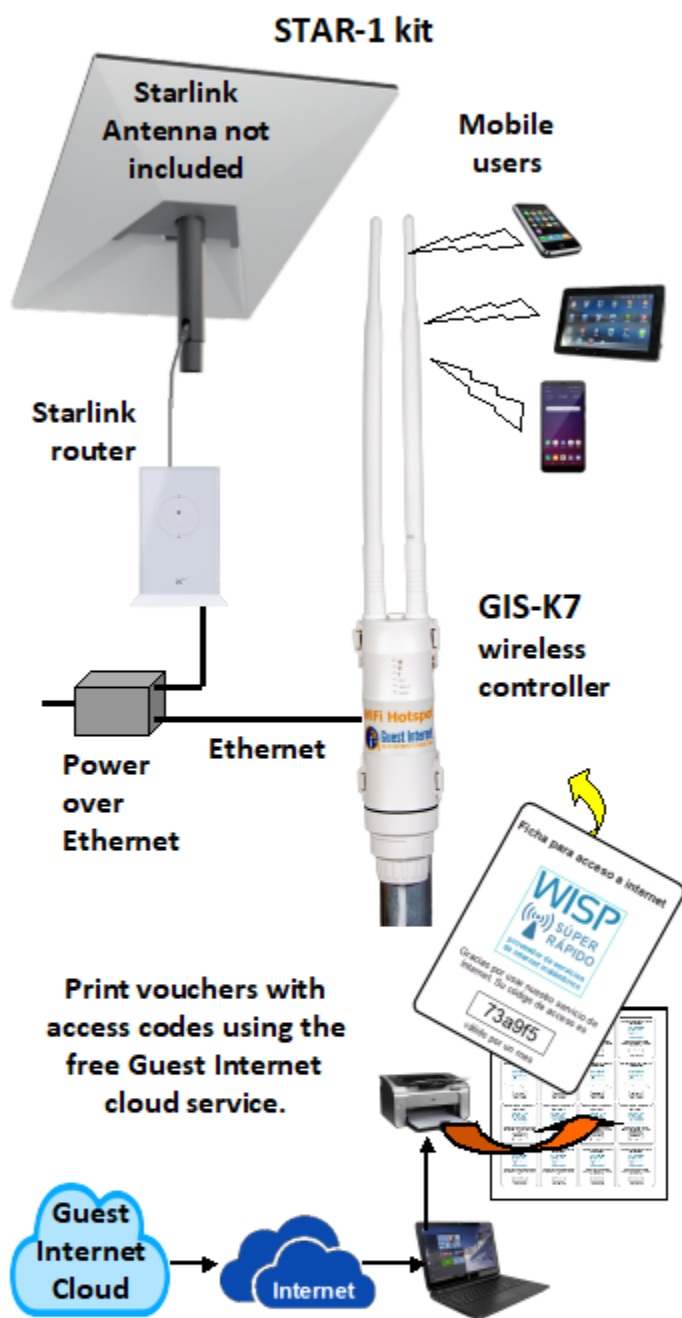


STAR-1: Community WiFi Internet kit

You provide the Starlink antenna for the Internet access and Guest Internet shares the service with your community.

STAR-1 is a WiFi Internet kit for mobile devices

- Share or sell an Internet service to a community using Guest Internet to manage the Starlink service.
- Everything you need in one kit to start providing a community Internet service using your 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.



Kit Contents:

GIS-K7 wireless Internet controller
Power over Ethernet supply
Ethernet cables
Free cloud account access
Installation instructions

The Starlink antenna is not included with the kit.

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For more information contact: 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.

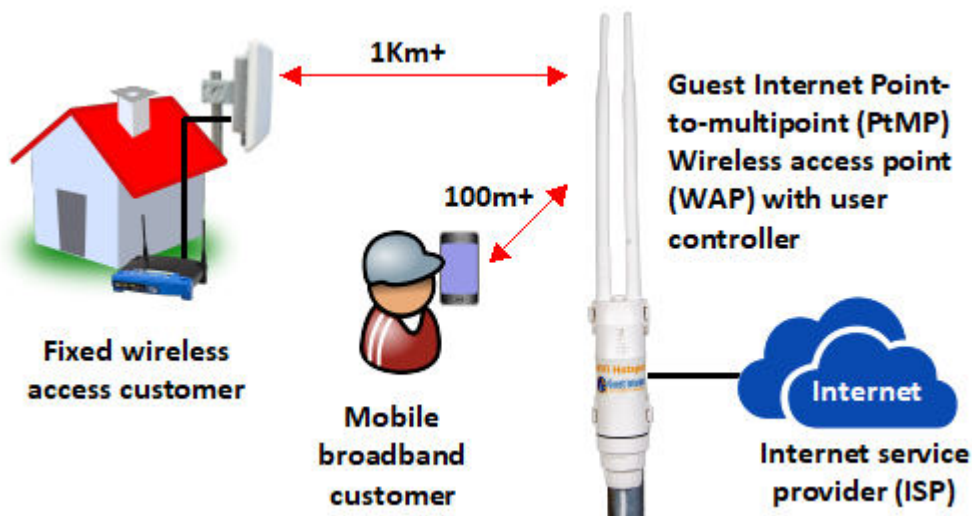
The network infrastructure that will provide the Internet service to community members has four parts.

- 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 (WAP). 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.

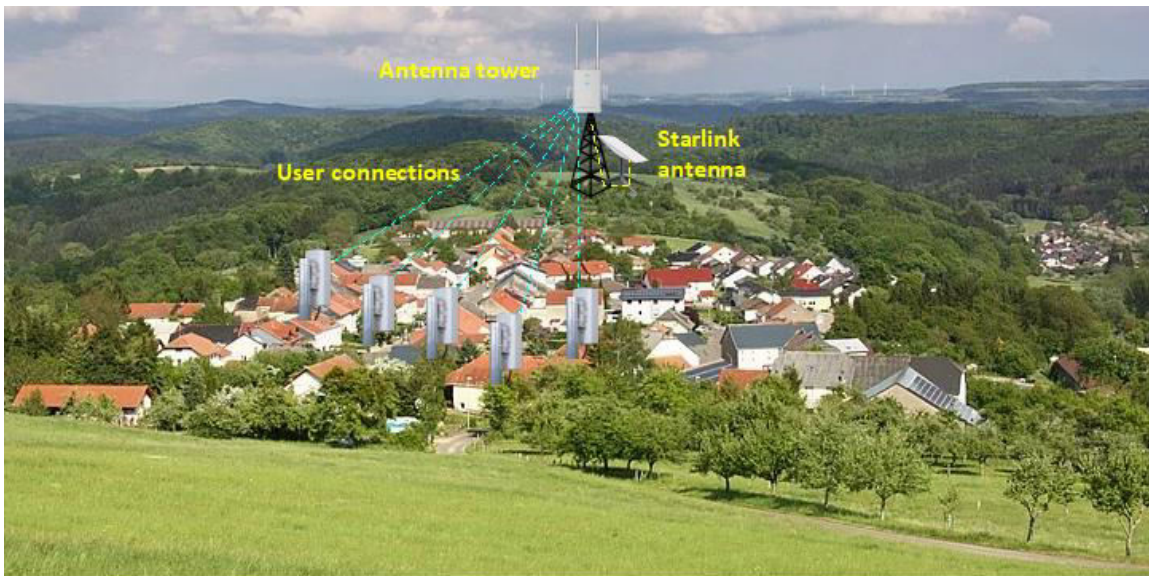
The network equipment described above is shown in the next diagram. All community Internet services that connect people using WiFi have this design.



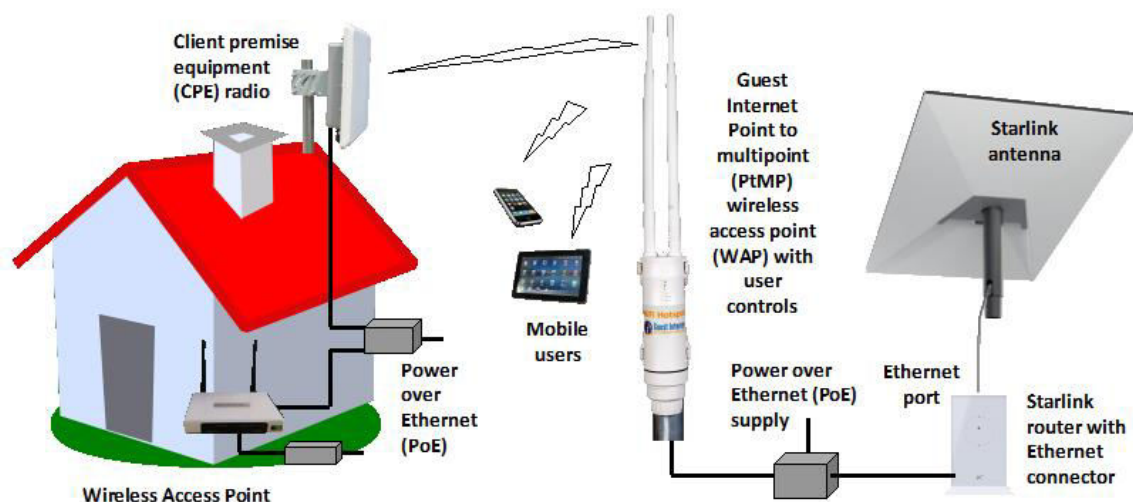
A community member who wishes to access the Internet must request or purchase a voucher that has an access code. The person who manages the Internet service prints the vouchers. The voucher is designed using the Guest Internet controller or cloud service and can include a logo plus text. Vouchers are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



A community Internet service is shown in the next figure. The PtMP antenna is installed on a high point in or close to the community so that all members of the community can see the antenna. The installation might be on a hill, a tall building or a tower. When Starlink is the ISP service then the Starlink antenna is installed close to the PtMP antenna also at a high point so that the Starlink antenna has 180 degree visibility of the sky. The PtMP antenna connects to the Guest Internet controller, which controls access to the Internet. The Guest Internet controller connects to the Starlink router. The antenna on each home points to the PtMP antenna.



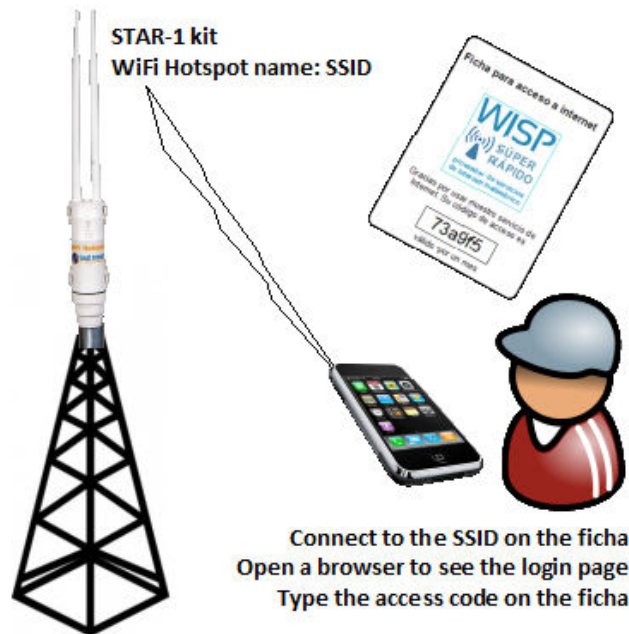
The installation with the Starlink antenna is shown in the next diagram.



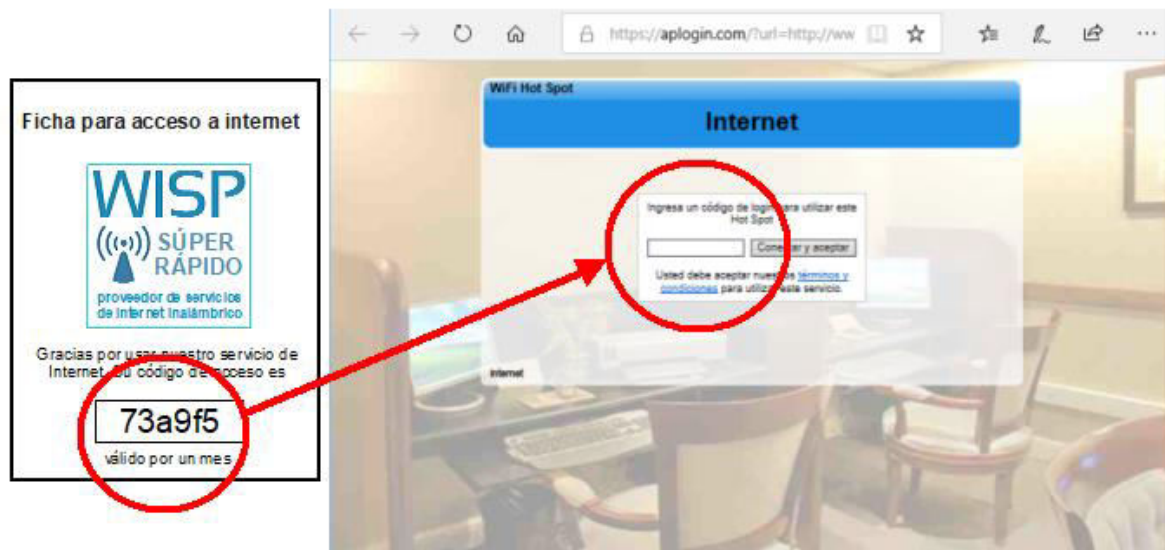
A location that is ideal for the antenna installation may not have power, and so the installation can be powered using solar panels. A solar panel with battery and charger system with a rating of 500 Watts is required to power the Starlink antenna, the Guest Internet controller and the PtMP antenna.

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.

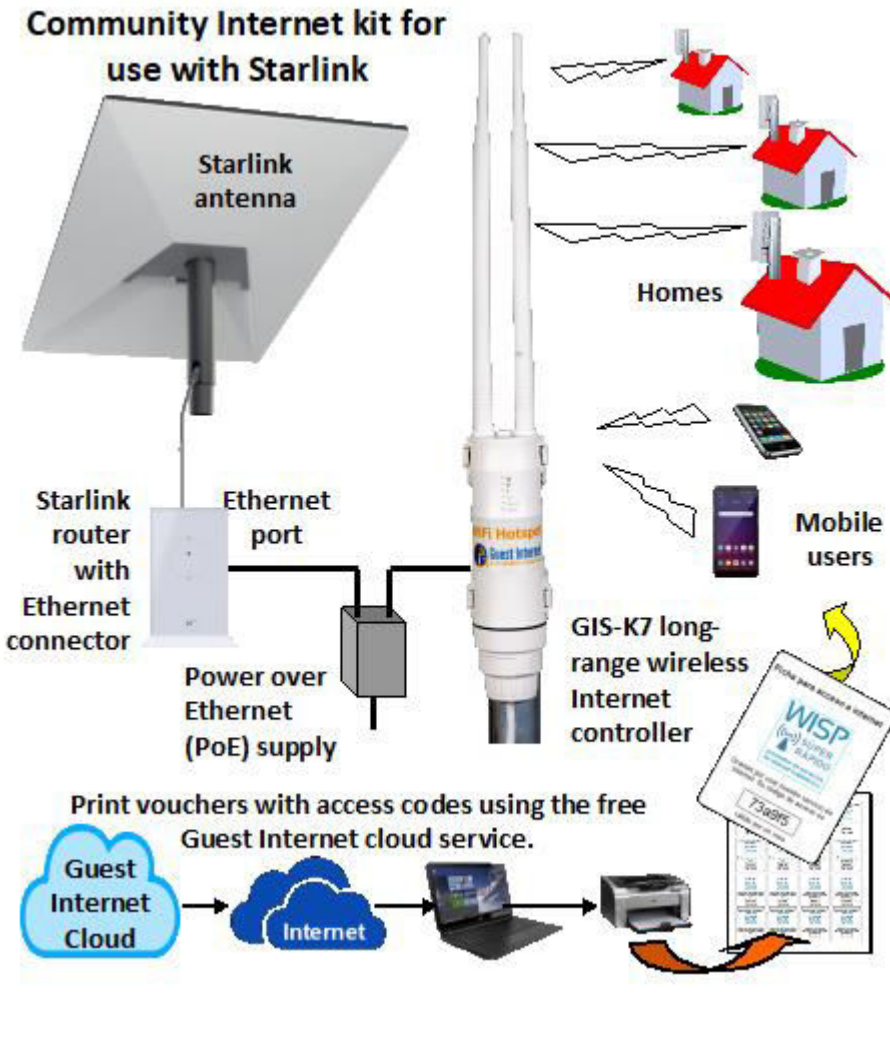


The code on the voucher is typed into the login page then the button is clicked. If the code is valid then the person gets access to the Internet.

Guest Internet K7 wireless controller product configuration

The GIS-K7 combines a wireless access point with an Internet controller that can share an Internet service such as Starlink between many people. The Internet service is shared by managing access to the Internet. Vouchers are printed by the Guest Internet products and issued to people who want to use the Internet service. Some community services sell vouchers to community residents.

The procedure to configure the GIS-K7 product is explained in the following pages.



Configure the GIS-K7 wireless Internet controller

The GIS-K7 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.

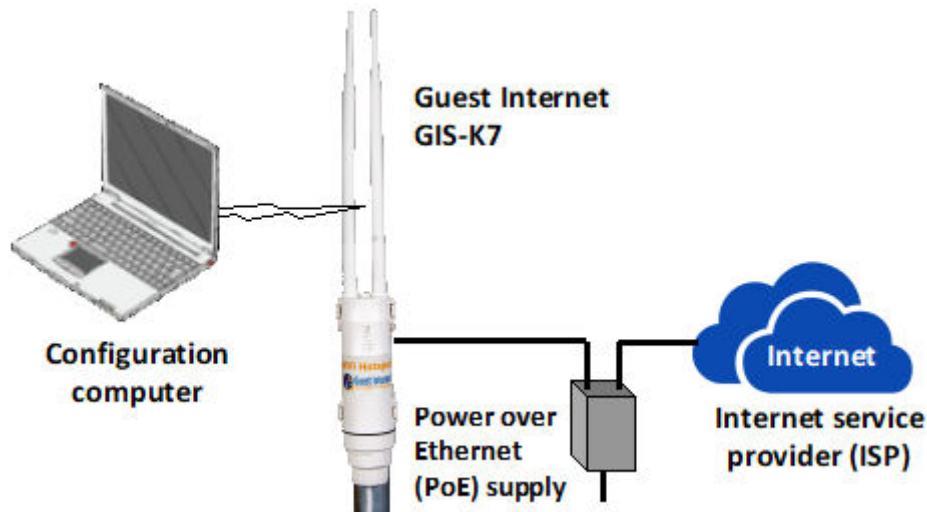
[https://www.guest-internet.com/pdfs/GIS_product_manual_\(English\)_1.1.24.pdf](https://www.guest-internet.com/pdfs/GIS_product_manual_(English)_1.1.24.pdf)

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.

Connect the GIS-K7 to the Internet and connect your computer to the GIS-K7 using the wireless as shown in the next diagram.



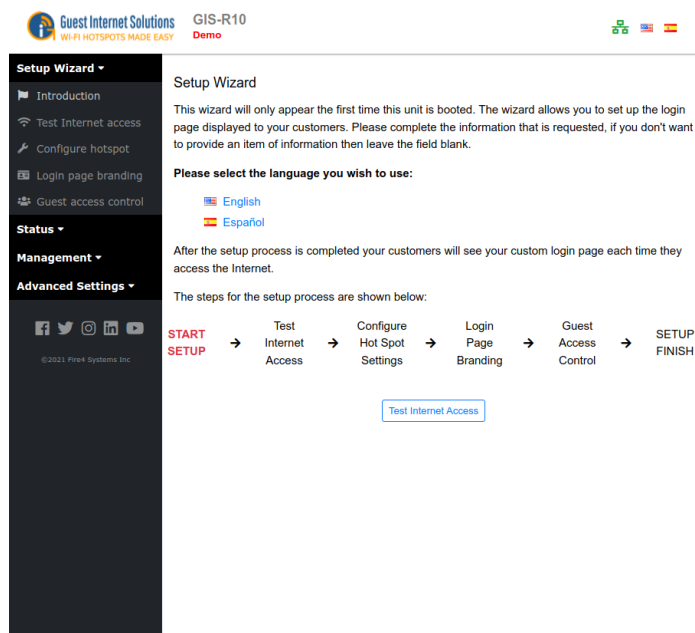
Connect your computer WiFi to the WiFi name (SSID) called 'Hot Spot'. No encryption key is needed.

Open the computer browser, type 'aplogin.com'

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

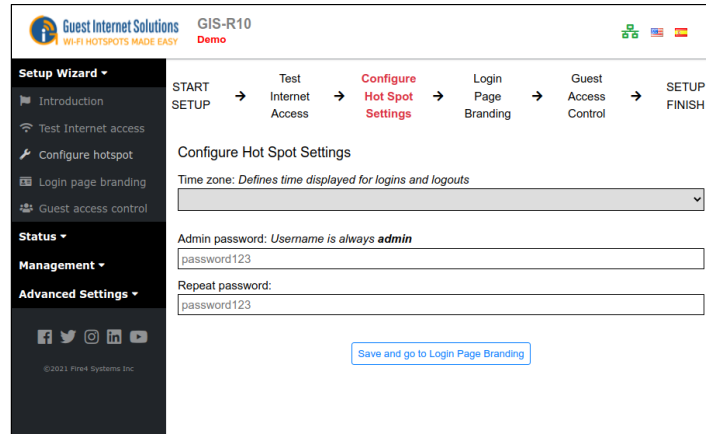
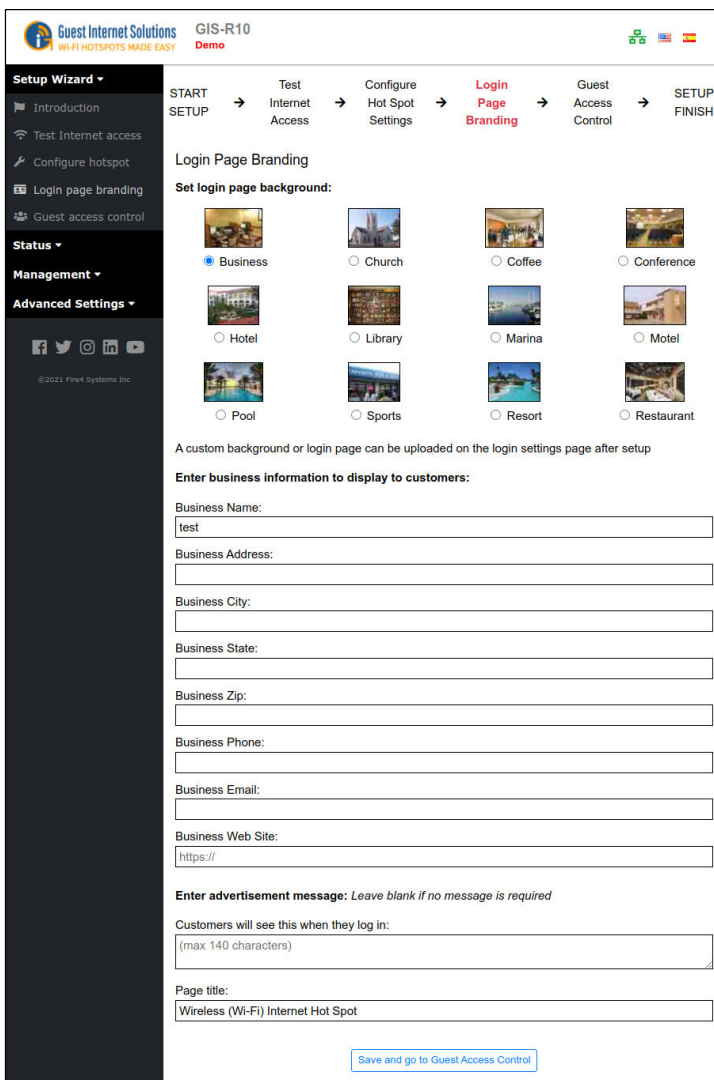
Select the language top right, English or Spanish

Click the button to proceed.



Verify that the GIS-K7 has an Internet connection, the figure at the top right must be green, if it is red then stop and get a good Internet connection. The setup procedure can only continue with a good Internet connection.

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

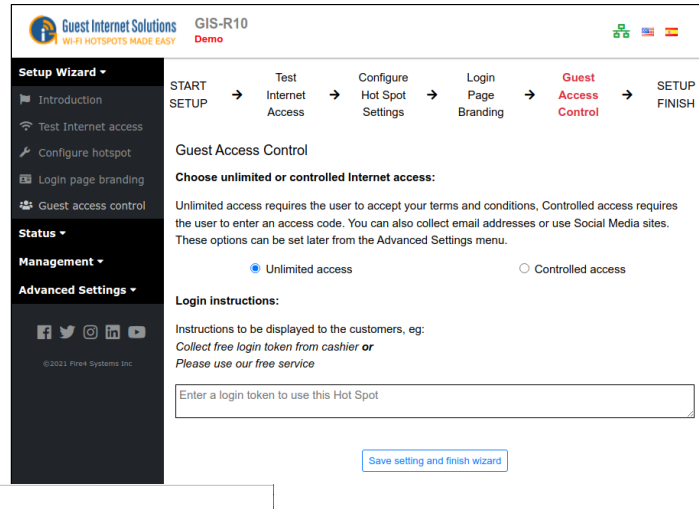
The next step is to configure the login screen. Select the background and enter the information requested.

Click the button at the bottom of the page.

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.



Guest Access Control

Choose unlimited or controlled Internet access:

Unlimited access requires the user to accept your terms and conditions, Controlled access requires the user to enter an access code. You can also collect email addresses or use Social Media sites. These options can be set later from the Advanced Settings menu.

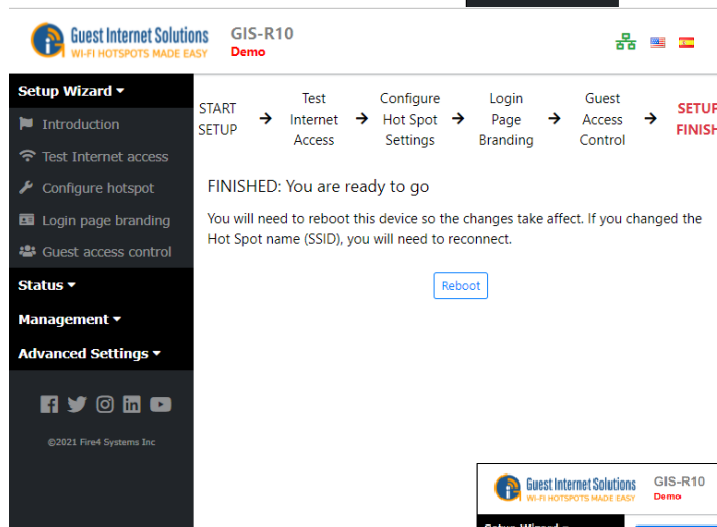
☒ Unlimited access ☐ Controlled access

Login instructions:

Instructions to be displayed to the customers, eg:
Collect free login token from cashier or
Please use our free service

Enter a login token to use this Hot Spot

Save setting and finish wizard



SETUP FINISH

FINISHED: You are ready to go

You will need to reboot this device so the changes take affect. If you changed the Hot Spot name (SSID), you will need to reconnect.

Reboot

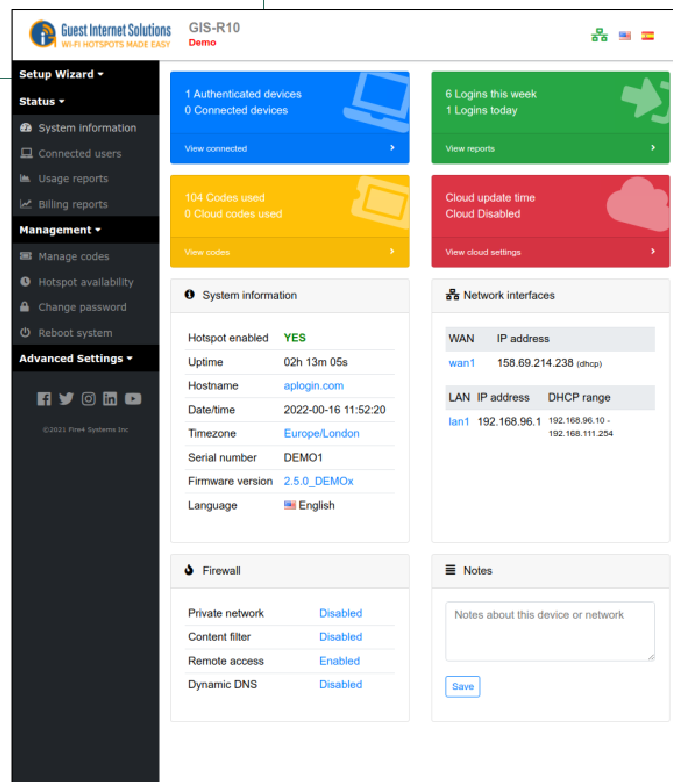
Click the button to complete
the setup process and reboot
the unit.

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

Aplogin.com

Username

Password



1 Authenticated devices
0 Connected devices
View connected

6 Logins this week
1 Logins today
View reports

104 Codes used
0 Cloud codes used
View codes

Cloud update time
Cloud Disabled
View cloud settings

System information

Hotspot enabled	YES
Uptime	02h 13m 05s
Hostname	aplogin.com
Date/Time	2022-00-16 11:52:20
Timezone	Europe/London
Serial number	DEMO1
Firmware version	2.5.0_DEMOx
Language	English

Network interfaces

WAN	IP address
wan1	158.09.214.238 (dhcp)

LAN	IP address	DHCP range
lan1	192.168.96.1	192.168.96.10 - 192.168.96.254

Firewall

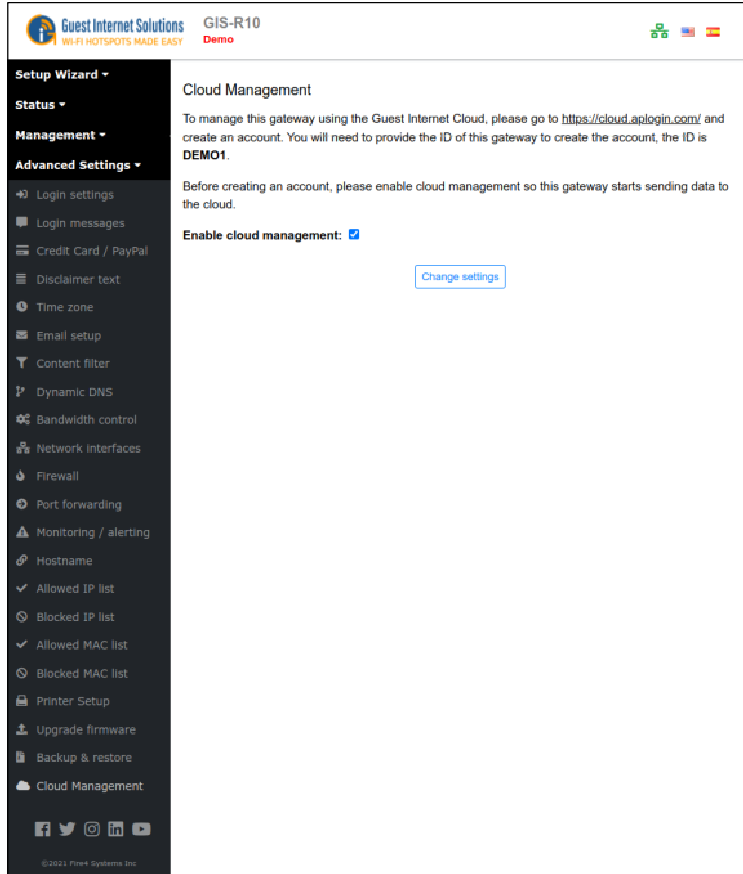
Private network	Disabled
Content filter	Disabled
Remote access	Enabled
Dynamic DNS	Disabled

Notes

Notes about this device or network

Save

Enable the GIS-K7 cloud management so that it can be assigned to a cloud account later.



Guest Internet Solutions GIS-R10 Demo

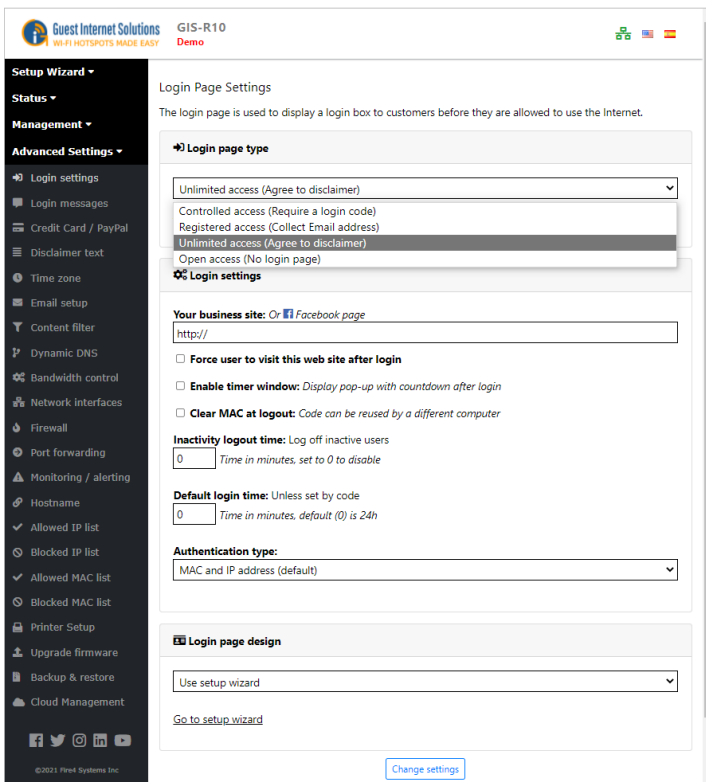
Cloud Management

To manage this gateway using the Guest Internet Cloud, please go to <https://cloud.aplogin.com/> and create an account. You will need to provide the ID of this gateway to create the account, the ID is **DEM01**.

Before creating an account, please enable cloud management so this gateway starts sending data to the cloud.

Enable cloud management: ☒

[Change settings](#)



Guest Internet Solutions GIS-R10 Demo

Login Page Settings

The login page is used to display a login box to customers before they are allowed to use the Internet.

Login page type

Unlimited access (Agree to disclaimer)

Controlled access (Require a login code)

Registered access (Collect Email address)

Unlimited access (Agree to disclaimer)

Open access (No login page)

Login settings

Your business site: Or [Facebook page](#)

[http://](#)

☐ Force user to visit this web site after login

☐ Enable timer window: Display pop-up with countdown after login

☐ Clear MAC at logout: Code can be reused by a different computer

Inactivity logout time: Log off inactive users

0 Time in minutes, set to 0 to disable

Default login time: Unless set by code

0 Time in minutes, default (0) is 24h

Authentication type:

MAC and IP address (default)

Login page design

Use setup wizard

[Go to setup wizard](#)

[Change settings](#)

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

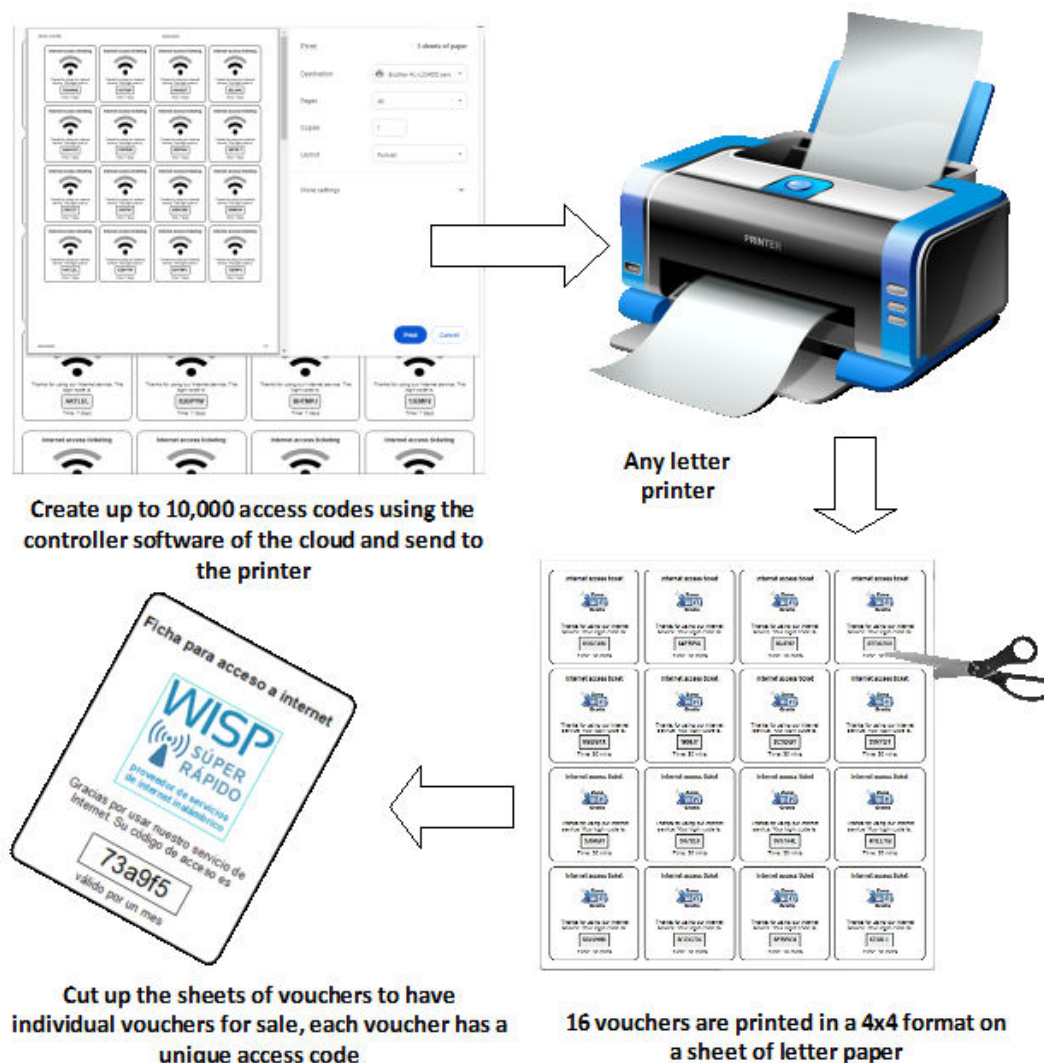
Two methods of voucher access code printing

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.

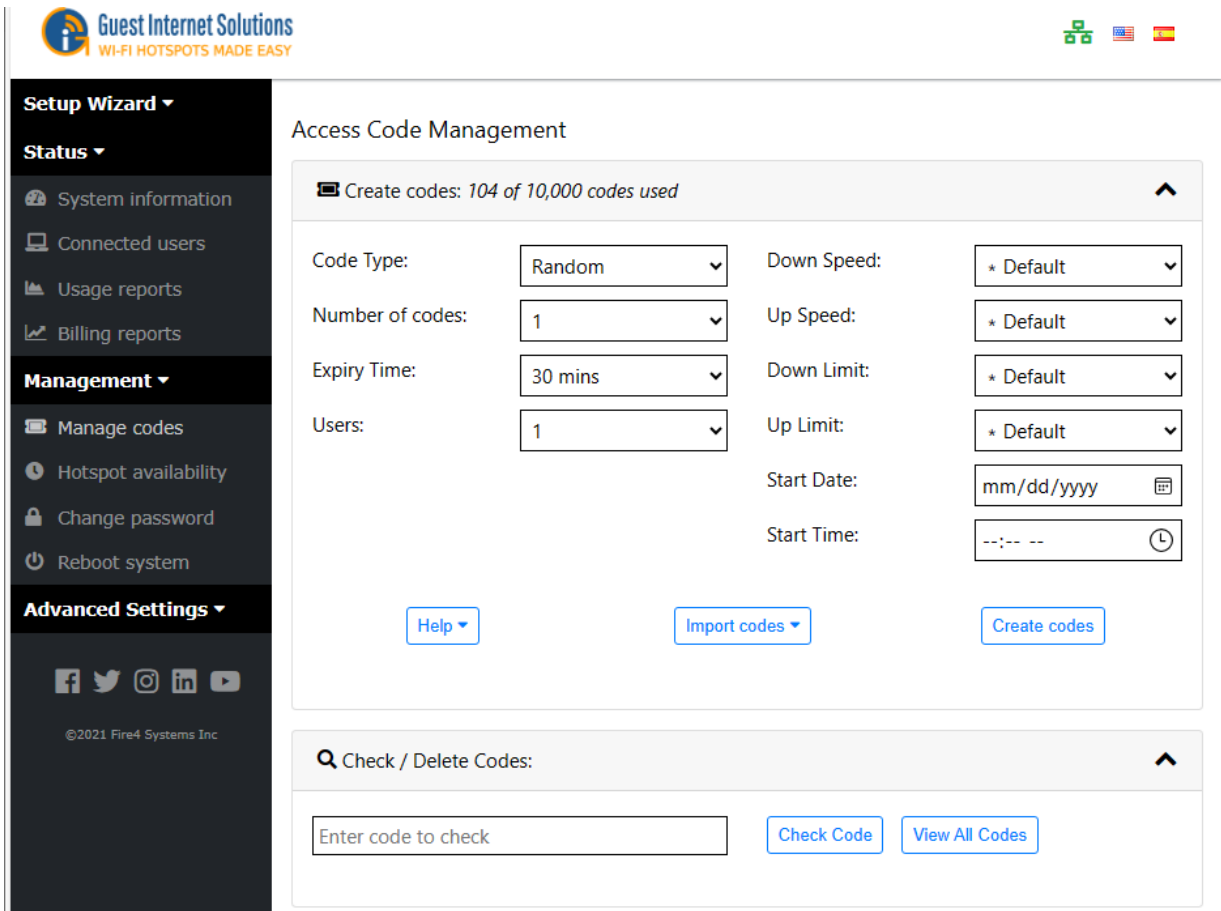


Printing access code vouchers using the Guest Internet controller.

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 of 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 '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' (set to * Default), 'Up Speed' (set to * Default), 'Down Limit' (set to * Default), 'Up Limit' (set to * Default), 'Start Date' (set to mm/dd/yyyy), and 'Start Time' (set to --:-- --). At the bottom of the settings area are three buttons: 'Help', 'Import codes', and 'Create codes'. Below the settings area is a section for '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 ▾

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.

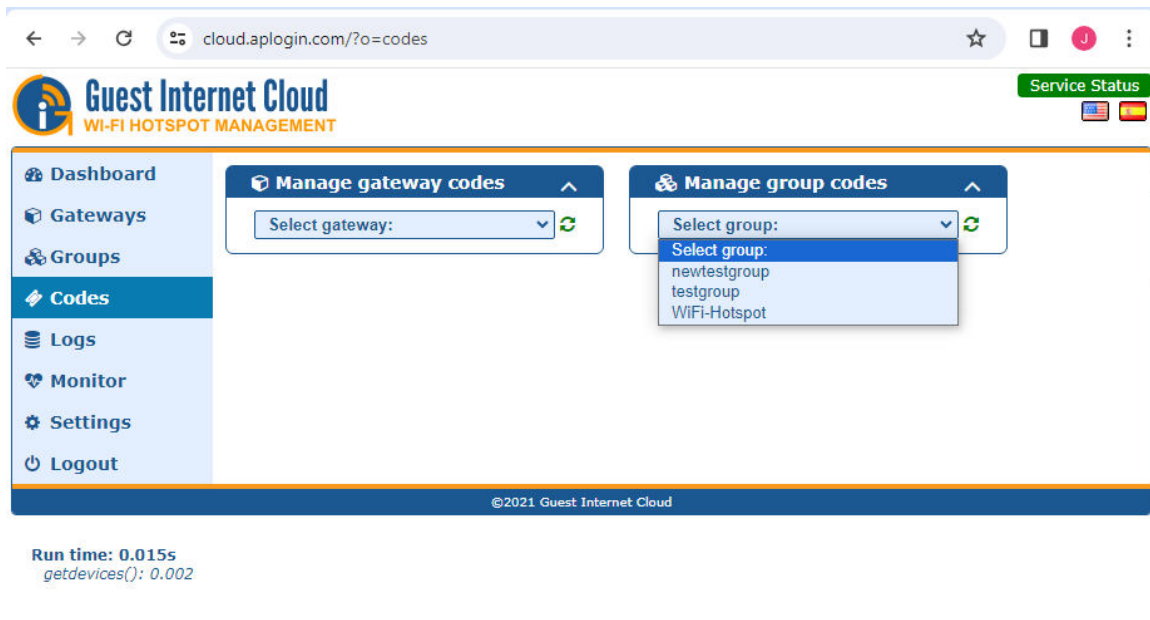
Then click the 'print' button to send to the printer.

Print access code vouchers using your Guest Internet Cloud account.

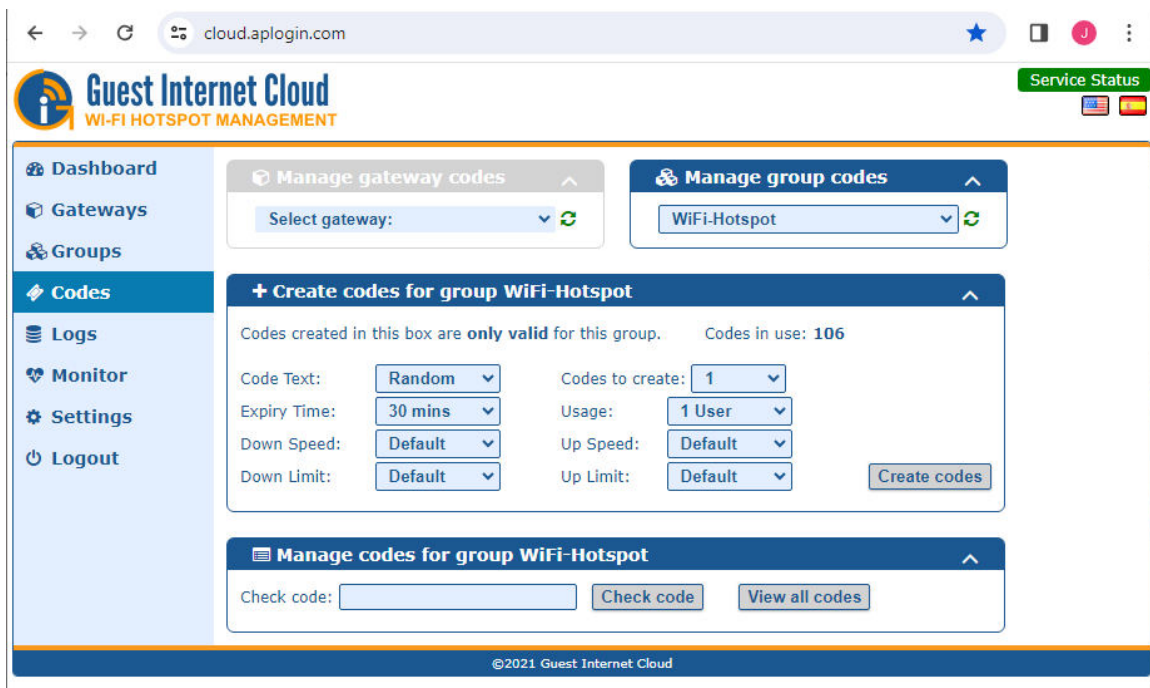
Connect your computer to the Internet and login to your guest Internet cloud account. A previous section described the process to create the Cloud account.

<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.

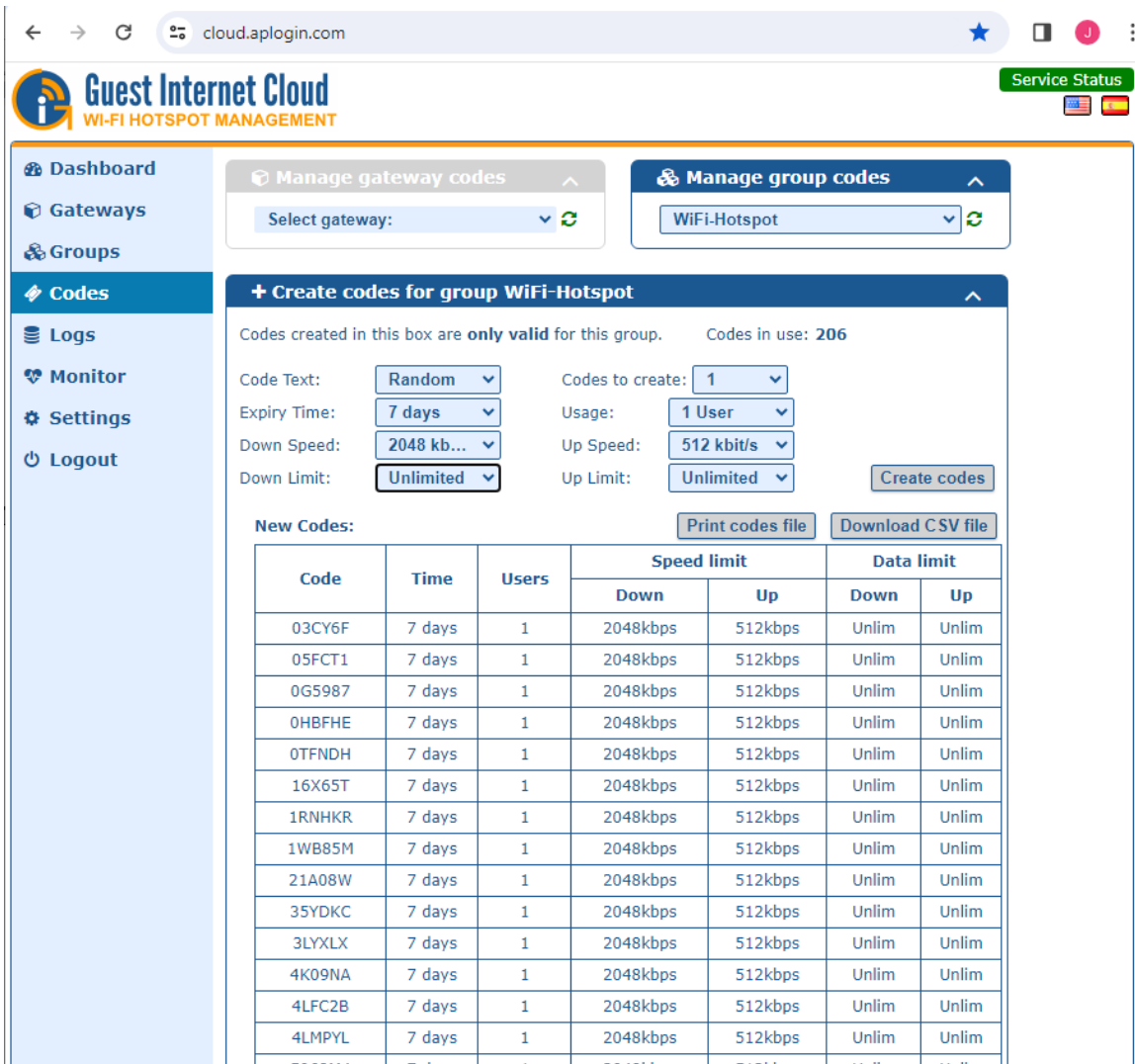
Select the number of users per code; this is set to 1 by default.

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'.



Guest Internet Cloud
WI-FI HOTSPOT MANAGEMENT

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 content area displays a 4x4 grid of 16 internet access tickets. Each ticket includes the 'Zona WiFi Gratis' logo, a thank you message, a unique login code (e.g., 83CY6F, 06FCT1, 0G9867, 0HBFHE), and a validity period of 7 days. A print settings panel on the right allows users to print 7 sheets of paper to a Brother HL-L2340D series printer, with options for pages, copies, and layout. A 'Print' button is visible at the bottom right of the panel.

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

After printing the vouchers can be cut up and distributed.

