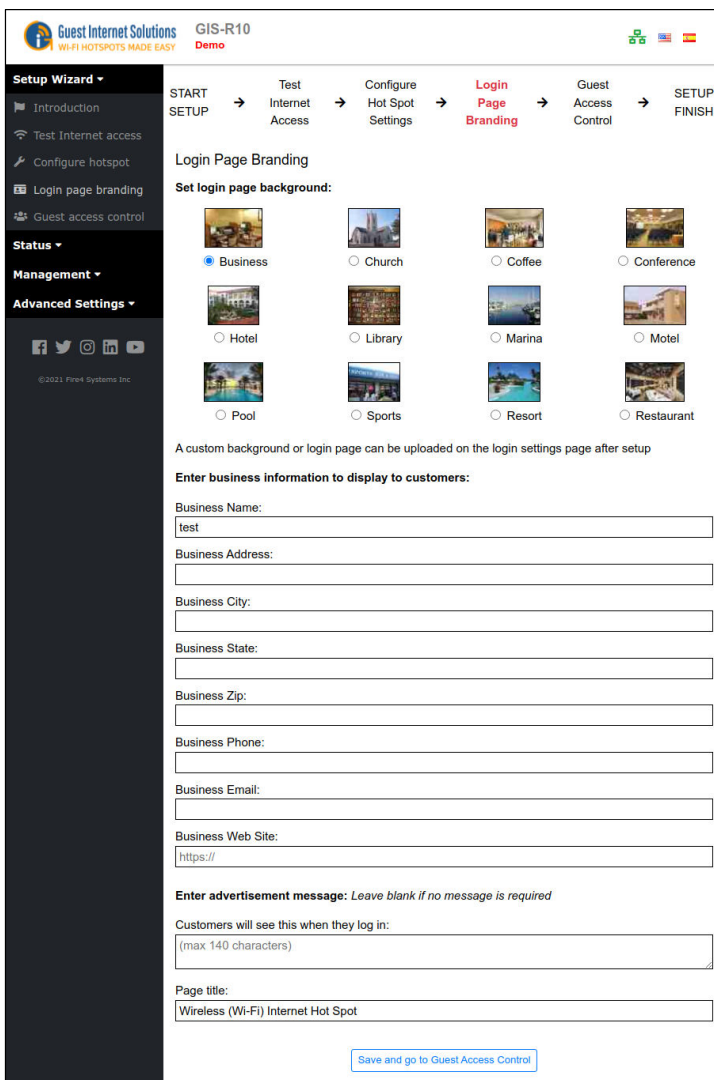
**First, select the language flag top right, English or Spanish**

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.

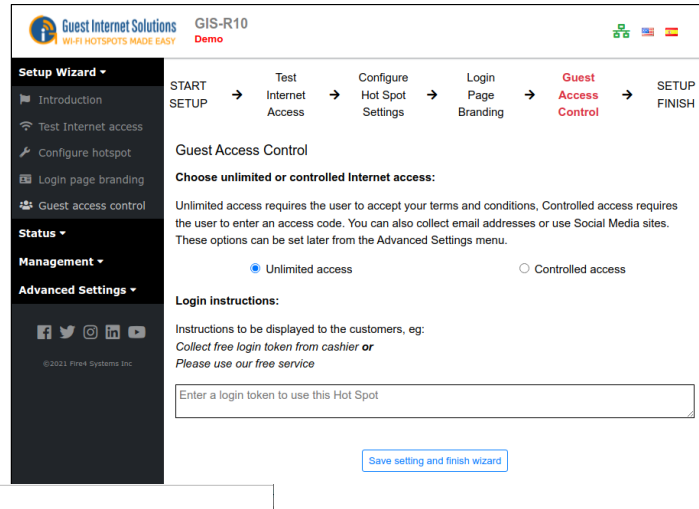
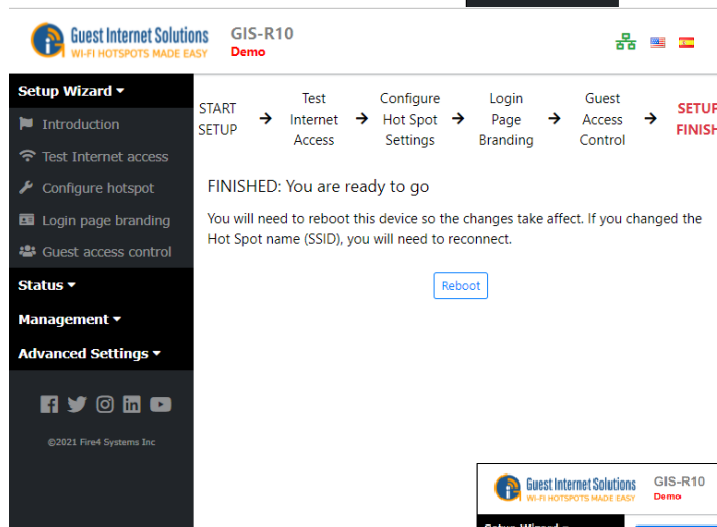
You can add announcements and other information about your service.

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.

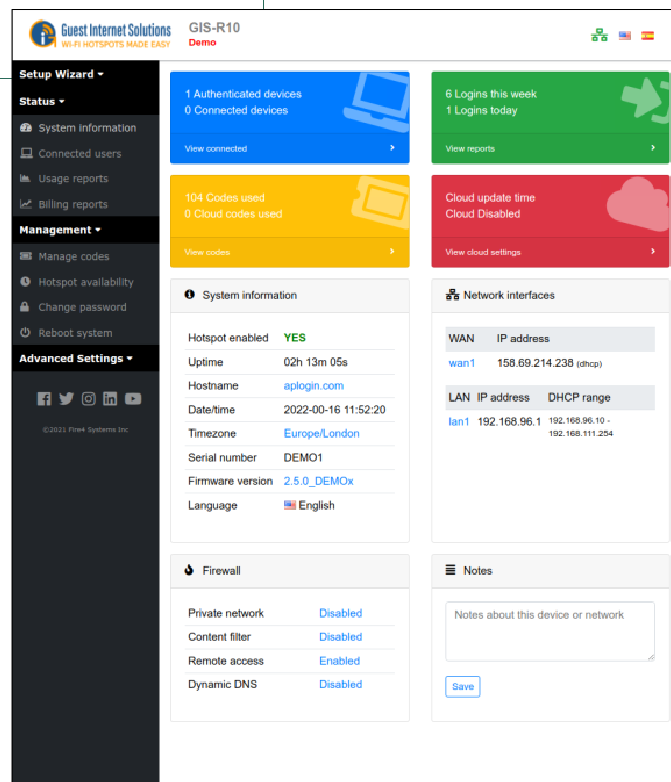
Click the button to complete the setup process and reboot the unit.

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

**Aplogin.com**

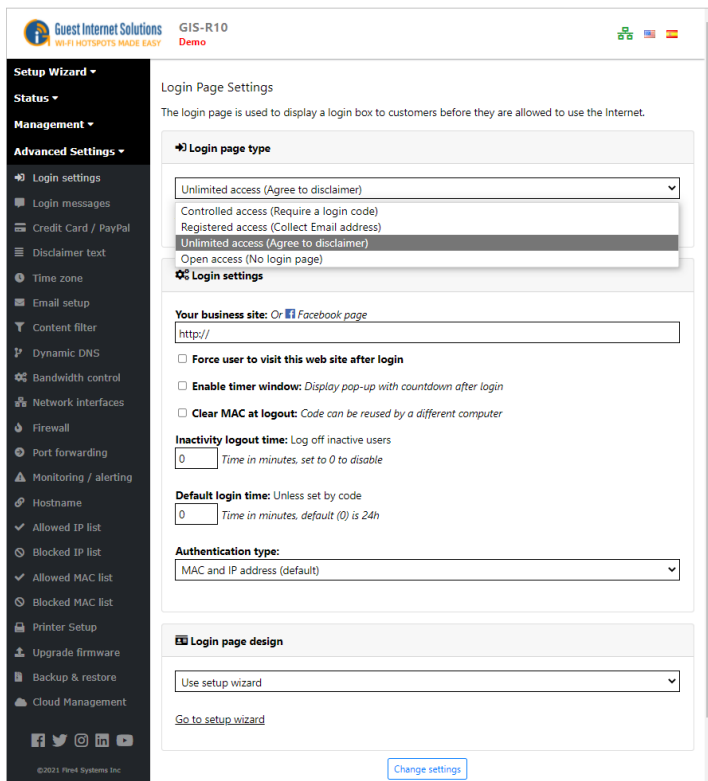
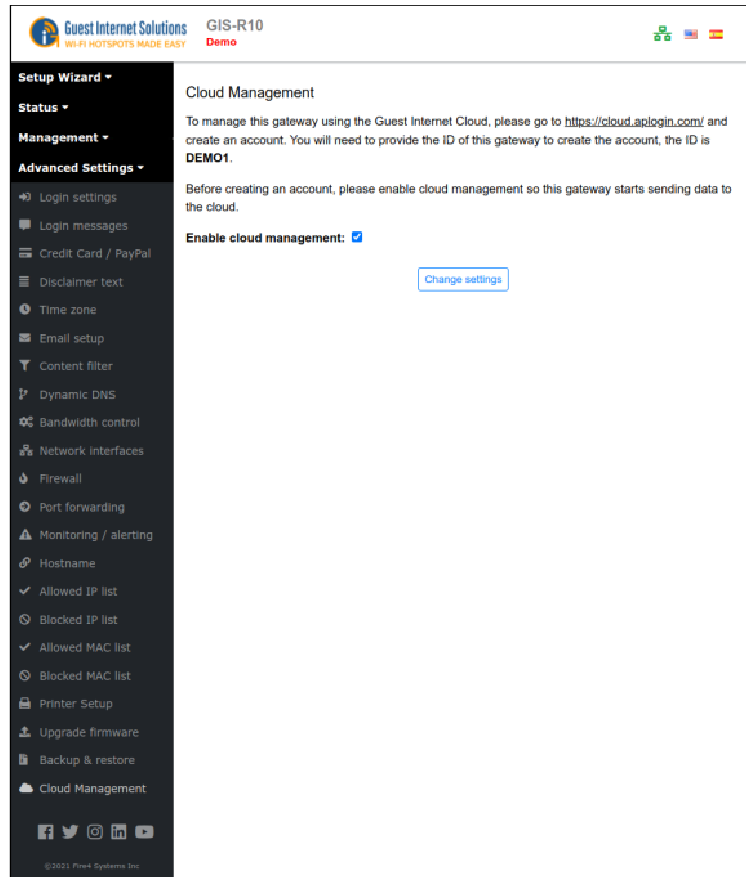
Username: admin

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.

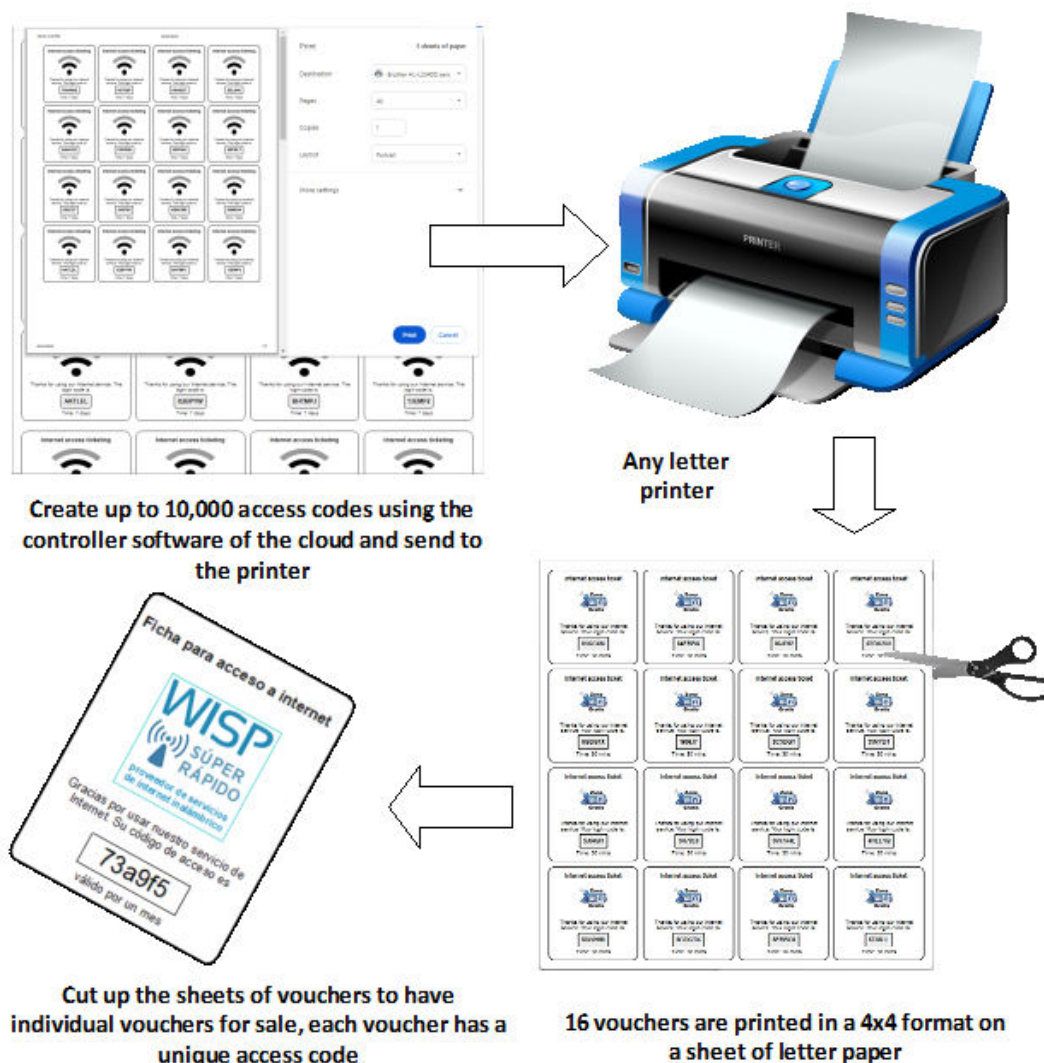
## Two methods of voucher access code printing

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.

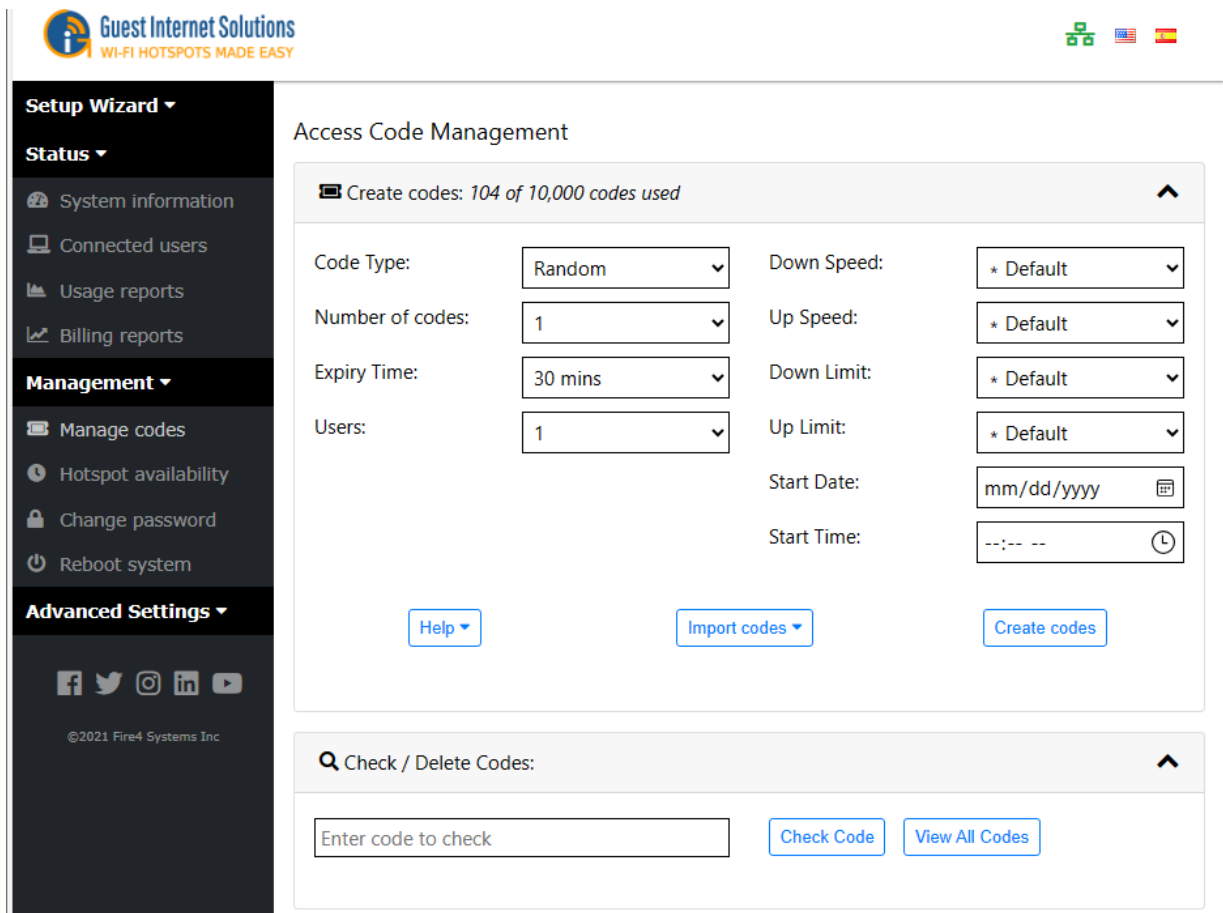


## Printing access code vouchers using the Guest Internet controller.

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 in the Guest Internet Solutions web interface. The left sidebar contains a navigation menu with sections: 'Setup Wizard', 'Status' (with links to System information, Connected users, Usage reports, and Billing reports), 'Management' (with links to Manage codes, Hotspot availability, Change password, and Reboot system), and 'Advanced Settings'. The main content area is titled 'Access Code Management' and shows a status bar indicating 'Create codes: 104 of 10,000 codes used'. Below this, there are two columns of settings. The left 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 right column includes 'Down Speed' (\* Default), 'Up Speed' (\* Default), 'Down Limit' (\* Default), 'Up Limit' (\* Default), 'Start Date' (mm/dd/yyyy), and 'Start Time' (--:-- --). At the bottom of the settings area are three buttons: 'Help', 'Import codes', and 'Create codes'. Below the settings area is a section titled 'Check / Delete Codes' with a search bar labeled 'Enter code to check' and two buttons: '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 ▾  
Number of codes: 100  
Expiry Time: 7 days ▾  
Users: 1 ▾

Down Speed: 2048 Kb/s ▾  
Up Speed: 512 Kb/s ▾  
Down Limit: ∞ Unlimited ▾  
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.

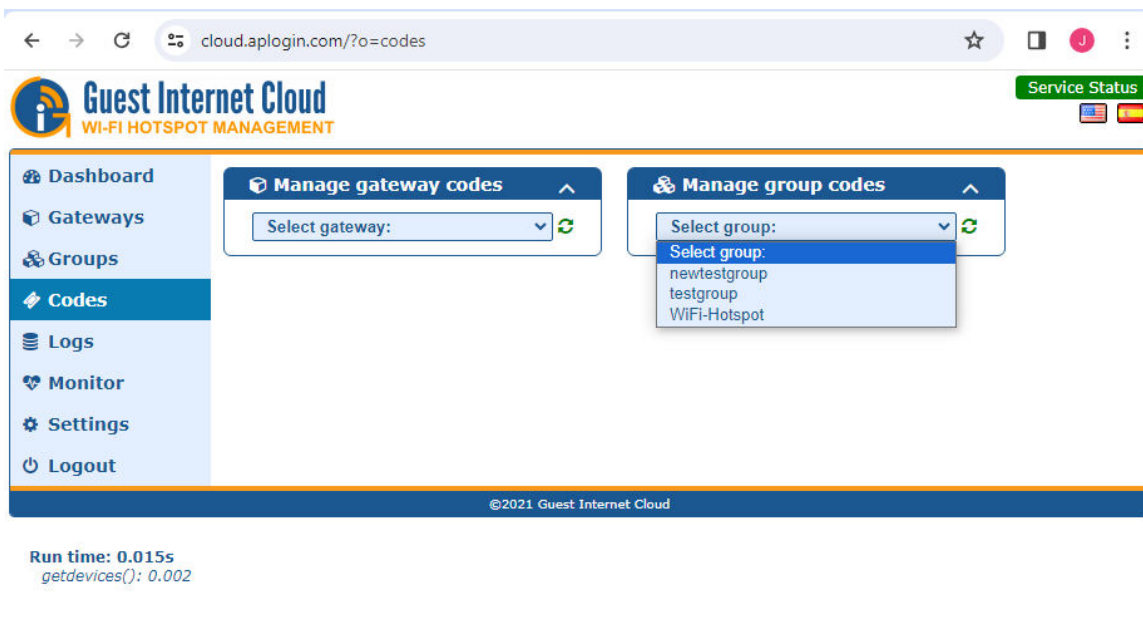
Then click the 'print' button to send to the printer.

## Print access code vouchers using your Guest Internet Cloud account.

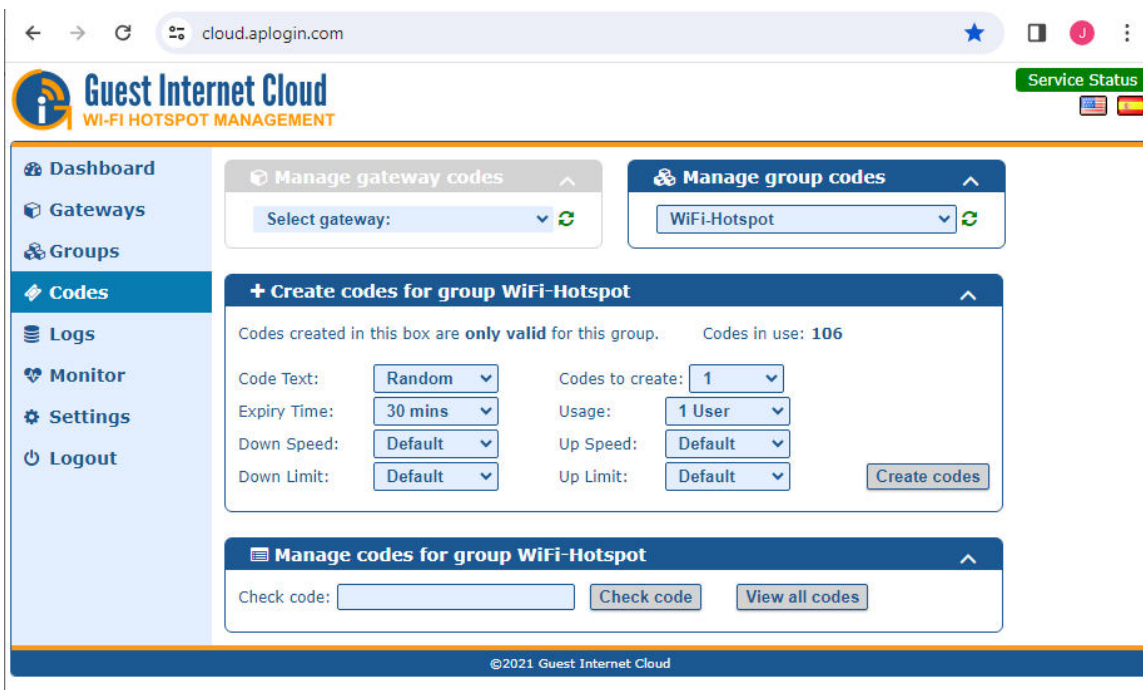
Connect your computer to the Internet and login to your guest Internet cloud account. A previous section described the process to create the Cloud account.

<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.

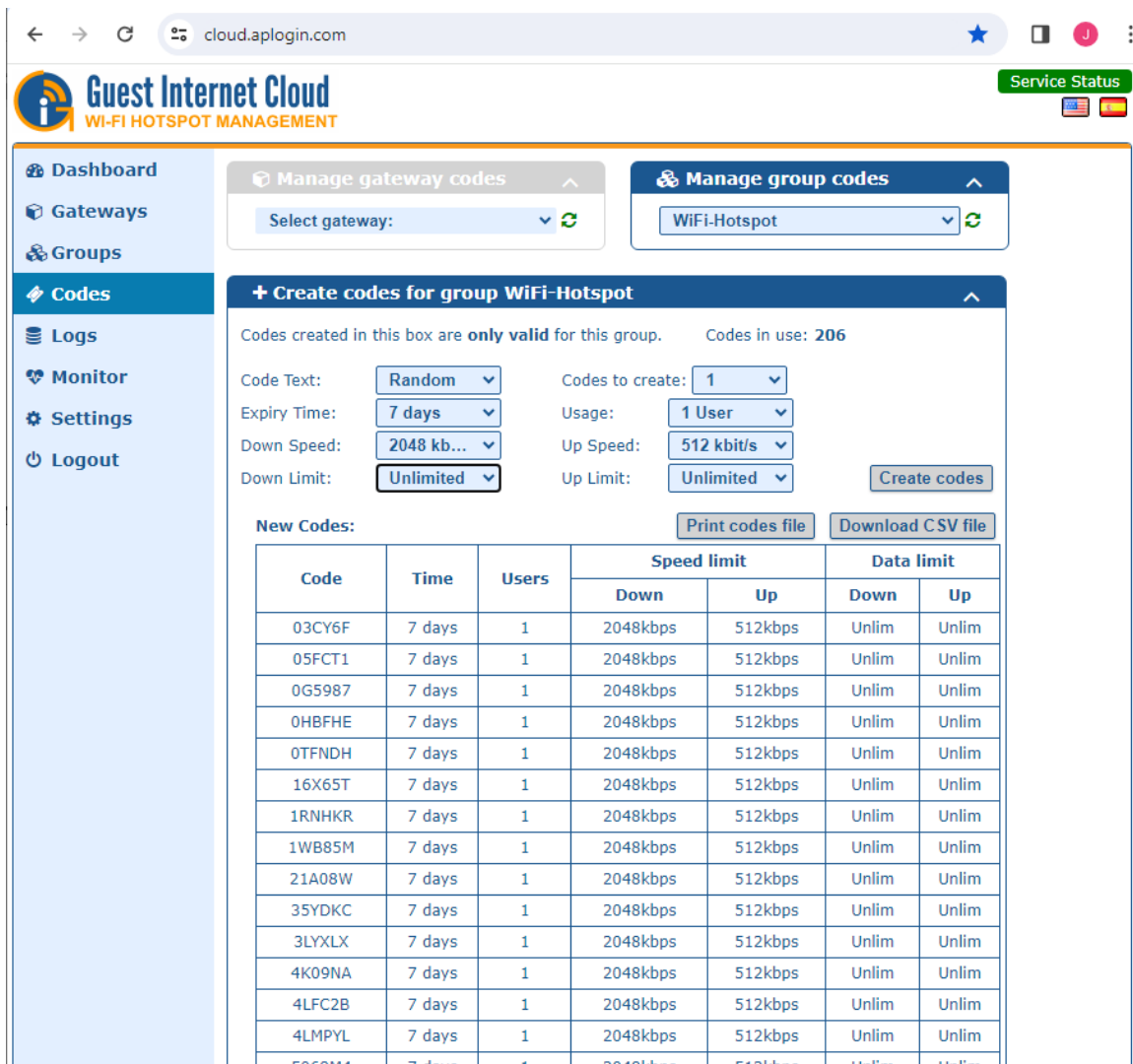
Select the number of users per code; this is set to 1 by default.

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'.



Service Status

Dashboard Gateways Groups Codes Logs Monitor Settings Logout

Manage gateway codes Select gateway: WiFi-Hotspot

Manage group codes WiFi-Hotspot

+ Create codes for group WiFi-Hotspot

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

Code Text: Random Codes to create: 1

Expiry Time: 7 days Usage: 1 User

Down Speed: 2048 kb/s Up Speed: 512 kbit/s

Down Limit: Unlimited Up Limit: Unlimited Create codes

New Codes: Print codes file Download CSV file

| 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 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. A print settings sidebar on the right includes options for 'Print' (7 sheets of paper), 'Destination' (Brother HL-L2340D series), 'Pages' (All), 'Copies' (1), 'Layout' (Portrait), and a 'More settings' dropdown. A 'Print' button is visible at the bottom right of the sidebar.

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

After printing the vouchers can be cut up and distributed.

