

ANTAMEDIA HOTSPOT SOFTWARE

CONTROL WIFI AND ENGAGE YOUR CUSTOMERS



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1 Introduction

1.1 What is Antamedia HotSpot ?

Antamedia HotSpot is a WiFi Hotspot management software which helps you in controlling and billing your customers for the Internet usage. Antamedia HotSpot does not require any client software installations. It uses captive portal technology to display login page in the customer browser. Upon connecting to your network (using WiFi or cable), customer will be prompted to enter valid username and password to get the Internet access. After successful login, your customer will see the remaining time and bandwidth quota, expiration date and other relevant info. HotSpot keeps track of customer usage and shows warning message when the account is due to expire, helping a customer to refill the account and continue using your service without interruption. Software includes billing, statistics and reporting with many useful features. It is hardware independent and you can use any type of access points, routers, switches and other equipment to control your Internet.

1.2 How Can It Help You ?

WiFi is a top amenity in today's hospitality. Offering free WiFi or high-speed Internet increases occupancy and guest satisfaction. With Antamedia HotSpot you will be able to:

- create free WiFi or offer higher speeds for a fee or to selected members
- easily create separate logins for lobby, rooms, beach or restaurants with different look and access level - free or paid
- integrate with your PMS system to automate Internet access. Guest will login with a room and name
- control and monitor Internet access in your guest rooms for any wired and wireless device
- provide reliable wireless Internet access in your restaurant, lobby and conference rooms
- maintain secure access to the Internet resources outside the hotel, like on golf courses or by the hotel pools.

Highly customizable user accounts are the major advantage of our solution. You can create limited accounts by time and bandwidth quota, configure daily time limit, number of daily logins, number of simultaneous logins, usage schedule (happy hour, nighttime, daytime, weekends ...) etc. In addition, it's very easy to offer paid Internet access with higher speeds, quota or unlimited daily or monthly access.

Flexible architecture makes it suitable for different locations like restaurants, coffee shops, airports, cruise ships, train stations, motels... Customers can sign-in online and pay using credit card or tickets can be printed in advance and sold by front desk staff, receptionist, bartender, cybercafe operator, or by a vending machine. Antamedia does not collect any fees, full revenue goes to you.

Antamedia HotSpot has advanced architecture which allows both simple and very large networks. You can start offering WiFi services and grow slowly by adding new access points, connect different city areas, one step a time, making you an Internet Service Provider. All accounts may be stored in a central database which is included free of charge. Your customers will be able to connect to any WiFi HotSpot with their account.

2 Requirements

In order to control wireless users, Hotspot software has to be set up on a gateway computer in your network. For minimal Hotspot configuration you need 3 devices:

- Hotspot gateway PC
- Internet modem/router
- Wi-Fi device for providing access to users (Wi-Fi router or access point)

System requirements for Hotspot gateway PC:

CPU: 2 gigahertz (GHz) or faster 64-bit (x64) processor

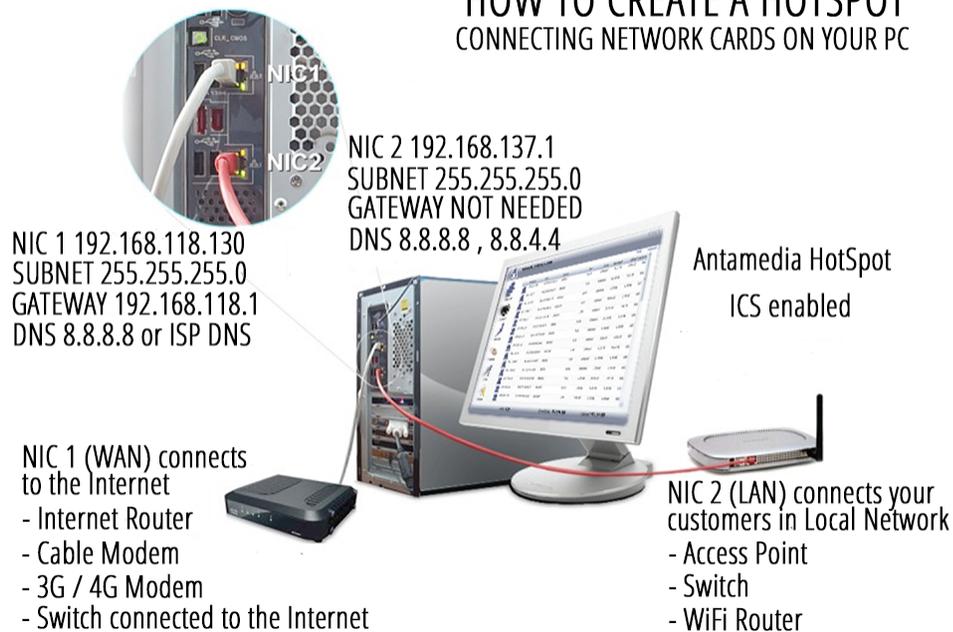
RAM: 4 gigabyte (GB)

NIC: 2 network interface cards, for maximum performance we recommend using Intel PRO/1000 (EXPI9400PTBLK) network adapters

OS: Windows Server 2003, Server 2008, Server 2012, XP, Vista, Windows 7, Windows 8.1, Windows 10. We recommend Windows Server OS with DHCP and RRAS roles configured within OS.

We strongly encourage you to install HotSpot on SSD drive because it can significantly improve software performance. Most modern computers have one network card built in, the other one you will need to purchase and install to computer's PCI slot. Please connect one network card to the Internet router and other one to Wi-Fi device that your customers will use to access Hotspot. If you plan to use a Wi-Fi router to provide access for customers, please connect it to Hotspot server PC using LAN (not WAN) port. Please note that the Hotspot server network cards cannot be bridged. Hotspot (Internal) network should work in a different IP range than the External network. Please refer to the diagrams for the example IP settings.

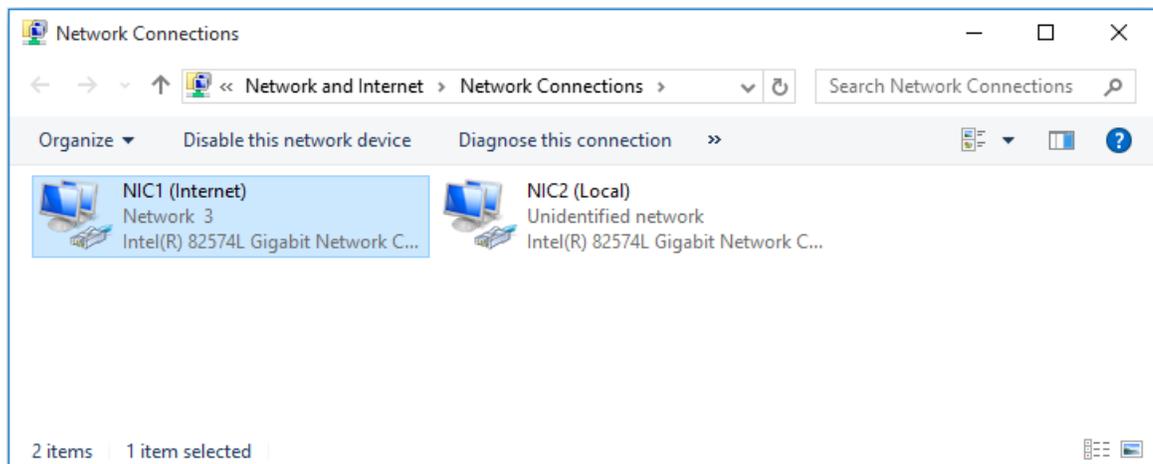
HOW TO CREATE A HOTSPOT CONNECTING NETWORK CARDS ON YOUR PC



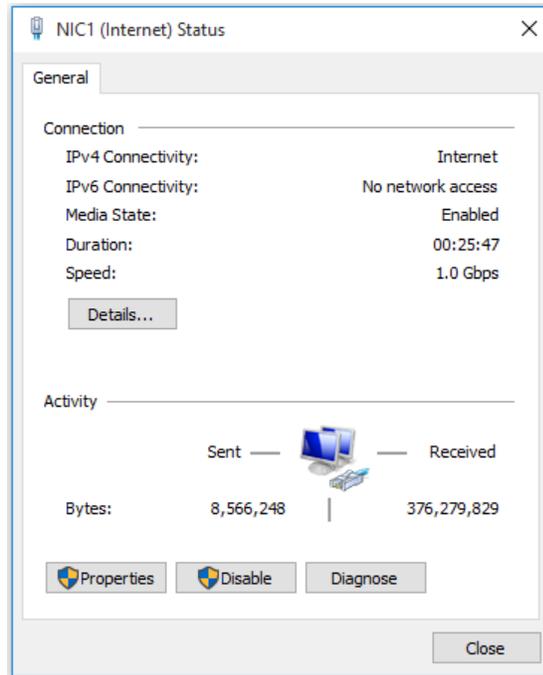
2.1 Pre-installation Steps

Before installing Antamedia HotSpot software, please ensure that the following conditions are met:

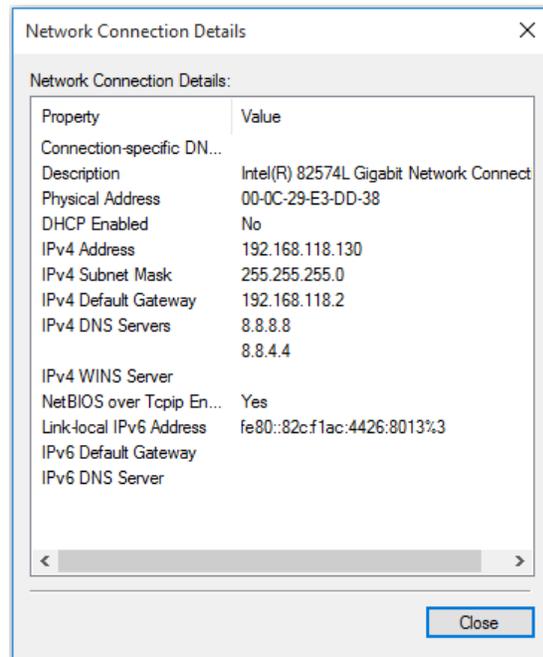
- ✓ Windows account on which software will be installed and used must have **administrative** privileges.
- ✓ Windows **User Account Control** is set to Never Notify level.
 - Go to Windows Control Panel – User Accounts screen
 - Click Change User Account Control settings link
 - Move the slider to Never Notify level and click OK
 - Restart the computer to apply changes
- ✓ Windows **Smart Screen** is turned off.
 - Go to Windows Control Panel - Security and Maintenance screen.
 - Click Change Windows Smart Screen settings
 - In new window select "Don't do anything (turn off Windows Smart Screen)" and press OK
 - Restart the computer to apply changes
- ✓ Windows **Defender exclusions** are set.
 - Go to Windows Control Panel - Windows Defender and click Settings.
 - Exclusion section press "Add an exclusion" to exclude C:\Antamedia folder.
 - Restart the computer to apply changes
- ✓ **Static IP address** is configured **on NIC1**, the network card connected to the Internet router/modem.
 - It is recommended to set same IP address that is already assigned dynamically by router.
 - To see which IP NIC1 has currently assigned, go to Windows Control Panel - Network and Sharing Center screen
 - Click Change adapter settings link and double click the NIC1 (Internet) network adapter



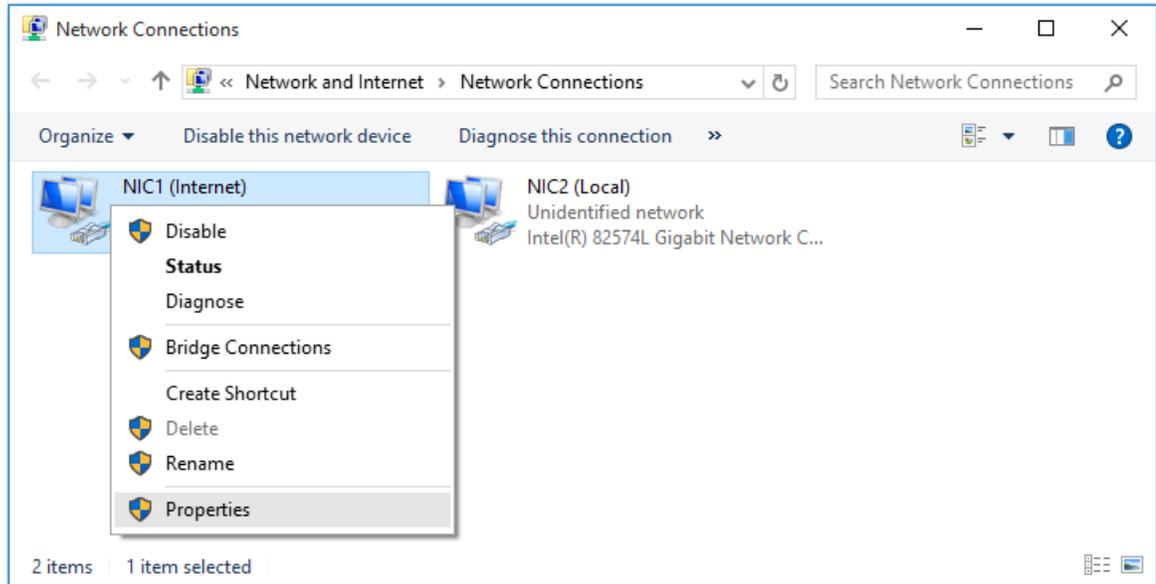
- From General tab press on Details button.



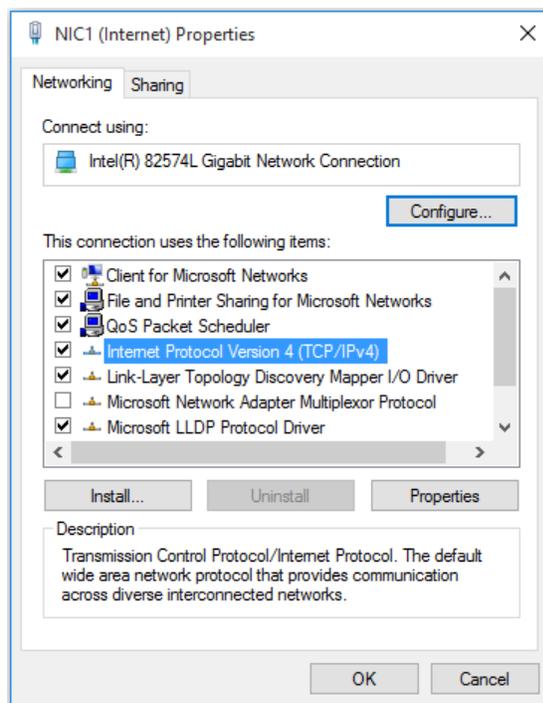
- Here you will see all current network connection details that you need to set as static



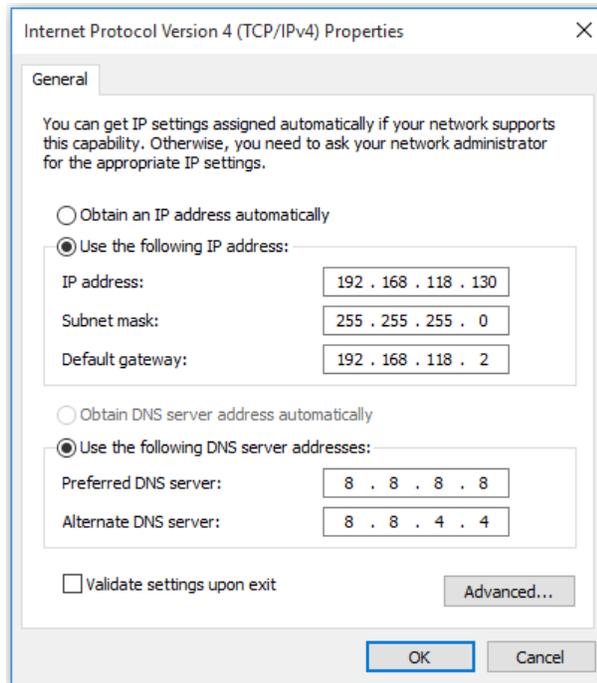
- After that go to Windows Control Panel – Network and Sharing Center screen.
- Click Change adapter settings link.
- Right-click on NIC1 (Internet) and select Properties from menu.



- Select Internet Protocol Version 4 (TCP/IPv4) and click Properties button.



- Click Use the following IP address radio button and enter details that you get from ipconfig previously



- Enter IP address (e.g. 192.168.118.130)
- Click in Subnet Mask field, value will be set automatically based on IP address, be sure that is same as in Network Connection Details
- IP address of the default gateway (IP of the Internet router).
- Enter DNS addresses, it is recommended to use DNS addresses of your ISP or public DNS service such as Google (8.8.8.8, 8.8.4.4).
- Click OK and close all dialog windows

✓ **Static IP address** is configured on **NIC2**, the network card connected to your internal network.

Please note that for this card you need to configure IP address (e.g. 192.168.9.1) and subnet mask (e.g. 255.255.255.0) but not Gateway IP

- ✓ There are no applications running on gateway PC that are using port 78, 80, 81, 82, 443, 463, 614, 12010, 1700, 1812, 1813 (IIS, proxy software).
- ✓ Configure computer to act as a gateway in your network using:
Windows Internet Connection Sharing, or
Routing and Remote Access with DHCP Server role , or
HotSpot NAT.
Setup instructions are available in our guide: <http://www.antamedia.com/download/hotspot-setup-guide.pdf>

How to configure DHCP for more than 254 clients ?

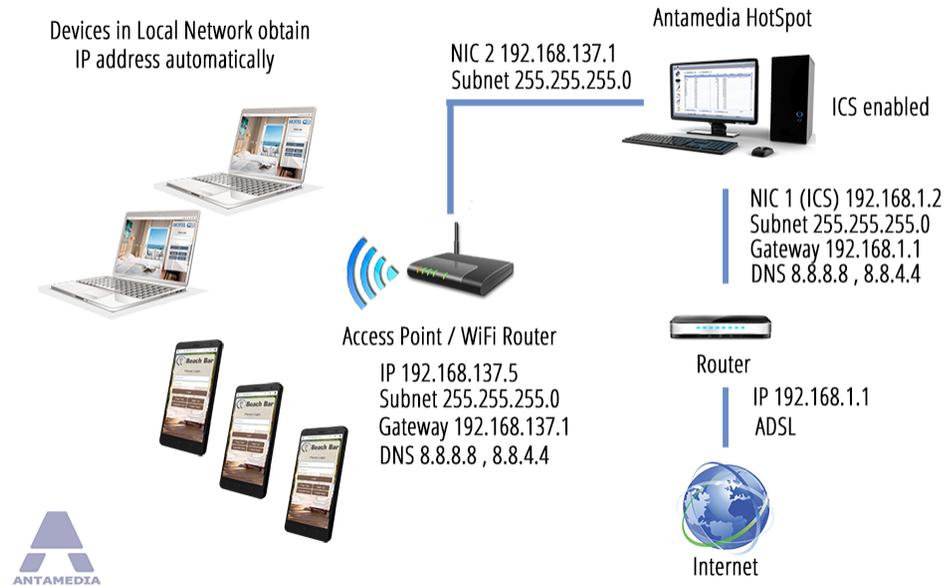
Internet modem/router cannot be used as DHCP server for your local network clients. DHCP server must be configured only for the local network. Windows 7, Windows 8.1 and Windows 10. DHCP Server can not provide more than 253 IP addresses for local network. If you want to use more than 253 addresses you can set it from Windows Server 2003, Windows Server 2008 or Windows Server 2012 DHCP Server role. Also, you will need to set subnet mask which will give you this ability. Be sure that you prepare all network devices on local network to use the same subnet mask. Here are some examples

IP range (network - broadcast)	Subnet Mask	IP Quantity
192.168.137.0 - 192.168.137.255	255.255.255.0	256
192.168.136.0 - 192.168.137.255	255.255.254.0	512
192.168.136.0 - 192.168.139.255	255.255.252.0	1024
192.168.136.0 - 192.168.143.255	255.255.248.0	2048
192.168.128.0 - 192.168.143.255	255.255.240.0	4096
192.168.128.0 - 192.168.159.255	255.255.224.0	8192
192.168.128.0 - 192.168.191.255	255.255.192.0	16384
192.168.128.0 - 192.168.255.255	255.255.128.0	32768
192.168.0.0 - 192.168.255.255	255.255.0.0	65536

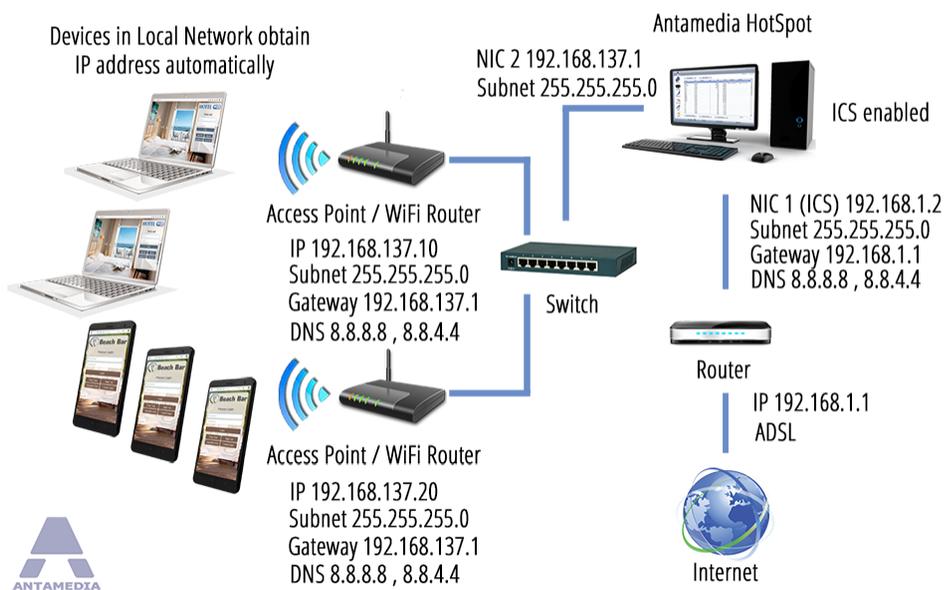
2.2 Network Topology Examples

Here you can see several network topology examples that can give you better insight into how you should set switches, access points and routers on a local network in order to control it from HotSpot gateway PC.

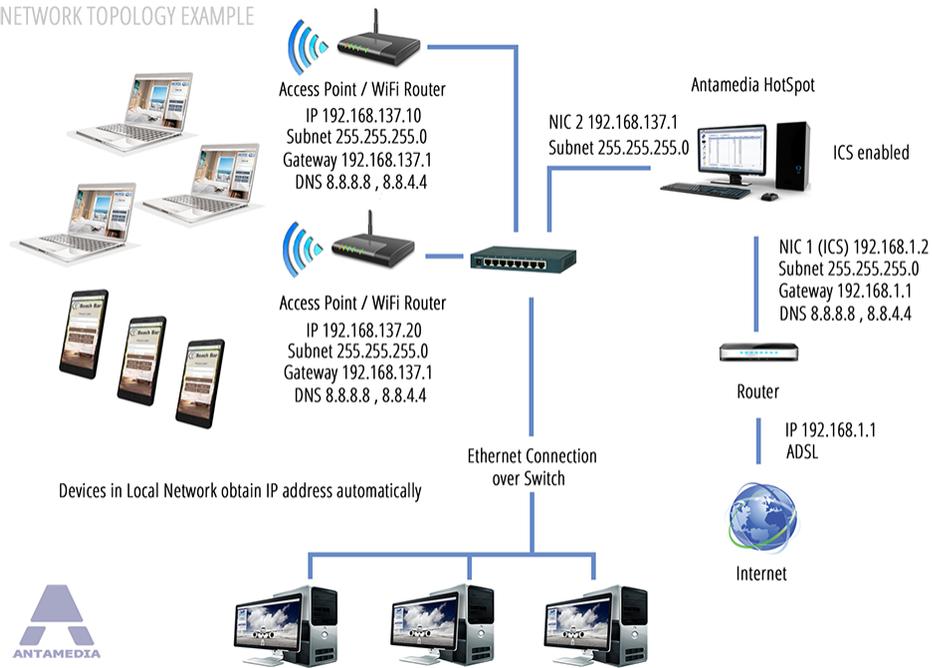
NETWORK TOPOLOGY EXAMPLE



NETWORK TOPOLOGY EXAMPLE



NETWORK TOPOLOGY EXAMPLE



3 Network Configuration

3.1 Network Setup

Network Setup page shows the following options:

Network Interface 1	Network interface which connects to your Internet router, modem, 3G-4G modem etc.
Network Interface 2	Network interface which connects HotSpot to your client network
Autostart HotSpot	Automatically starts HotSpot control when program starts
Maximum users	Maximum number of users connected at the same time
Inactivity logout	Automatically disconnects a user after specified time of inactivity
DNS Redirector	Redirect devices and computers from local network to Internet based on DNS
Start	Press Start button to activate HotSpot control
Stop	Press Stop button to deactivate HotSpot control
Save	Save network settings



The first step in setting up the HotSpot is sharing Internet connection. This step is required in order to allow all customers in your network to access the Internet.

There are several ways to share the Internet connection. It can be done by:

- Using **Antamedia HotSpot NAT (Network Address Translation)**. Setup Wizard will help you to configure NAT and give you sample how to configure connections of computers in your network

- Using **Microsoft Internet Connection Sharing** available in Windows operating system
- Using **Routing and Remote Access** available in Windows Server editions

After you configure Internet sharing, please select **Network Interface** which connects your network to the HotSpot. On the selected network interface HotSpot will activate the integrated Web Server which is used to display all pages to customers, like login, logout, info and welcome pages. By changing the network interface, **IP address** will be automatically filled in. Please enable **Autostart** and press the **Save** button to store your settings.

The last option to configure is **DNS redirector**. Please type here one of the DNS addresses specified by your Internet service provider, or any other working DNS server. This option helps in cases when customer has incorrectly configured DNS address. HotSpot will redirect client to the correct address and DNS query will be resolved.

The last step is clicking on **Start** button for activating HotSpot engine. From that moment your customers should see login page in their browsers in attempt to connect to the Internet.

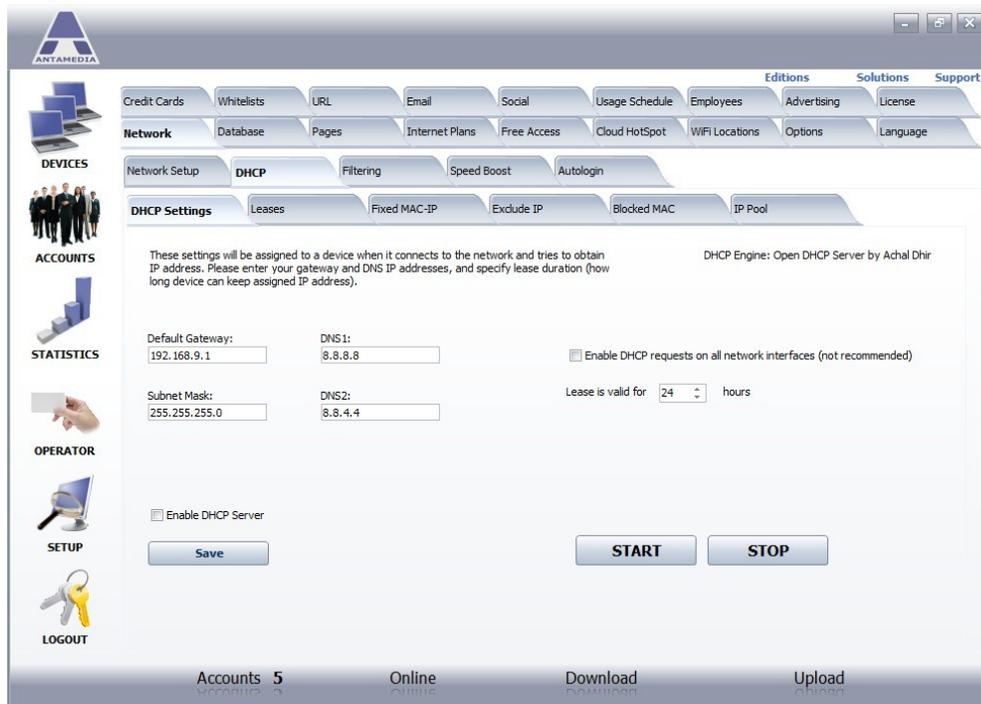
If login page doesn't appear, please check [pre-installation steps](#)³⁾

3.2 DHCP Settings

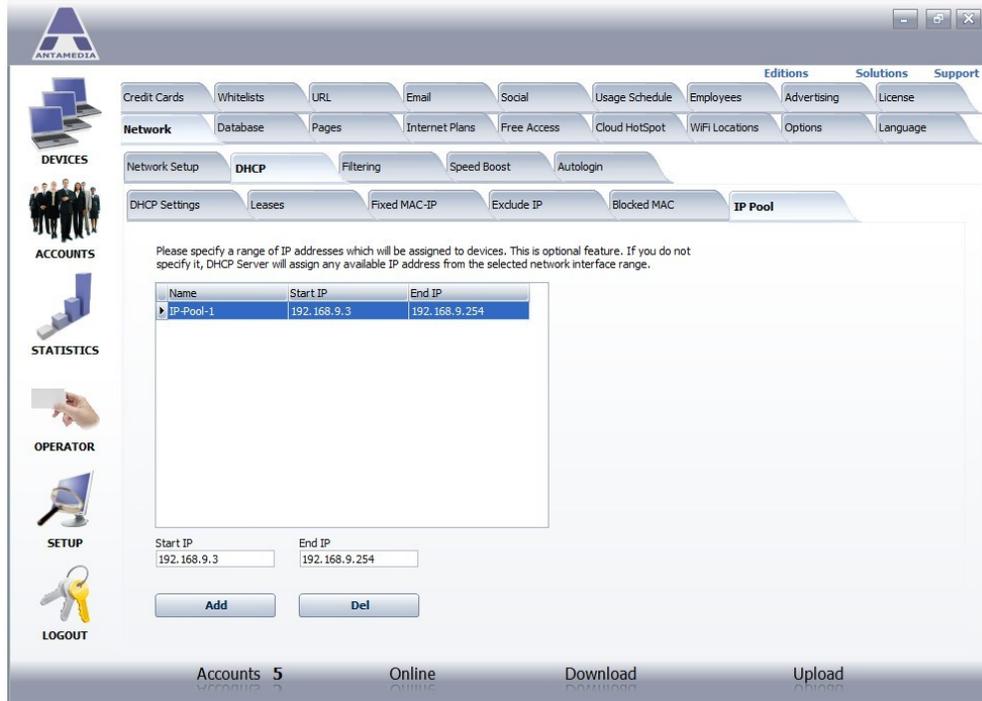
Manually assigning IP addresses without a DHCP server can create havoc on your client network. Antamedia Hotspot comes with built-in free OpenDHCP server, which can be used to assign dynamic IP addresses to client devices on client network.

Before you can start using it, proper IP settings have to be configured. Please go to **Hotspot - Setup - Network - DHCP** page and open **DHCP Settings** tab. Following settings need to be configured:

- Default Gateway** As Default Gateway address enter IP address of NIC2 (LAN) adapter in this field.
- Subnet Mask** Value in this field has to match value set in IP properties of NIC2 (LAN) adapter.
- DNS1, DNS2** It is recommended to use DNS addresses of your ISP or public DNS servers such as Google's (8.8.8.8, 8.8.4.4).
- Lease is valid for __hours** This option determines how long client devices can keep assigned IP address. It is recommended to set value of 8 hours for wireless networks.



A pool of available addresses is automatically created based on IP settings of NIC2(LAN) adapter. If you need to add a new pool or modify existing, it can be done on the page under **IP Pool** tab.



After you configure these settings, check **Enable DHCP** server and click **Save** button. Restart Hotspot and DHCP will start automatically with it.

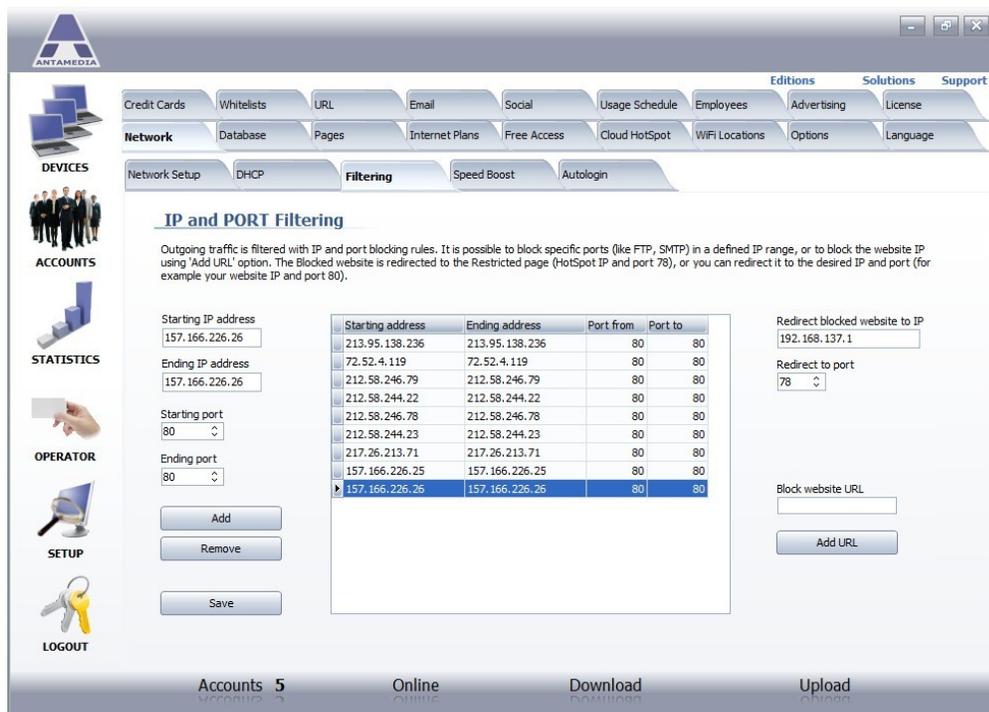
3.3 Filtering

Antamedia HotSpot provides a feature to block access to specified hosts and ports. You can use it to block access to certain websites, FTP servers, Email servers, P2P programs or a complete IP or PORT range. This feature controls the outgoing traffic - what customers are trying to access.

To configure filtering, please enter the desired values in the following fields:

- Starting and Ending IP address** Defines starting and ending IP of the range you wish to block
- Starting and Ending port** Defines starting and ending port of the range you wish to block

Please click Add button to add the defined rule to the list. To remove specified rule from the list, please select it with left mouse click and press Remove button. When you finish adding rules, please press the Save button.



Blocking a website with Antamedia HotSpot is a simple task. To block the desired website, please enter URL address in the Block website URL field and press Add URL button.

Please type URL without http://. For example, if you type www.porn.com and press Add URL, HotSpot will resolve IP address where this website is hosted and store the IP address and the port in the restricted list (like 64.89.23.139 and port 80).

The blocked websites are redirected to a restricted web page. By default, HotSpot is serving the restricted page from the port 78 and HotSpot IP address. You can configure the text which appears on the restricted web page in HotSpot - Setup - Pages - Customize page, by editing Restricted page (Setup-Pages_.htm. Please restart HotSpot after these page modifications.

If you do not wish to show the restricted page, but instead you wish to redirect customer to desired website, you can modify default settings. Please enter IP in Redirect blocked website to IP field, and port in Redirect to port field. If you are redirecting to your website, please enter your website host IP and the port 80.

All restricted traffic on ports, apart from port 80, is simply blocked. If you have the configured rules to block FTP, SMTP and the other ports, a customer will not be able to access these services. There are no restricted messages in this case.

3.4 Speed Boost

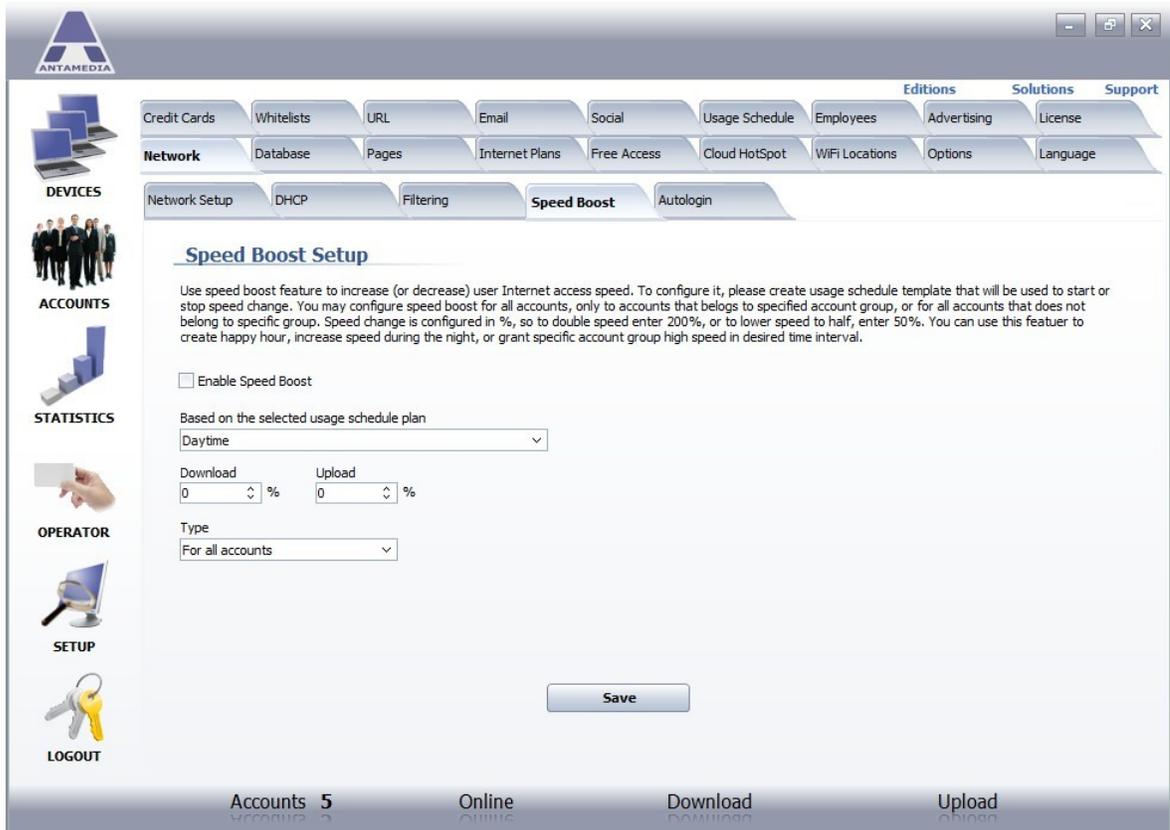
Speed Boost option can be used to increase or decrease user Internet access speed during specific time interval. You can use this feature to create happy hour, increase speed during the night, or grant specific account group high speed in desired time interval. To configure it, please create usage schedule template that will be used to activate speed change.

You may configure speed boost in several ways:

- for all accounts,
- only for accounts that belongs to specified account group,
- or for all accounts that does **not** belong to specific group.

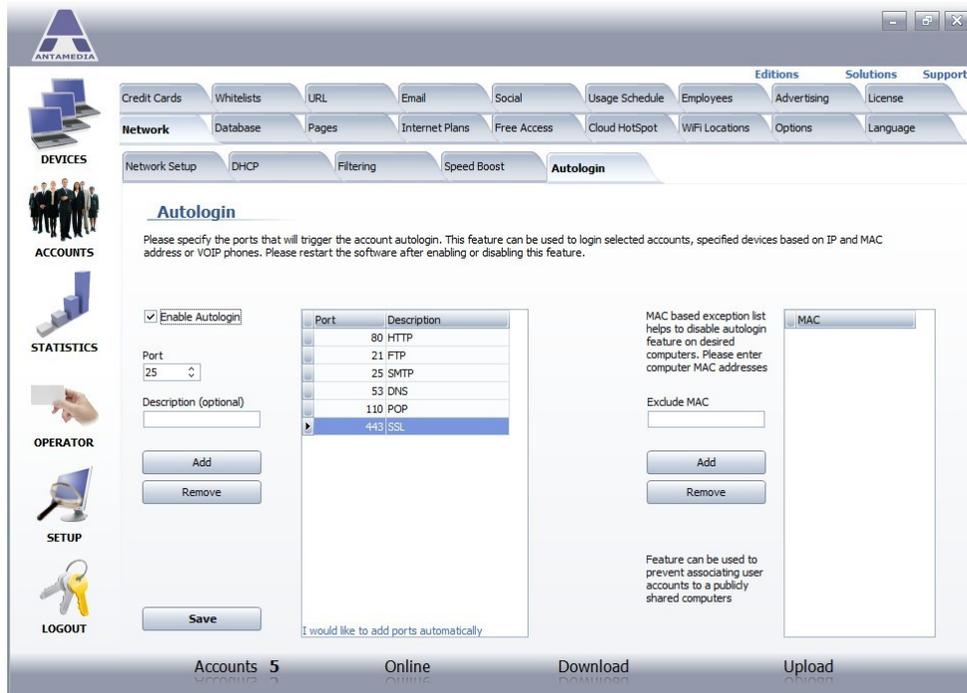
Speed change is configured in **%**. To double speed, please enter 200%, or to lower speed to half, enter 50%.

Enable Speed Boost	Select it to activate speed boost.
Based on the selected usage schedule plan	From drop-down menu select usage schedule plan that will be used for speed boost.
Download	Set download speed boost in percents.
Upload	Set upload speed boost in percents.
Type	From drop-down menu select type of accounts to which speed boost will apply (for all accounts, only for account group or for all accounts except group)



3.5 Autologin

Autologin feature automates the login process since a customer does not need to enter a username and password. As soon as a customer connects to your network, HotSpot will detect it and automatically login customer device. This way a customer skips the login page and has a feeling that the computer or device is always connected to the Internet. However, HotSpot will track customer usage and logout account in case of inactivity.



How to configure Autologin ?

1. You have to **Enable Autologin** globally in the software
2. In **Manage Account** page please **Enable Autologin** to allow autologin for that account. By default, this option is enabled while generating the accounts so this step is usually not necessary.
3. Customer has to login initially in order to store MAC address of computer in HotSpot database. From that moment, autologin will be functional for that account. MAC address is stored in Account **Manage Account** page, in a field below **Fixed MAC** option.

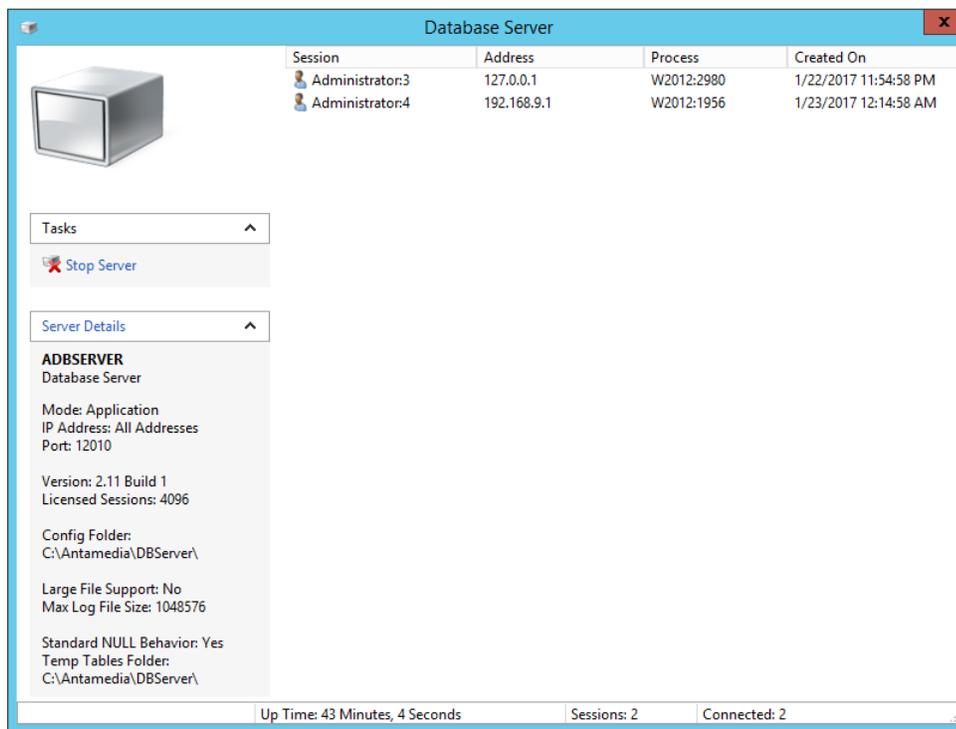
This feature can be used to allow desired devices (like VOIP phones) to access network automatically. In order to do this, you have to create the accounts for each device and store its MAC address manually. You will also have to add VOIP ports that should trigger the autologin. By default, HTTP, FTP, SMTP, DNS, POP and SSL ports are stored in autologin ports list. This means that autologin will be activated if a customer tries to access the Internet by using any browser, FTP software or tries to send or receive Emails. You can add additional ports required for other applications. You can also disable autologin on some devices by adding their MAC address to the **MAC exception list**.

4 Database Server

Antamedia Database Server stores the data from Antamedia software (customers accounts, pricing plans, bills, statistics, reports, action log etc.). Database Server is installed from HotSpot Installer using Express Installation or using Custom Installation process when you need to select to install it separately from HotSpot package.

Database server can be installed on the same computer as Antamedia HotSpot or some other computer. For standard HotSpot installation and usage scenario Database Server can be located on the same computer, assuming that such computer is fast enough to handle all tasks. Please use Task Manager to monitor system resources and CPU usage. When idle, HotSpot and Database Server doesn't show any significant CPU usage. However, with large number of concurrent users, HotSpot and Database Server might reach 40-50% of CPU usage, and this is a sign to move Database Server to other computer or to get faster computer.

Upon installing Database Server, Installer will start ADBConfigurator (Antamedia Database Configurator) which will perform maintenance, update and add new database tables, stored procedures, triggers etc.



If you intend to run multiple HotSpots and share the accounts between these locations, you will have to install Database Server on a computer with Public IP address (accessible from Internet). This way, all HotSpots will be able to connect to one Database Server.

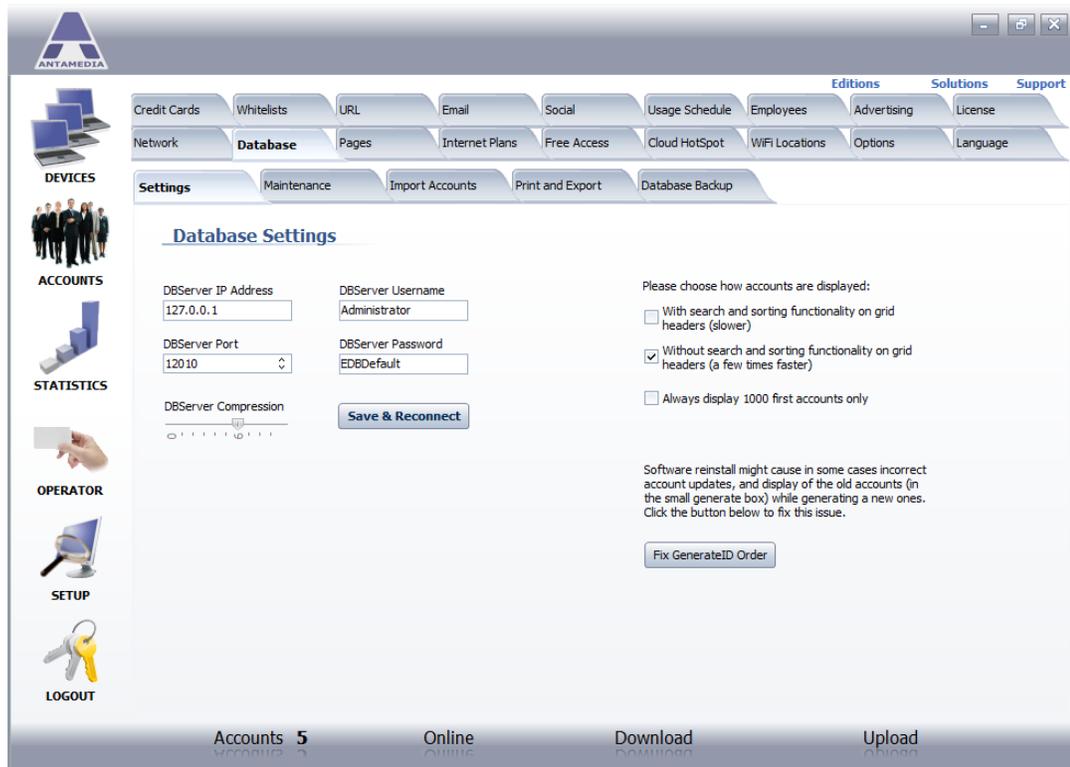
4.1 Database Settings

When the HotSpot is started for the first time, Setup Wizard will automatically configure **Database Server IP address**. If you have installed Database Server on other computer, please configure correct IP address.

Database settings page contains following options:

DBServer IP Address	IP address of the computer where Database Server has been installed. This IP is usually the same as HotSpot IP address
DBServer Port	Port used by Database Server. Default port is 12010*.
DBServer Username	Database Server username. Default username is Administrator*.
DBServer Password	Database Server Password. Default password is EDBDefault*
DBServer Compression	If HotSpot is connected to the Database Server through the Internet it is recommended to use higher compression to get faster response from the database. When running on the same computer, default compression setting (6) is recommended.
Save & Reconnect	Save settings and reconnect HotSpot to the Database Server
With search and sorting functionality on grid headers	With this option enabled you have ability to sort accounts (per name, IP, time etc.). If you are using computer with slower CPU and Ram memory, it is recommended not to use this option.
Without search and sorting functionality on grid headers	Account sorting is disabled and HotSpot will display accounts much faster and get overall better performance. It is recommended to select this option.
Always display only 1000 first accounts	If you have a large database and experience slow display of accounts when clicking on ACCOUNTS button, please consider using this option. It will significantly speed up database display on screen as only first 1000 accounts from result set will be displayed.

*Please note that the default port, username and password can be changed in the Database Server configuration menu



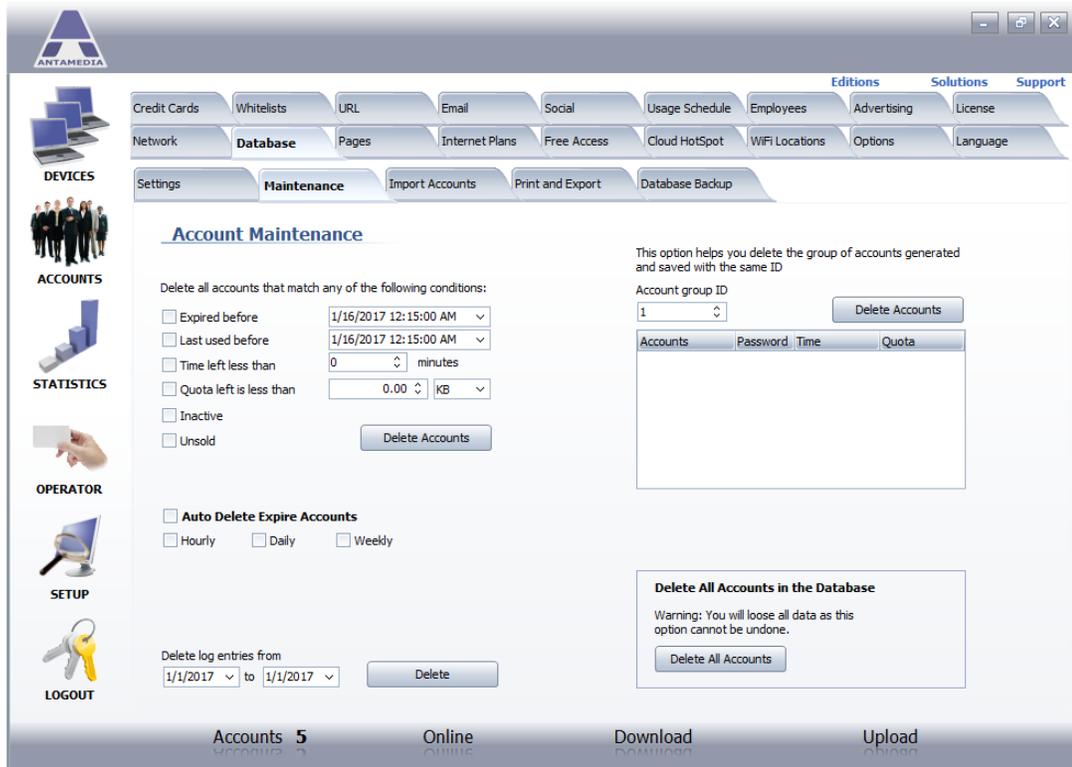
4.2 Database Maintenance

Everyday HotSpot activity increases database size. Although HotSpot can handle large amount of data, it might be a good idea to perform maintenance on a regular basis or to enable hourly, daily or weekly automatic maintenance. With default HotSpot setting all the accounts are displayed after clicking on **ACCOUNTS** button. With large database and many old and expired accounts it might take time to show them on screen. Account maintenance can help you keep the database fresh and speed up the display of accounts.

To enable automatic maintenance, go to HotSpot - Setup - Database - Maintenance page, enable **Auto delete expired accounts** option, set desired recurring interval and configure needed additional options. Other manual account maintenance options available on the page are:

- | | |
|-----------------------------|---|
| Expire Before | Use it to delete the accounts which expired before the specified date |
| Last used before | Delete old accounts that have not been used lately |
| Time left less than | Use it to delete accounts with few minutes left time. In the field specify the time interval in minutes |
| Quota left less than | This filtering option will remove accounts with quota less than scified |
| Inactive | Delete all deactivated accounts |
| Unsold | Delete the account that is generated with Sell Later option enabled, but not sold yet |

After selecting the desired options, please click **Delete Accounts** to delete the accounts from the database.



We also recommend to **Delete Log entries**. It is recommended to keep logs from last month.

No matter how careful you are, there are cases when you as Administrator or Operator create a bunch of accounts using wrong pricing plan or wrong Prefix and those accounts should be removed from Database. Best way to do it is to delete whole set of accounts using Generate ID used for account creation. Find set of accounts using Account group ID and press **Delete Accounts** button.

In case that you want to remove all accounts from database at same time, press **Delete All Accounts** button.

Please be careful with these options since deleted accounts can not be restored.

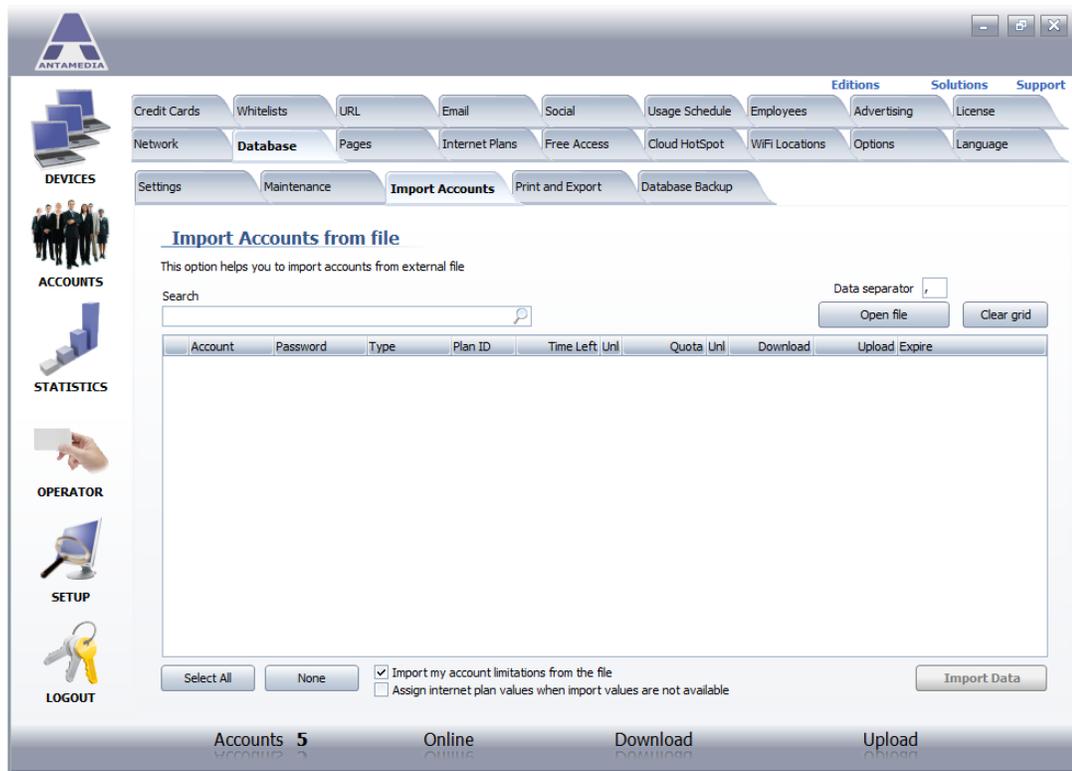
4.3 Importing Accounts

Sometimes there may be a need to import accounts to Hotspot from external sources. That can be easily accomplished using this option. Your only concern is to provide a properly formatted file with delimited values (.csv). Fields should be sorted this way:

"Account","Password","Time Left","Expire","Download","Upload","Quota", "Money"

Note that expire date cannot be imported currently, leave that field blank. Time Left field uses seconds as unit. Download,Upload and Quota fields use bytes.

Import page is located on HotSpot - Setup - Database - Import Accounts tab and contains following options:



Search

Search accounts in the import list

Data separator

Delimiter used in imported file

Import my account limitations from the file

Choose whether to import account limitations like download and upload rate, quota etc.

Assign price plan values when import values not available

Check this option to assign values of desired price plan to imported accounts if import values are not available

Please select price plan

From list select price plan that will be used for import

Import Data

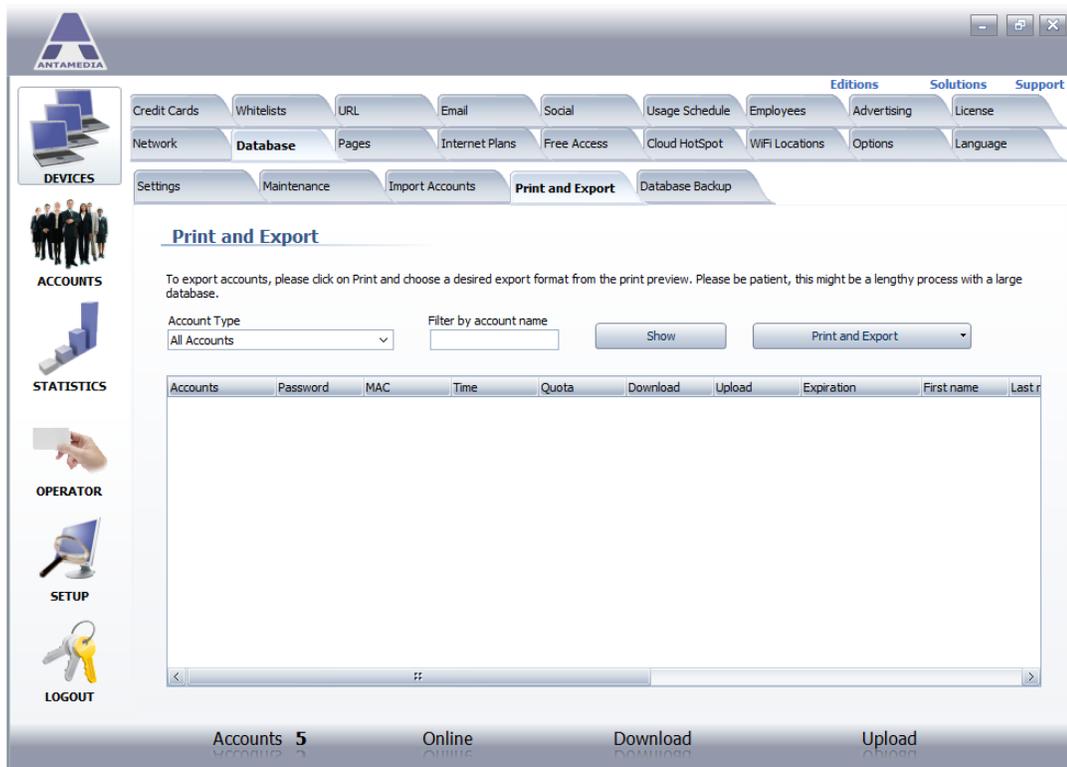
Press on this button to import accounts

4.4 Accounts Print and Export

Antamedia Hotspot allows you to print the account list or export it to many different file formats (txt, html, pdf, csv, jpeg etc.).

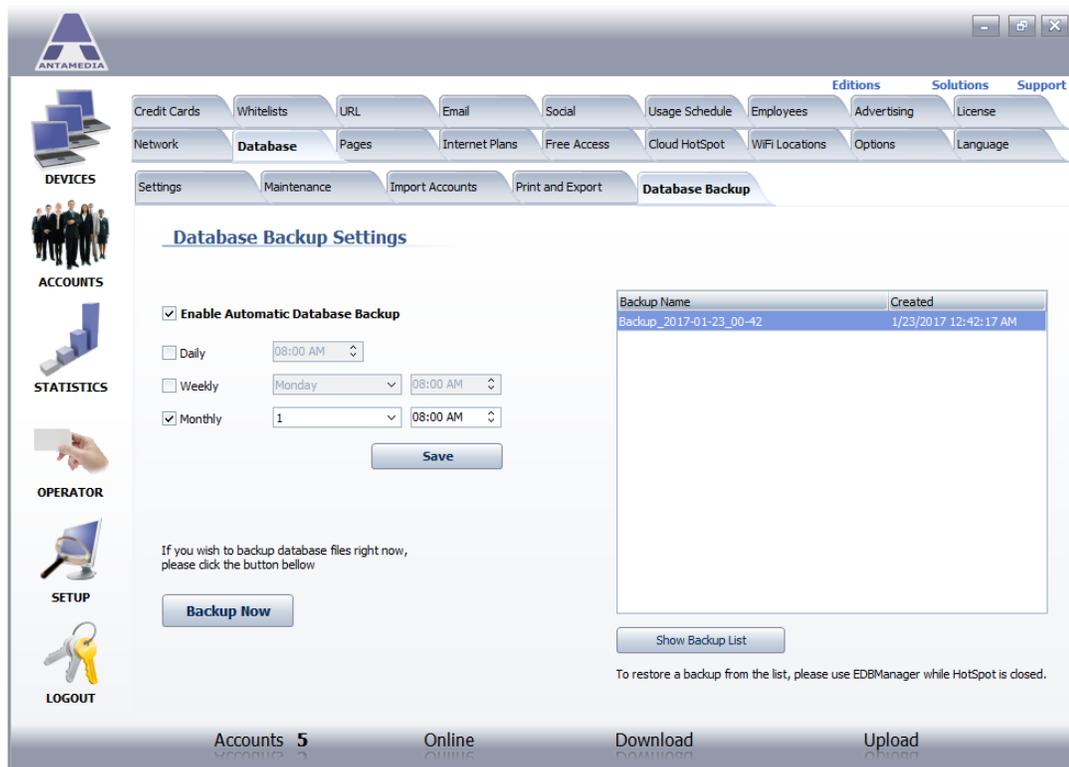
To print or export the account list, please follow these steps:

1. Open HotSpot - Setup - Database - Print and Export page
2. Select account type from the drop-down menu
3. (Optional) Enter the name to filter account list
4. Click **Show** button (account list will appear)
5. Click **Print** button
6. Print preview will open (this may take some time depending on database size)
7. To export the account list click on export icon, choose a file format and click ok
8. To print the list click on the printer icon and click OK in the print dialog



4.5 Database Backup

Database backup feature is useful in case of unexpected events like sudden power interruption, which can corrupt parts or the whole database in some cases. If such problem occurs you can restore a database backup taken earlier, and prevent possible data losses. Backups can be created manually or automatically on daily, weekly or monthly basis. Settings for this feature can be configured from HotSpot - Setup - Database - Database Backup page. Backup files are saved in C:\Antamedia\DBServer\Database\Backup folder.



To restore a database backup, please follow these steps:

Close HotSpot software and any Operator that connects to database, even as service in the background. Go to Windows Task manager and from Process tab find and stop AHotSpot.exe and ADBHS.exe To make database backup copy C:\Antamedia\DBServer\Database folder to some other location.

Download [EDBManager application](#). Extract downloaded file to desktop and start it. In EDBManager **create new** (Admin) session. In General tab please select **Remote** not Local. In the Login fields type '**Administrator**' as username and default password '**EDBDefault**'. Username and the password are the same as it is set in the software Setup - Database - Database settings tab.

Go to **Databases** and find **AntamediaDB**. Press **Restore Database**. In new window you will see a list with the backups stored at the C:\Antamedia\DBServer\Database\Backup folder. Select which you want to restore and press **OK**.

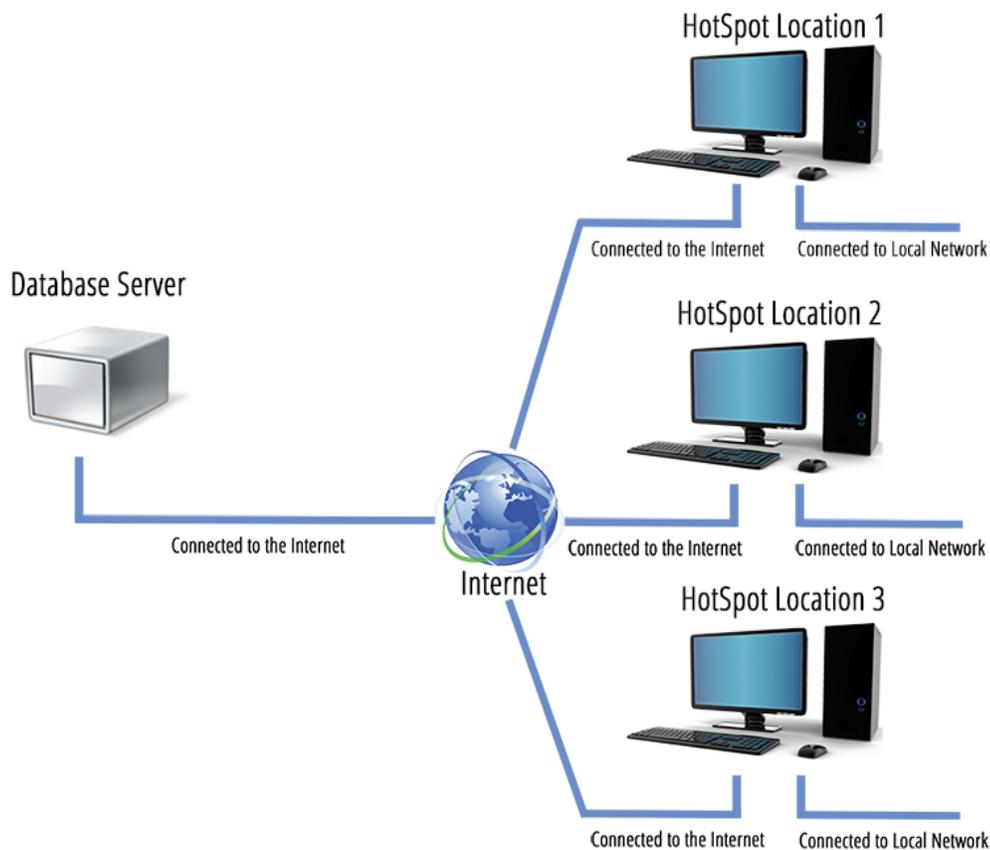
Database will be restored and you can close EDBManager and start Hotspot software.

4.6 Connecting Multiple HotSpots

Large networks, consisting of several HotSpots spread in different city locations, can use the same Database Server in order to share data. The same accounts, price plans, usage schedule and other data can be used in any of these connected locations.

In order to connect multiple HotSpots you have to:

1. Install Database Server on a computer with Public IP address (accessible from Internet). This way, all HotSpots will be able to connect to one Database Server.
2. On every HotSpot, please configure Database IP address in HotSpot - Setup - Database - Settings page. IP which you should enter is the public IP address
3. Make sure that firewalls are not blocking communication between HotSpots and Database Server



Please note, Antamedia Database Server can be installed on any of the HotSpot locations. For example, you can install Database Server on HotSpot location 1 and configure other two HotSpot locations to connect to the IP address of the first location.

Benefits

- Customers can use account in any of the connected HotSpots.
- Accounts can be created in any of the connected HotSpots. It can be created even from administrator home or different country.
- You can use multiple Internet connections for your network. For example, every HotSpot can use it is own ADSL connection for group of users connected to that HotSpot. This can help you to decrease total traffic through the network backbones.

How to be sure that everything is working ?

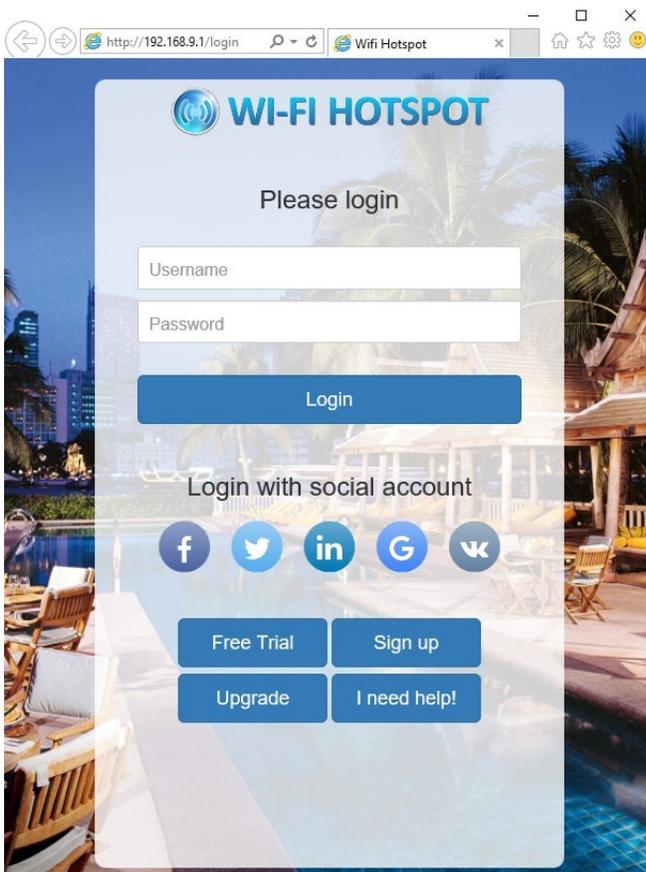
Create accounts on one HotSpot, then click on ACCOUNTS button on the second HotSpot. If you see newly created accounts, you've configured it correctly.

5 Login, Signup and Logout

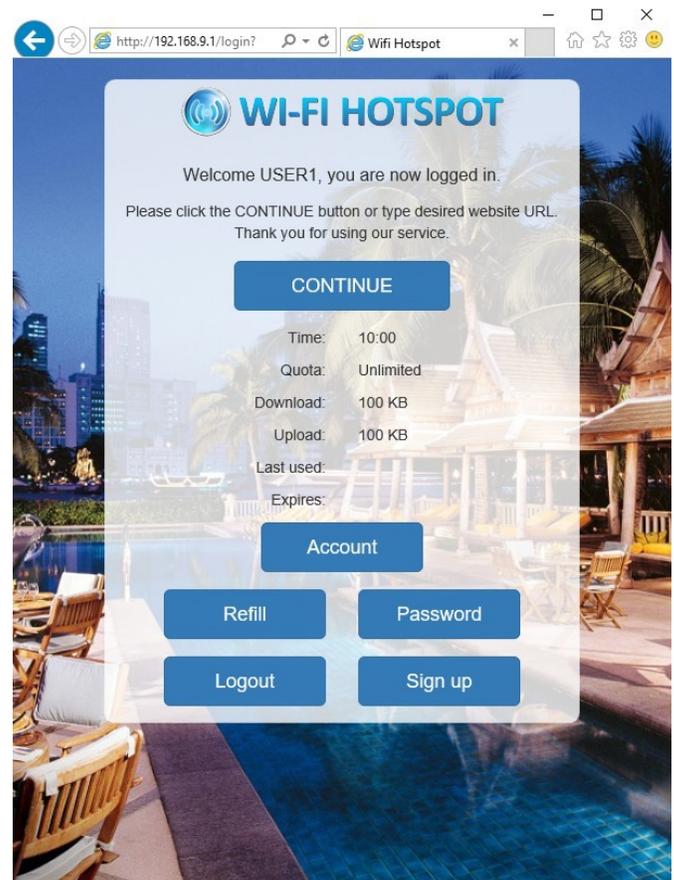
5.1 Login

When a customer connects to your network and type any website address, login page will be displayed in a browser. Customer have to login to get Internet access. There are many types of login pages, such as login with username and password, ticket (voucher), hotel login with room number and guest name, free login, social login etc.

Default login page contains **Username** and **Password** fields, **Login** button, **Free trial**, **Sign Up**, **Upgrade now!** and **I need help!** link. The customer needs to type correct account information - Username and Password and press Login button. HotSpot verifies this information in database and if the customer entered correct details, login would be granted.

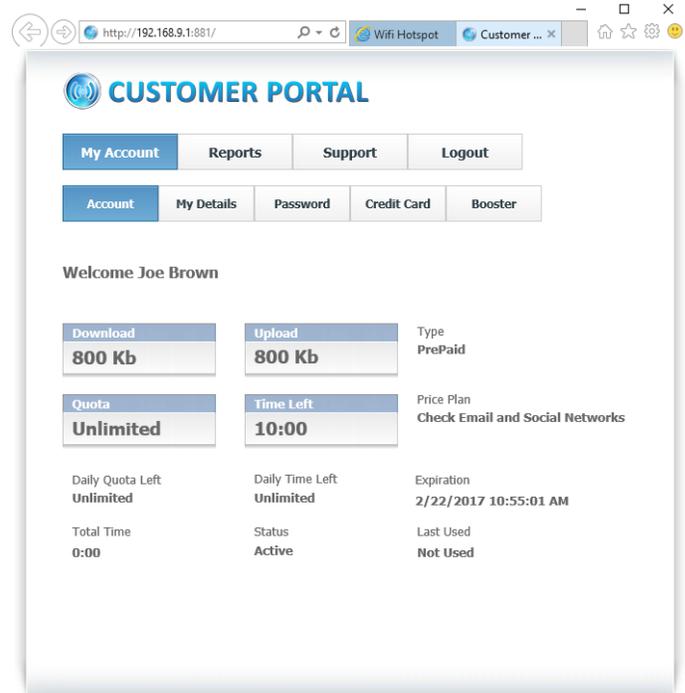


Customer types username and password and clicks Login button.

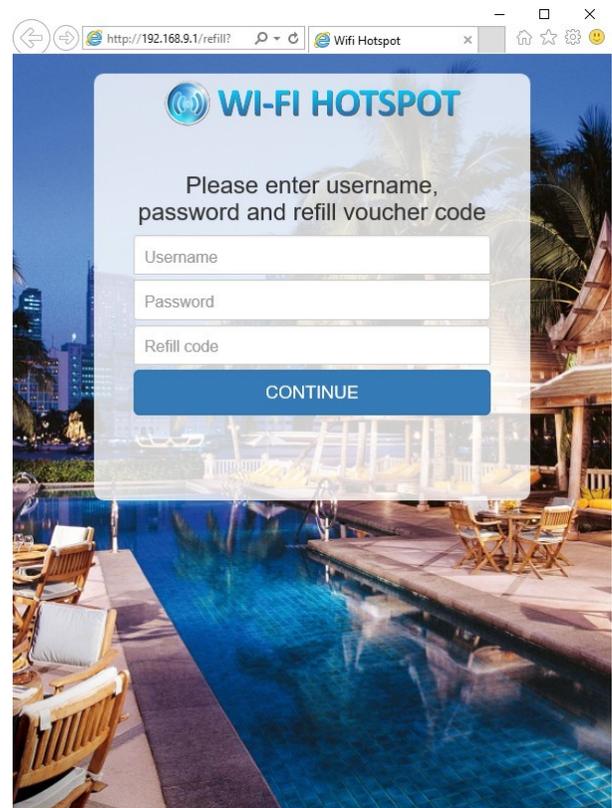


Welcome screen shows account details, and redirects to the page which customer requested after CONTINUE button is clicked.

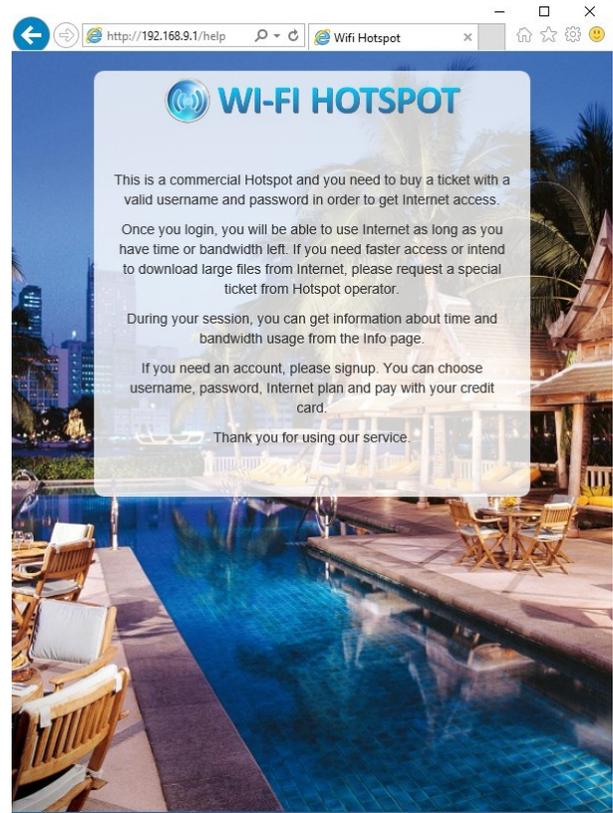
Welcome page is useful as it keeps a customer informed about the time and bandwidth quota left, upload and download speed, last used and expiration date. Customer may click **Account** link to get details about usage. To get Internet access, customer can click **Continue** button.



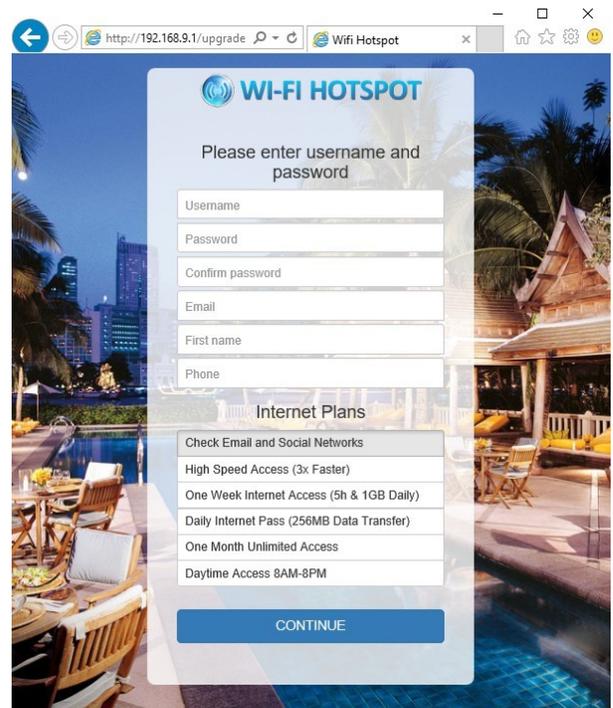
Refill button from the Welcome page is used for refilling pre-paid account with a refill code. Customer have to enter Account Username, Password and a valid Refill code.



Help page explains that HotSpot is commercial and that customer should buy a ticket. This page can be modified to show your contact numbers, live chat link, terms of usage etc.

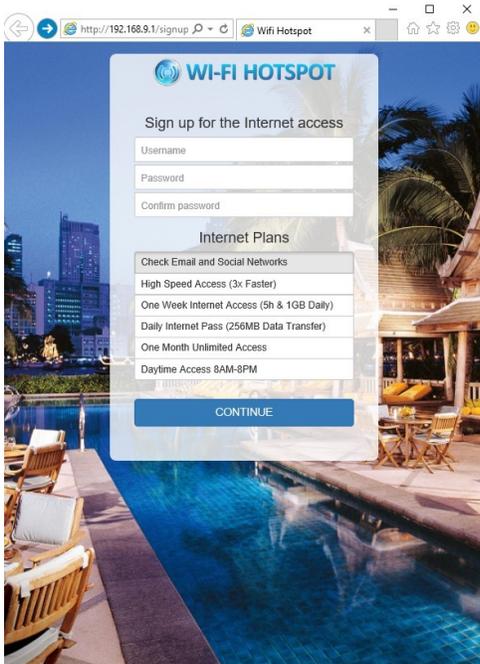


Upgrade link helps existing customers to top up account with one of defined Internet plans.

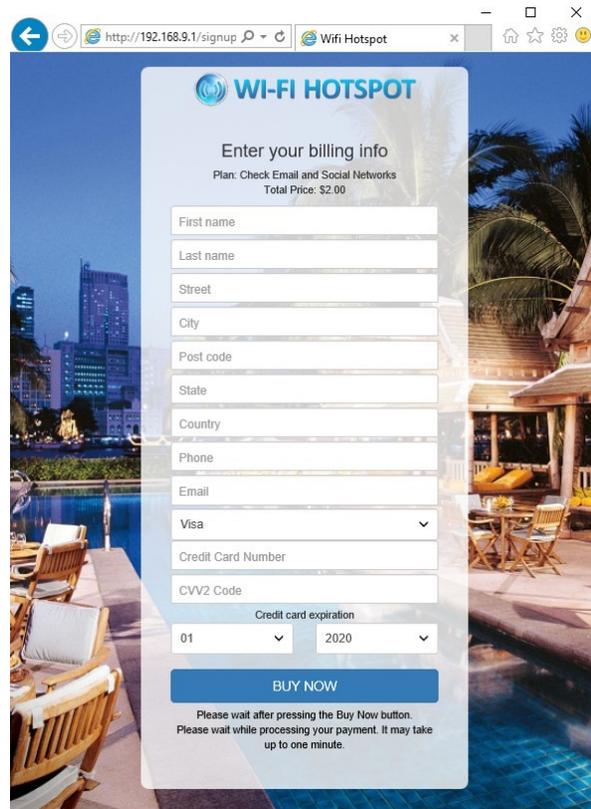


5.2 SignUp

If you accept credit cards, a customer can click **Signup** link and pay for Internet access. Customer will choose username and password, select a price plan and pay with a credit card.



The same Signup link can be used to **refill existing account**. Customer should enter the existing username and type (and confirm) a password.



5.3 Logout

HotSpot users will be logged out automatically when time or bandwidth quota expires. Of course, there are other parameters that can cause logout, like daily time or quota expiration, an account expiry date has been reached, usage schedule definition, or when a user did not perform any activity in the specified time (like computer shutdown, forgot to logout manually etc). User can logout in different ways:

1. By clicking **Logout** button located on **Infobox** pop-up menu (displayed after login)
2. By clicking **Logout** button located on **Info** page (like <http://ServerIP/info>)
3. By typing keyword **LogMeOut** in browser address bar (like <http://ServerIP/logout>). This keyword is tracked in two ways:
 - through the NetBIOS (if a customer has enabled NetBIOS in network interface used to connect to your network). This feature is available in all the editions.
 - as a **URL Keyword** function located in HotSpot - Setup - URL - URL Keyword tab, that functions as a parser of incoming traffic. The second case require **URL Tracking** feature enabled, which is available in Premium edition.
4. Automatically if a user has not performed any Internet activity in the specified time. **Inactivity timeout** should be active on account and set in HotSpot - Setup - Network - Network setup page.



6 What is User, Ticket and Refill ?

Before we start with the instructions how to create accounts let us explain differences first.

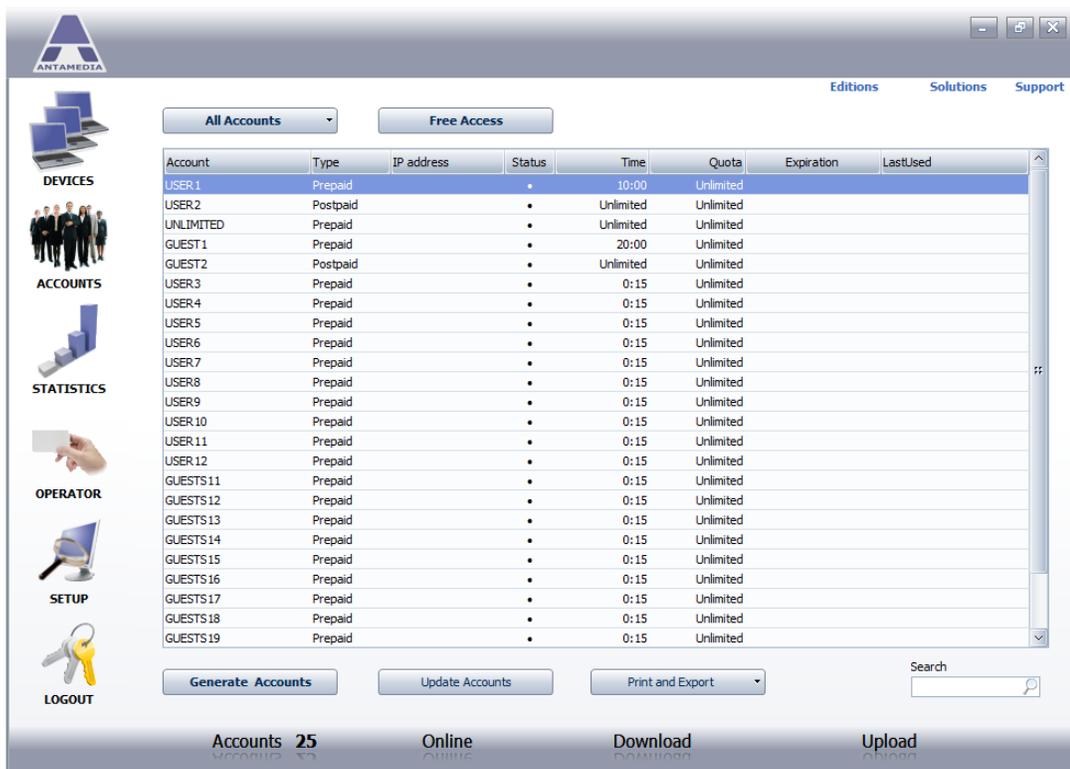
User accounts are represented with Username and Password required for login to HotSpot.

Tickets are represented with a code, which is a sequence of letters and numbers. Tickets are PrePaid based.

Refills are not login accounts. Refills are used to add more time or bandwidth quota to an already existing PrePaid user account or Ticket.

Usage based accounts are postpaid accounts which have 0 values for time and quota, and these are increased during usage. Customers can be billed later at desired time intervals.

Free accounts are accounts without price, after generating they are not shown in sales report.



The screenshot shows the Antamedia HotSpot management interface. On the left, there is a sidebar with navigation icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main area displays a table of accounts under the 'All Accounts' tab. The table has columns for Account, Type, IP address, Status, Time, Quota, Expiration, and LastUsed. Below the table are buttons for 'Generate Accounts', 'Update Accounts', and 'Print and Export'. At the bottom, there are summary statistics: Accounts 25, Online 0/1111, Download 0/1111, and Upload 0/1111.

Account	Type	IP address	Status	Time	Quota	Expiration	LastUsed
USER 1	Prepaid		•	10:00	Unlimited		
USER2	Postpaid		•	Unlimited	Unlimited		
UNLIMITED	Prepaid		•	Unlimited	Unlimited		
GUEST1	Prepaid		•	20:00	Unlimited		
GUEST2	Postpaid		•	Unlimited	Unlimited		
USER3	Prepaid		•	0:15	Unlimited		
USER4	Prepaid		•	0:15	Unlimited		
USER5	Prepaid		•	0:15	Unlimited		
USER6	Prepaid		•	0:15	Unlimited		
USER7	Prepaid		•	0:15	Unlimited		
USER8	Prepaid		•	0:15	Unlimited		
USER9	Prepaid		•	0:15	Unlimited		
USER10	Prepaid		•	0:15	Unlimited		
USER11	Prepaid		•	0:15	Unlimited		
USER12	Prepaid		•	0:15	Unlimited		
GUESTS 11	Prepaid		•	0:15	Unlimited		
GUESTS 12	Prepaid		•	0:15	Unlimited		
GUESTS 13	Prepaid		•	0:15	Unlimited		
GUESTS 14	Prepaid		•	0:15	Unlimited		
GUESTS 15	Prepaid		•	0:15	Unlimited		
GUESTS 16	Prepaid		•	0:15	Unlimited		
GUESTS 17	Prepaid		•	0:15	Unlimited		
GUESTS 18	Prepaid		•	0:15	Unlimited		
GUESTS 19	Prepaid		•	0:15	Unlimited		

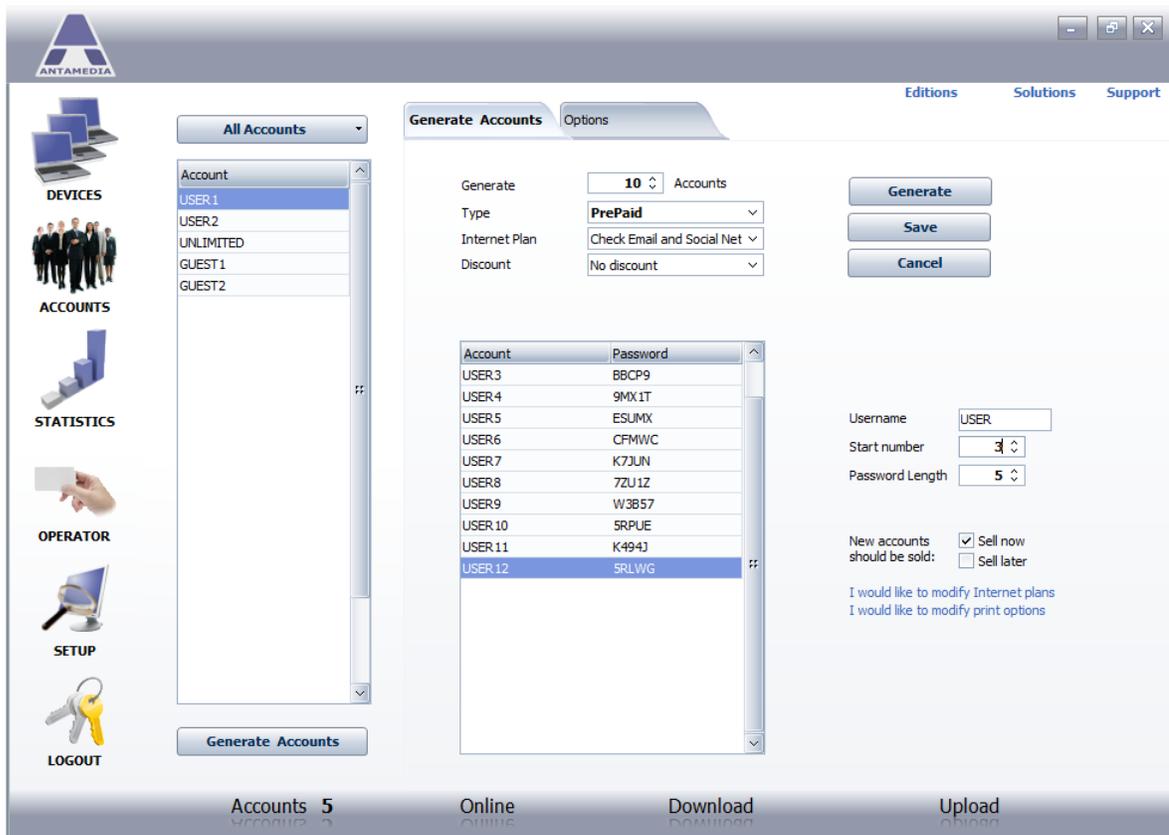
7 Creating Accounts

7.1 Generate Accounts

Generate Accounts option is located in **Accounts** tab, which is available from the main HotSpot screen. The same option is used to generate: Users, Free accounts, Tickets, Refills and Usage based accounts. HotSpot takes care to generate unique accounts, with settings defined by **Internet Plan**. Each price plan has price, time, bandwidth quota, expiration date and other options. However, administrator or employee (with appropriate access rights) is able to modify any of the settings before generating accounts.

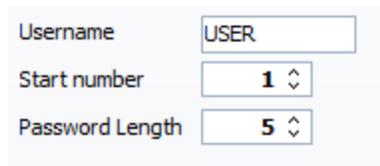
Generate Accounts page has following options:

- Generate _** Please enter how many accounts you want to generate
- Type** Select the type of accounts
- Internet Plan** Choose a Price Plan to define parameters of new accounts
- Discount** Select the discount you want to apply to generated accounts



Depending of **Type** selection, different options will appear in the right side of the screen:

- Prefix** A word which comes as a first part of the generated account username (like NEW)
- Start Number** Defines starting number to be added to prefix (like 21). With this examples, accounts that will be created are NEW21, NEW22, NEW23 etc.
- Password Length** Defines how many characters (letters and numbers) will a password have
- Length** Defines how many characters (letters and numbers) will ticket or refill have



When generating user accounts



When generating tickets or refills

- Sell now** Accounts are saved in the database, sold and added to bills and statistics, and ready for use.
- Sell later** Accounts are saved in the database, and will be sold on the first usage or when operator click **Sell** button in **Accounts** page
- Generate** Use generate button to create new user account, ticket or refill
- Save** Save generated accounts in the database
- Cancel** Close Generate Accounts tab

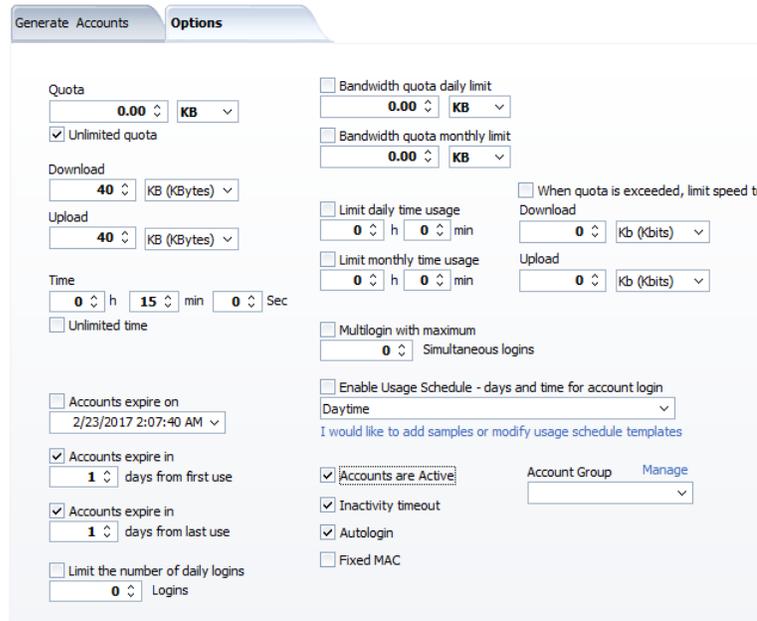
What are the steps to generate accounts ?

1. Type **10** to generate 10 accounts
2. Select type of account
3. Choose desired price plan
4. Optionally select discount
5. Click **Generate**
6. Click **Save**

If you want to print accounts directly, without print preview, you can select **No Preview** option in HotSpot - Setup - Options - [Print Options](#)¹³⁰.

7.2 Modify Generate Options

Generate options are automatically filled in when you choose a price plan. However, if you like to modify some option (like increase download for next 10 accounts you make) you can do it using **Options** page.



The screenshot shows the 'Options' tab in the 'Generate Accounts' interface. It contains several sections of settings:

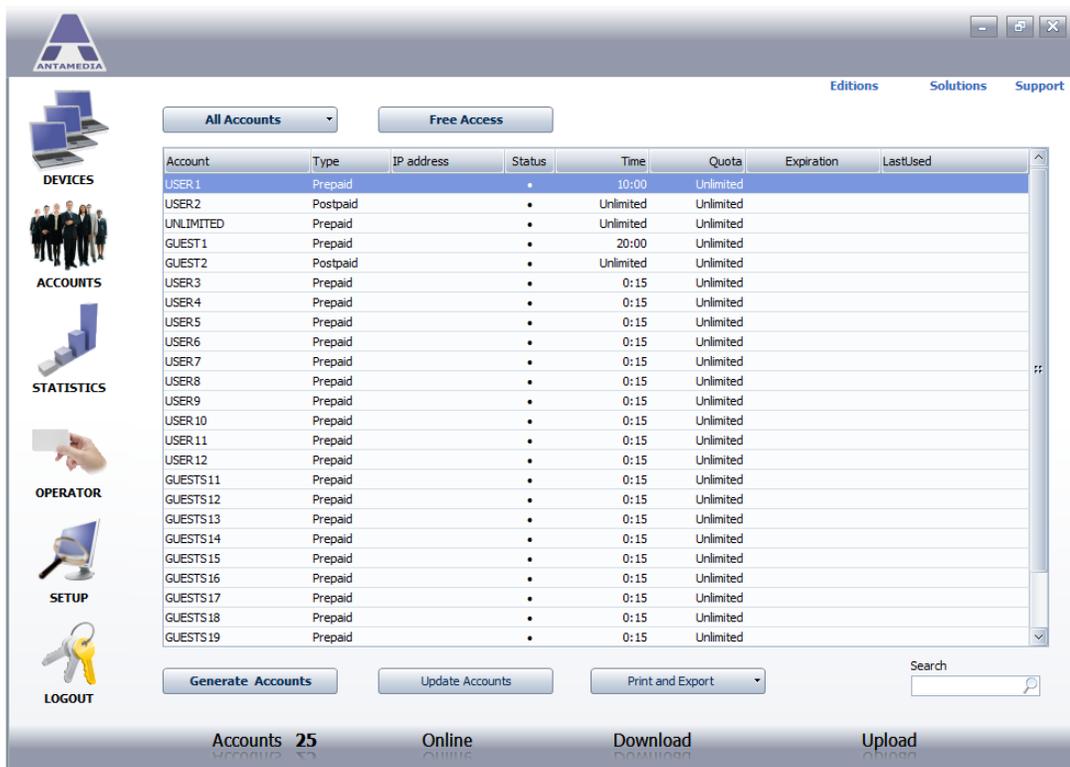
- Quota:** A text input field with '0.00' and a dropdown menu set to 'KB'. Below it is a checked checkbox for 'Unlimited quota'.
- Download:** A text input field with '40' and a dropdown menu set to 'KB (KBytes)'.
- Upload:** A text input field with '40' and a dropdown menu set to 'KB (KBytes)'.
- Time:** Three text input fields for 'h' (0), 'min' (15), and 'Sec' (0). Below is an unchecked checkbox for 'Unlimited time'.
- Accounts expire on:** A date and time selector showing '2/23/2017 2:07:40 AM'.
- Accounts expire in:** Two checked checkboxes. The first is 'Accounts expire in 1 days from first use' and the second is 'Accounts expire in 1 days from last use'.
- Limit the number of daily logins:** A text input field with '0' and the label 'Logins'.
- Bandwidth quota daily limit:** A text input field with '0.00' and a dropdown menu set to 'KB'.
- Bandwidth quota monthly limit:** A text input field with '0.00' and a dropdown menu set to 'KB'.
- When quota is exceeded, limit speed to:** Two dropdown menus for 'Download' (0) and 'Upload' (0), both with units '(Kbits)'.
- Limit daily time usage:** Two text input fields for 'h' (0) and 'min' (0).
- Limit monthly time usage:** Two text input fields for 'h' (0) and 'min' (0).
- Multilogin with maximum Simultaneous logins:** A text input field with '0'.
- Enable Usage Schedule - days and time for account login:** A dropdown menu set to 'Daytime'.
- Accounts are Active:** A checked checkbox.
- Inactivity timeout:** A checked checkbox.
- Autologin:** A checked checkbox.
- Fixed MAC:** An unchecked checkbox.
- Account Group:** A dropdown menu with a 'Manage' link next to it.

- Quota** Total bandwidth traffic available to a user for downloading or uploading. It is usually displayed MB, GB or TB depending on value. Quota is not a sum of download and upload traffic. If you define 100 GB as quota, user can download and upload maximum of 100 GB, whichever comes first.
- Unlimited Quota** Enable this option if you do not wish to limit users by bandwidth quota
- Download** Download rate limitation. Download rate can be displayed in: KBytes, Kbits, MBytes or Mbits. Like 1 Mbit/s
- Upload** Upload rate limitation.
- Time** Time available for Internet usage. It is measured in seconds
- Unlimited Time** Enable this option if you do not wish to limit users by time. It is useful if you charge users by bandwidth or users pay monthly fees
- Accounts expires on** Set the date when account expires. After expiration date account can not be used anymore for login and user will see a message that account has expired
- Accounts expire in _ days from first usage** Number of days in which will account expire from the **first** login. For example, if you set to 10 days, and user will not be able to login on 11th day from first login

Accounts expire in _ days from last usage	Number of days in which will account expire from the last login. For example, if you set to 10 days, and user does not login in the next 11 days, account will expire
Limit number of daily logins	Limit how many times user can login on daily basis
Bandwidth quota daily limit	Total bandwidth traffic available to user on daily basis. When all daily quota is used, user can login on the next day
Bandwidth quota monthly limit	Total bandwidth traffic available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
Limit daily time usage	Total time available for Internet usage on daily basis. When all daily time is used, user can login on the next day
Limit monthly time usage	Total time available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
When quota is exceeded, limit download speed to	When user reach quota limit set download speed to __
When quota is exceeded, limit upload speed to	When user reach quota limit set upload speed to __
Multilogin with maximum _ simultaneous logins	Multilogin option allows more than one user (computer) to login with the same account. Users sharing one account also shares total download and upload rate. For example, 100 KB/s can be used by one user, or it can be used for 10 users to have approximately 10 KB/s each.
Enable Usage schedule - days and time for account login	- Specify time period when accounts can login. Day and time rules are defined in HotSpot - Setup - Usage Schedule page. This option can be used for example to allow login for account from 8AM to 8PM, or only on weekends, or to force the users to logout at midnight.
Accounts are Active	Disabled option means that generated accounts can not be used for login until they are activated
Inactivity timeout	Automatically disconnects the users from the Internet after specified time of inactivity
Autologin	Enable Autologin ⁽¹⁷⁾ feature for accounts.
Fixed MAC	Limit an account so it can login only from the devices you specify.
Account Group	Define a group for current batch of generated accounts. This option is useful for later bulk updating of the accounts, for example if you need to increase speed.

8 Customer Accounts

All your Accounts are visible from Accounts panel. From here you can access and see each account specific Account Info, Manage Account limits, see Customer Details and Photo or Invoice for the post paid account. All you need is to click on the Account in the list.



The screenshot shows the 'Accounts' management interface. On the left is a navigation menu with icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main area features a table of accounts and several control buttons.

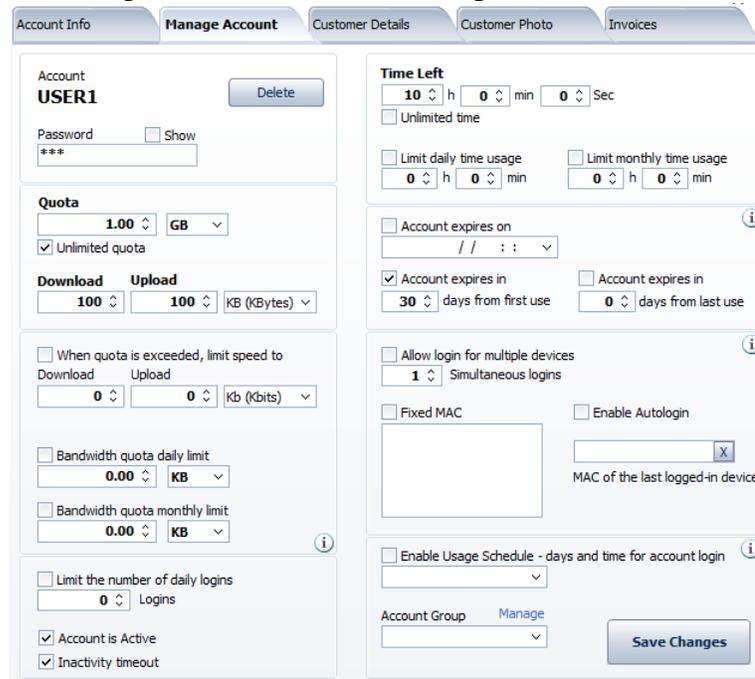
Account	Type	IP address	Status	Time	Quota	Expiration	LastUsed
USER 1	Prepaid		•	10:00	Unlimited		
USER 2	Postpaid		•	Unlimited	Unlimited		
UNLIMITED	Prepaid		•	Unlimited	Unlimited		
GUEST 1	Prepaid		•	20:00	Unlimited		
GUEST 2	Postpaid		•	Unlimited	Unlimited		
USER 3	Prepaid		•	0:15	Unlimited		
USER 4	Prepaid		•	0:15	Unlimited		
USER 5	Prepaid		•	0:15	Unlimited		
USER 6	Prepaid		•	0:15	Unlimited		
USER 7	Prepaid		•	0:15	Unlimited		
USER 8	Prepaid		•	0:15	Unlimited		
USER 9	Prepaid		•	0:15	Unlimited		
USER 10	Prepaid		•	0:15	Unlimited		
USER 11	Prepaid		•	0:15	Unlimited		
USER 12	Prepaid		•	0:15	Unlimited		
GUESTS 11	Prepaid		•	0:15	Unlimited		
GUESTS 12	Prepaid		•	0:15	Unlimited		
GUESTS 13	Prepaid		•	0:15	Unlimited		
GUESTS 14	Prepaid		•	0:15	Unlimited		
GUESTS 15	Prepaid		•	0:15	Unlimited		
GUESTS 16	Prepaid		•	0:15	Unlimited		
GUESTS 17	Prepaid		•	0:15	Unlimited		
GUESTS 18	Prepaid		•	0:15	Unlimited		
GUESTS 19	Prepaid		•	0:15	Unlimited		

Buttons: All Accounts, Free Access, Generate Accounts, Update Accounts, Print and Export, Search.

Summary: Accounts 25, Online, Download, Upload.

8.2 Manage Generated Account

Current account limits can be changed and modified from **Manage Account** tab.



- Account** Account username is created in process of account creation and can not be changed
- Password** Account password is hidden by default. Enable **Show Password** to see account password. To change client password replace old password with new one and press **Save Changes** button
- Delete** Delete account from database
- Quota** Total bandwidth traffic available to user for downloading or uploading. It is usually displayed MB, GB or TB depending on value. Quota is not a sum of download and upload traffic. If you define 100 GB as quota, user can download and upload maximum of 100 GB, whichever comes first. To modify quota, please adjust this value and press **Save Changes** button
- Unlimited Quota** Enable this option if you do not wish to limit selected user by bandwidth quota
- Download** Download rate can be adjusted for each user separately
- Upload** Upload rate can be adjusted for each user separately
- When quota is exceeded, limit download speed to** When user reach quota limit set download speed to __

When quota is exceeded, limit upload speed to	When user reach quota limit set upload speed to __
Bandwidth quota daily limit	Total bandwidth traffic available to a user on daily basis. When all daily quota is used, a user can login on the next day
Bandwidth quota monthly limit	Total bandwidth traffic available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
Limit number of daily logins	Limit how many times a user can login on daily basis
Account is active	This option defines wether user can login in HotSpot. With this option you can temporary disable selected customer. For example, excessive download, bill payment is late etc.
Inactivity timeout	Automatically disconnect selected user from the Internet after specified time of inactivity
Time Left	Shows remaining time for Internet usage. To modify time left, please adjust this value and press Save Changes button
Unlimited Time	Enable this option if you do not wish to limit selected user by time
Limit daily time usage	Total time available for the Internet usage on daily basis. When all daily time is used, a user can login on the next day
Limit monthly time usage	Total time available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
Account expires on	Specify the date when an account expires. After the expiration date the account can not be used anymore for login and a user will see a message that the account has expired
Accounts expires in _ days from first usage	Number of days in which will an account expire from the first login. For example, if you set to 10 days, and a user will not be able to login on 11th day from first login
Accounts expires in _ days from last usage	Number of days in which will an account expire from the last login. For example, if you set to 10 days, and a user does not login in the next 11 days, the account will expire
Allow login for multiple computers and devices	This option allows more than one user (device) to login with the same account. The users sharing one account also share the total download and upload rate. For example, 100 KB/s can be used by one user, or it can be used for 10 users to have approximately 10 KB/s each.
Fixed MAC	Limit an account so it can login only from the devices you specify. If MAC address does not exist yet, it will be stored in the first login. This list also determines which

devices will be able to use [Autologin](#)^[17] feature.

Enable Autologin

Enable [Autologin](#)^[17] feature for account.

Enable Usage schedule - days and time for account login

Specify time period when an account can login. Day and time rules are defined from [Usage Schedule](#)^[64]. This option can be used for example to allow login for account from 8AM to 8PM, or only on weekends, or to force the users to logout at midnight.

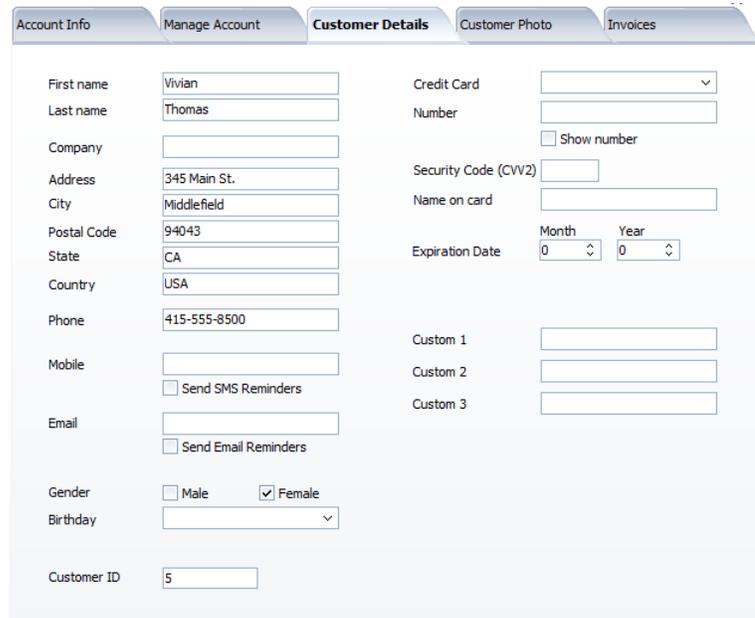
Account Group

Define a group for this account. This option is useful for later bulk updating of the accounts, for example if you need to increase speed.

8.3 Customer Details

Customer Details page contains customer personal information and creates valuable addition to the rest of the account options.

Details available on Customer Details page are displayed in screenshot:



Details include:

- First and last name,
- address, city, postal code, state, country, company
- customer ID,
- phone and mobile number with an option to send SMS Reminders
- Email addresses with an option to send Email Reminders
- gender and birthday
- credit Card information

Antamedia HotSpot has an ability to force a user to enter **personal data** after login. You can do it in order to verify customer identity, in marketing purposes, or just to send expiration reminder message so that a customer can upgrade in time.

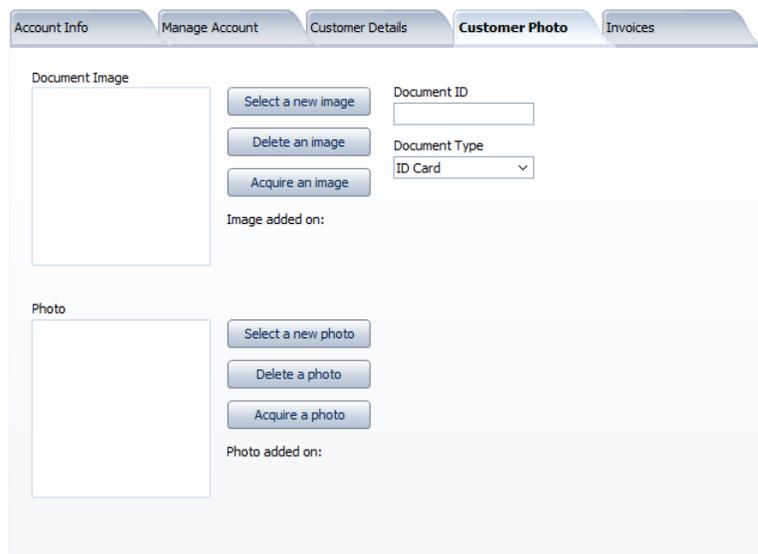
Collected personal details are: first and the last name, address, city, postal code, state, country, phone number, Email address

To activate this feature, please [Enable collecting customer data](#)¹¹⁵ option.

8.4 Customer Photo

Antamedia HotSpot goes beyond the usual personal data collection and provides an option to save customer photo, document image and document details. This is especially useful in the countries with anti-terrorism laws, where all users have to provide identification document.

With options provided by HotSpot, you can save customer **ID Card, Passport, Driver licence** etc. Picture can be loaded from hard drive, or it can be acquired from any twain compatible device, like scanner, web camera etc. The same applies to **Customer Photo**. We recommend keeping pictures in appropriate sizes since large scanned documents can quickly increase database size.



The screenshot shows a web interface for managing customer photos and documents. At the top, there are five tabs: "Account Info", "Manage Account", "Customer Details", "Customer Photo" (which is active), and "Invoices".

The "Customer Photo" section is divided into two main areas:

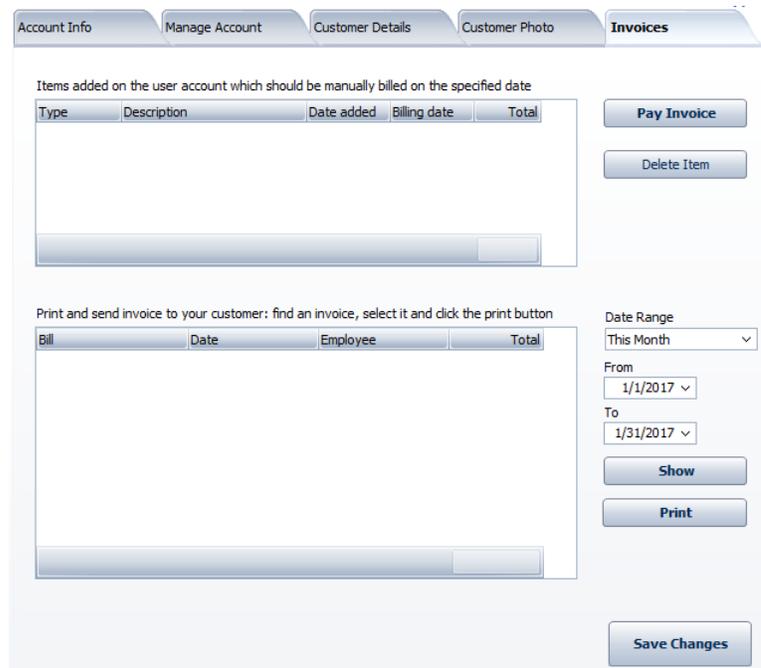
- Document Image:** This area contains a large empty box for the image. To its right are three buttons: "Select a new image", "Delete an image", and "Acquire an image". Below these buttons is the text "Image added on:". To the right of the image box are two input fields: "Document ID" (a text box) and "Document Type" (a dropdown menu currently showing "ID Card").
- Photo:** This area contains another large empty box for the photo. To its right are three buttons: "Select a new photo", "Delete a photo", and "Acquire a photo". Below these buttons is the text "Photo added on:".

8.5 Invoices

From this screen you can review and manage the items added to usage based account or bill a postpaid user. When you generate a postpaid account invoice will be also generated automatically with billing date set same as account expiry date. On that date you can manually charge the user, after that press **Pay Invoice** button in order to record the sale.

How to charge customer with usage based account:

1. Generate and issue usage based account to customer
2. When you to charge the customer, go to **Accounts** screen, select account and on **Account Info** page click **Add to Invoice** button
3. Go to **Invoices** screen and review items that are waiting to be billed, note that all items in this list will belong to same invoice
4. After you receive payment, click **Pay Invoice** button
5. Invoice will be generated, it will appear in list on same page and in HotSpot - Statistics - Bills page.
6. You can print and/or send invoice to customer by clicking **Print** button



The screenshot shows the 'Invoices' tab selected in a navigation bar. Below the navigation bar, there are two main sections:

- Items added on the user account which should be manually billed on the specified date:** This section contains a table with columns: Type, Description, Date added, Billing date, and Total. Below the table is a 'Pay Invoice' button and a 'Delete Item' button.
- Print and send invoice to your customer: find an invoice, select it and click the print button:** This section contains a table with columns: Bill, Date, Employee, and Total. To the right of this table is a 'Date Range' dropdown menu set to 'This Month', and two date input fields labeled 'From' (1/1/2017) and 'To' (1/31/2017). Below these are 'Show' and 'Print' buttons.

At the bottom right of the interface is a 'Save Changes' button.

8.6 Updating Accounts

Update account option is used to update all or the group of accounts in the database with specified values. In order to perform the update, go to HotSpot - Accounts section and press **Update Accounts** button. Configure desired values.

If you need to update only a group of accounts, select needed group from **AccountGroup** field. Note that account group must be defined and applied before accounts are generated. This is done from generate options page.

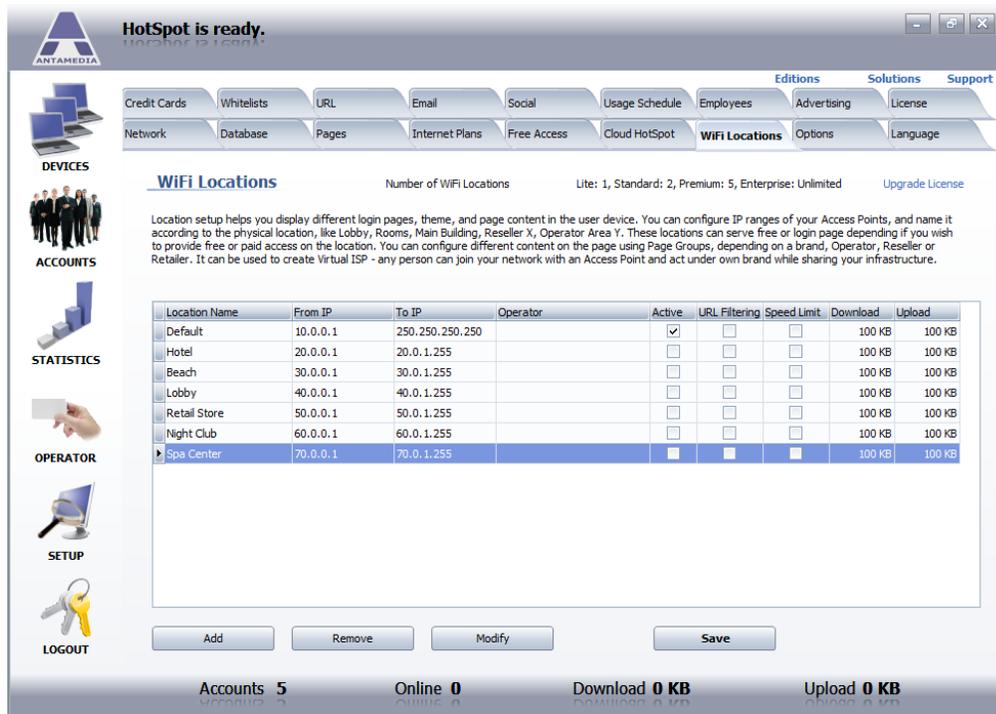
Click on **Update all accounts** button to perform update after needed options are set.

Update all accounts in the database with selected values

<input type="checkbox"/> Download 10 KB/s	<input type="checkbox"/> Bandwidth quota daily limit 0.00 MB
<input type="checkbox"/> Upload 10 KB/s	<input type="checkbox"/> Bandwidth quota monthly limit 0.00 MB
<input type="checkbox"/> Quota 100 MB	<input type="checkbox"/> Limit daily time usage 10 h 0 min
<input type="checkbox"/> Unlimited quota	<input type="checkbox"/> Limit monthly time usage 10 h 0 min
<input type="checkbox"/> Time 0 h 0 min 0 sec	<input type="checkbox"/> Allow login for multiple computers and devices 3 Simultaneous logins
<input type="checkbox"/> Unlimited time	<input type="checkbox"/> Enable Usage Schedule - days and time for account login
<input type="checkbox"/> Expiration 1/29/2017 11:54:57 PM	<input type="checkbox"/> Account Group Manage
<input type="checkbox"/> Limit number of daily logins 30 Logins	
<input checked="" type="checkbox"/> Account is Active	
<input checked="" type="checkbox"/> Inactivity timeout	
<input type="checkbox"/> Autologin	

9 WiFi Locations

WiFi locations are used to display different login pages and themes in the user device, depending from which access point customer is trying to access the Internet. Each location is defined with IP range of the Access Points associated. It has a name according to physical location, like Lobby, Rooms, Main building, Reseller X, Operator Area Y. Locations can be configured to display free access or login page, depending if you wish to provide free or paid access. For example, in a hotel lobby you can provide a free service, while in the rooms you can offer only paid service. You can configure different content on the pages depending on a brand, Reseller, Operator or Retailer. It can be used to create Virtual ISP - any person can join your network with an Access Point and act under own brand while sharing your infrastructure.



WiFi Locations Number of WiFi Locations Lite: 1, Standard: 2, Premium: 5, Enterprise: Unlimited [Upgrade License](#)

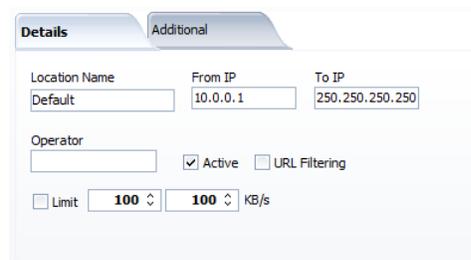
Location setup helps you display different login pages, theme, and page content in the user device. You can configure IP ranges of your Access Points, and name it according to the physical location, like Lobby, Rooms, Main Building, Reseller X, Operator Area Y. These locations can serve free or login page depending if you wish to provide free or paid access on the location. You can configure different content on the page using Page Groups, depending on a brand, Operator, Reseller or Retailer. It can be used to create Virtual ISP - any person can join your network with an Access Point and act under own brand while sharing your infrastructure.

Location Name	From IP	To IP	Operator	Active	URL Filtering	Speed Limit	Download	Upload
Default	10.0.0.1	250.250.250.250		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Hotel	20.0.0.1	20.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Beach	30.0.0.1	30.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Lobby	40.0.0.1	40.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Retail Store	50.0.0.1	50.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Night Club	60.0.0.1	60.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB
Spa Center	70.0.0.1	70.0.1.255		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100 KB	100 KB

Accounts **5** Online **0** Download **0 KB** Upload **0 KB**

To create a new location go to HotSpot - Setup - WiFi Locations page. Select any of locations in list to get **Details** tab.

From Details tab configure Location Name, starting and ending IP addresses. Operator's name for location, URL Filtering and Limit is optional.



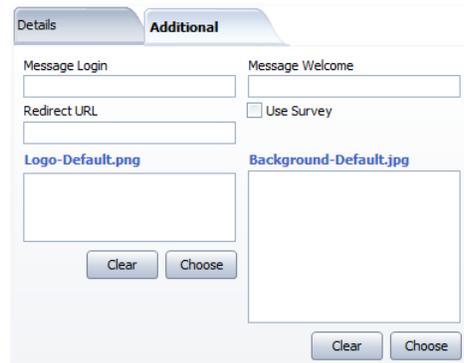
Details Additional

Location Name:
From IP:
To IP:

Operator:
 Active URL Filtering

Limit KB/s

From Additional tab is configure Login message, Welcome message, different Redirect URL after login, activate Quick Survey, change Logo and Background for the location. Click **Add** and **Save** button to apply changes.



Locations feature can be used in 2 scenarios:

1. Within the local network (LAN) where HotSpot server resides. HotSpot can be set up so that each location (an Access Point or group of them) displays login page with different settings (theme, free access/paid etc.). This functionality requires that all Access Points support DHCP server feature.
2. In Wide area network (WAN), routers on remote sites will connect to a centralized HotSpot server. Each one of these routers can represent a location in HotSpot with its own login page settings. HotSpot Cloud feature and compatible routers are required.

HotSpot software supports setting up both scenarios at the same time, if all requirements are fulfilled.

The following example will explain typical first scenario setup and give you an idea how to configure locations in a Hotel.

Hotel's Hotspot server will be configured to display different type of login pages in the lobby, restaurant and rooms. In the lobby Hotspot login page should contain only ticket login form. Restaurant will provide free access with a predefined keyword. In the rooms guests will get a page with account login form and sign-up link. Alternatively, it can be switched to PMS Hotel login form, where a guest may authenticate using a room number and a guest name (PMS Interface module is required in this case).

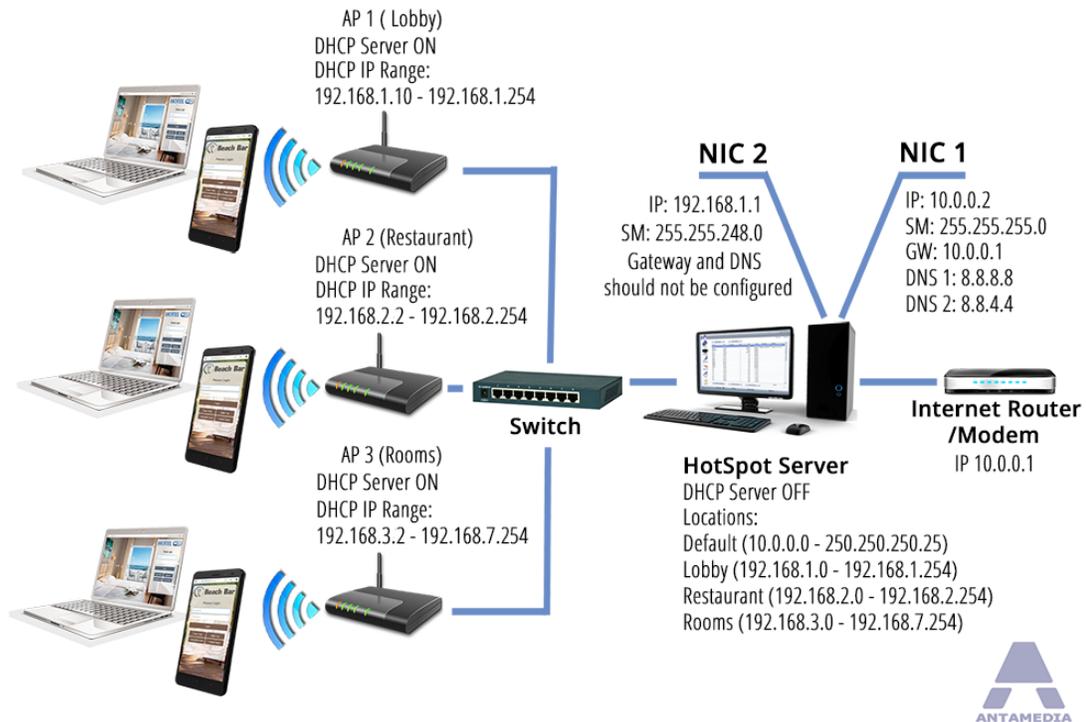


Diagram of the example network

This scenario can be configured with the following steps:

1. Hotspot network needs to be designed using the same principles as an example network diagram
2. IP range for each access point (location) has to be configured on HotSpot - Setup - WiFi Locations page
3. Access point on each location has to be set to act as DHCP server, with IP pool range configured to match the IP range configured for that location in Hotspot.
4. Login page settings should be configured for each location, this is done from HotSpot - Setup - Pages - Default page screen:
 - 4a. Select the location for which you want to define page rules
 - 4b. Choose type and subtype of the default page.
 - 4c. Select **Sign Up** method
 - 4d. Configure Theme settings
 - 4e. Click **Save** button

After the procedure is completed, users in each location should get a different login page, according to configured settings.

10 Operator Panel

HotSpot Operator is a feature specially developed to keep account creation simple. Very intuitive user interface will guide an employee through 3 simple steps which significantly decreases learning time and everyday account creating.

This feature is available in all HotSpot Editions and can be accessed through the main screen by clicking **OPERATOR** button.

However, you can have **multiple** HotSpot Operators at the same time and on different physical locations. For this purpose, additional HotSpot Operator licenses are required, which can be purchased on Antamedia website.

How can this help you ?

- Allow front desk operators to generate accounts without access to sensitive data
- Hotel reception can generate accounts while main HotSpot is located in secured place (server room)
- Resorts can install multiple HotSpot Operator software in each building, effectively connecting entire resort in one network. As soon as one of the Operators create an account, it can be used in the entire network
- Administrator can use it to generate, modify or delete accounts, view bills and statistics, generate reports, make new employee accounts, configure price plans, send email notifications (account expiry or maintenance reminders)
- Owner can monitor HotSpot activity from home, take a look at sales, logs, statistics

The most important aspect of additional Operator licenses is that they protect the main HotSpot gateway from human activities that can cause downtime. Keeping main HotSpot on a secure place is recommended as it minimizes the problems like:

- viruses or bad software downloaded by employees which can lower the Internet bandwidth and destabilize the system
- multiple programs started by employees which increase CPU usage
- accidental reboots etc.

Please note: Additional HotSpot Operator license can not be used as standalone, to control users and data transfer. It does not provide captive portal functionality (does not display login page). It requires main HotSpot software installed.

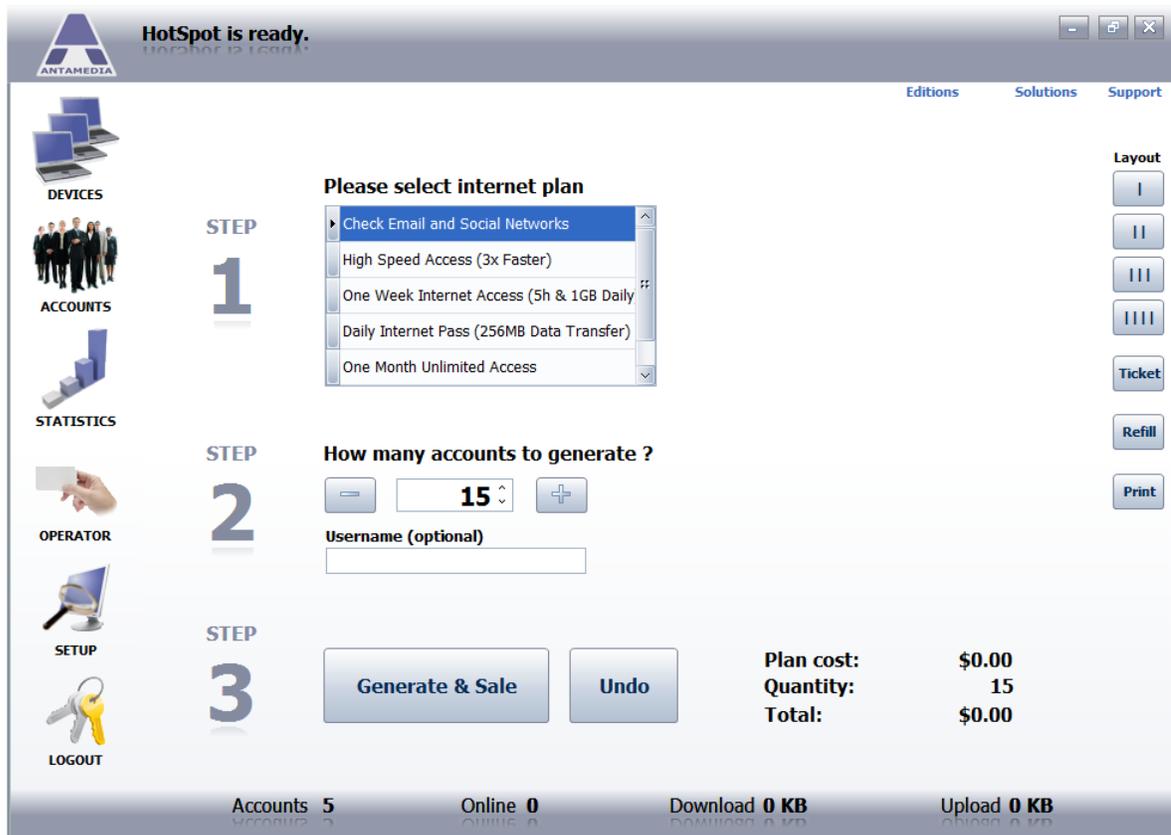
10.1 User Interface

User interface is very simple and easy, and it is designed keeping in mind inexperienced staff. Accounts are generated in 3 easy steps:

1. Choose **Internet Plan**
2. Choose **How many accounts to generate**
3. Click **Generate** button

User interface is touch screen friendly with large buttons, and several layout configurations. Printing is optional and it can be turned on or off with a single click.

An operator can choose between several screen layouts showing 3 steps to generate accounts, tickets or refills with smaller or larger price plan list, price plan cost and total amount to bill, and optionally display or hide generated accounts with username and password.



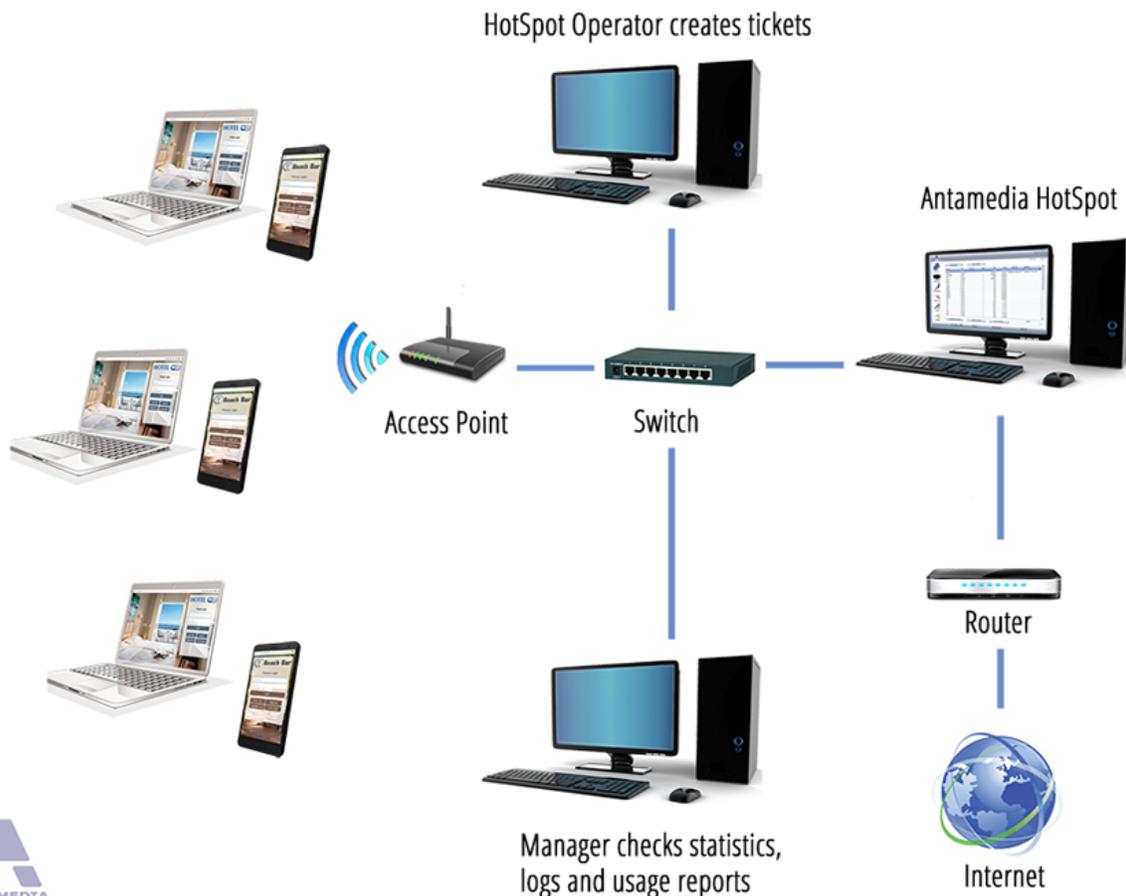
10.2 Remote Operator

Main HotSpot software acts as a gateway - it will accept traffic to one network card, analyze it, and if a customer is allowed to browse, it will pass traffic to the second network card connected to the Internet using preferred line (ADSL, Cable, WiFi...).

Topology shows scenario where 2 additional HotSpot Operator licenses are deployed. First HotSpot Operator license is used for front desk staff to generate tickets. Operator is allowed only to generate and print customers tickets. Typical usage would be in restaurants, hotels, resorts etc.

Second HotSpot Operator license is used for Manager which is allowed to see current statistics including bills, activity logs, real time usage statistics, with time, bandwidth, number of logins and sales details, and the report usage with session based statistics (username, IP, MAC, login and logout time, time used, data transferred and sale made).

If preferred, this topology can easily include the third HotSpot Operator license, which can be used for Administrator (or HotSpot business owner) which has an access to all other features. Administrator can be located at home or in different country, and perform required tasks.



HotSpot Operator installation

A few notes before installation:

- If Hotspot Operator is located in remote location and connects to Hotspot server over Internet, it is required to set static public IP address on the main Hotspot server.
- Install Operator from the same installer as main Hotspot software, they have to be the exact same version.
- Make sure that all firewalls between main Hotspot PC and Operator PC have port TCP 12010 open.
- Operator must be installed and used on Windows account with administrative privileges.

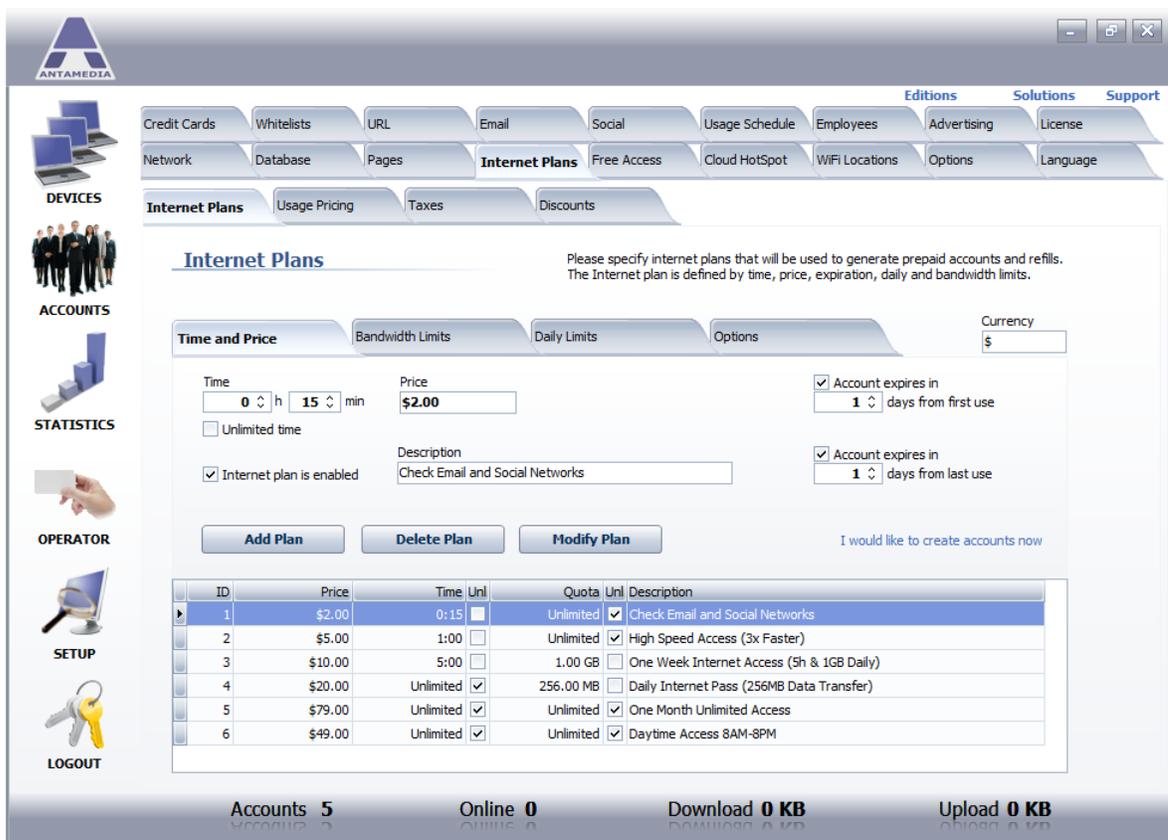
Installation procedure:

1. Start Hotspot installer on the Operator PC and select Custom Installation.
2. Select Hotspot Operator.
3. Enter main server IP in the window and click Run when button appears.

11 Internet Plans

11.1 Defining an Internet Plan

Internet plan is a preset of values which are assigned when you generate or refill accounts. For example, Internet plan defines price which customer should pay for specified time usage, data transferred, download and upload rate, but may also define the expiration date, daily limits etc. When you generate user accounts, tickets and refills, the values defined by Internet plan are stored in database for each account. If you refill an account with a Internet plan, time and quota values are added to the current account values. If a Internet plan has unlimited settings for time and quota, an account will also become unlimited for these values. Download and upload rate, the expiration date and other values defined by Internet plan used for refill, are assigned to the account no matter which values the account has had before.



Internet Plans

Please specify internet plans that will be used to generate prepaid accounts and refills. The Internet plan is defined by time, price, expiration, daily and bandwidth limits.

Time and Price | Bandwidth Limits | Daily Limits | Options | Currency: \$

Time: 0 h 15 min | Price: \$2.00 | Account expires in 1 days from first use

Unlimited time | Description: Check Email and Social Networks | Account expires in 1 days from last use

Internet plan is enabled

[Add Plan](#) | [Delete Plan](#) | [Modify Plan](#) | [I would like to create accounts now](#)

ID	Price	Time	Unl	Quota	Unl	Description
1	\$2.00	0:15	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Check Email and Social Networks
2	\$5.00	1:00	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	High Speed Access (3x Faster)
3	\$10.00	5:00	<input type="checkbox"/>	1.00 GB	<input type="checkbox"/>	One Week Internet Access (5h & 1GB Daily)
4	\$20.00	Unlimited	<input checked="" type="checkbox"/>	256.00 MB	<input type="checkbox"/>	Daily Internet Pass (256MB Data Transfer)
5	\$79.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	One Month Unlimited Access
6	\$49.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Daytime Access 8AM-8PM

Accounts 5 | Online 0 | Download 0 KB | Upload 0 KB

Add Plan Creates new Internet plan

Delete Plan Deletes selected Internet plan

Modify Plan Modifies selected Internet plan. When you make changes to Internet plan, please click on this button to save it

Internet plan options on HotSpot software - Setup - Prices - Internet Plans page are:

Time	Time available for the Internet usage. It is measured in seconds
Unlimited Time	Enable this option if you do not wish to limit users by time. It is useful if you charge users by bandwidth or users pay monthly fees
Price	Cost of selected Internet plan. If tax is not specified, this is what customer pays
Description	Description is displayed in list from where operator chooses which Internet plan to select
Internet plan is enabled	If selected Internet plan is active and can be used for account generating
Accounts expires in _ days from first usage	Number of days in which will an account expire from the first login. For example, if you set to 10 days, and a user will not be able to login on 11th day from first login
Accounts expires in _ days from last usage	Number of days in which will an account expire from the last login. For example, if you set to 10 days, and a user does not login in the next 11 days, the account will expire

Antamedia HotSpot creates default Internet plans on first installation so you can have a better idea of the possibilities. You can modify them, or create totally new Internet plans. The number of Internet plans in database is not limited.

11.2 Bandwidth Limits

Bandwidth Limits page contains the following options:

Bandwidth quota Total bandwidth traffic available to a user for downloading or uploading. It is usually displayed MB, GB or TB depending on value. Quota is not a sum of download and upload traffic. If you define 100 GB as quota, a user can download and upload maximum of 100 GB,, whichever comes first

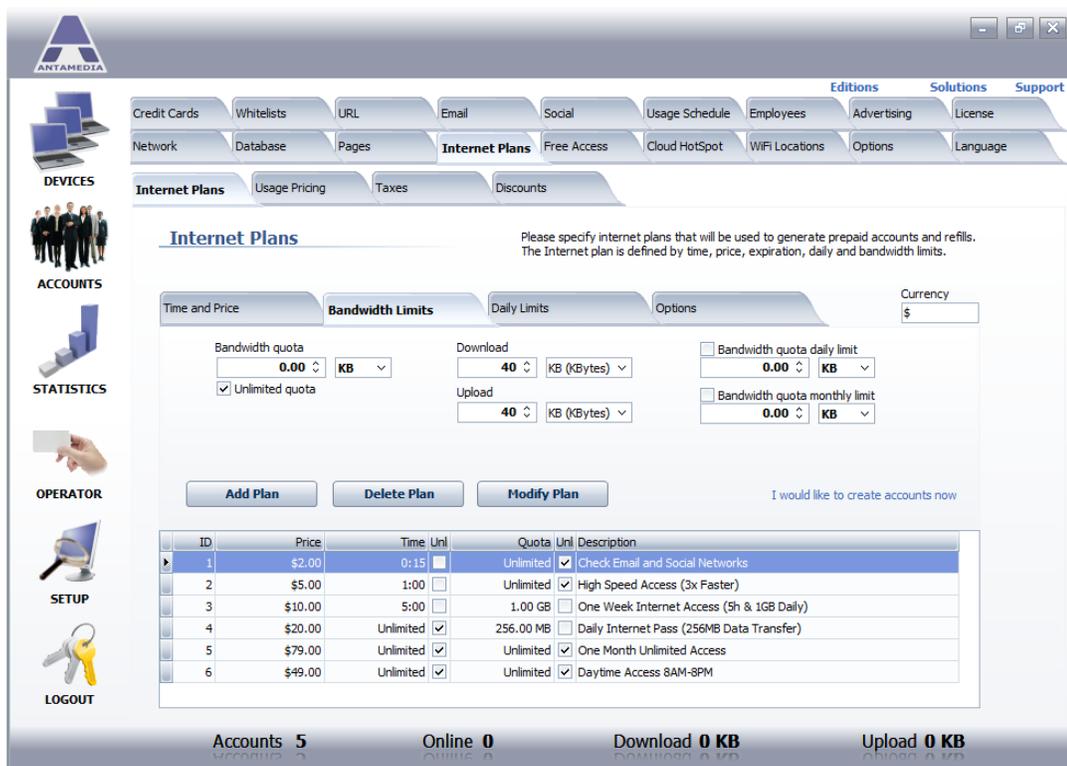
Unlimited Quota Enable this option if you do not wish to limit users by bandwidth quota

Download Download rate can be adjusted for each user separately

Upload Upload rate can be adjusted for each user separately

Bandwidth quota daily limit Total bandwidth traffic available to user on daily basis. When all daily quota is used, a user can login on the next day

Bandwidth quota monthly limit Total bandwidth traffic available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.



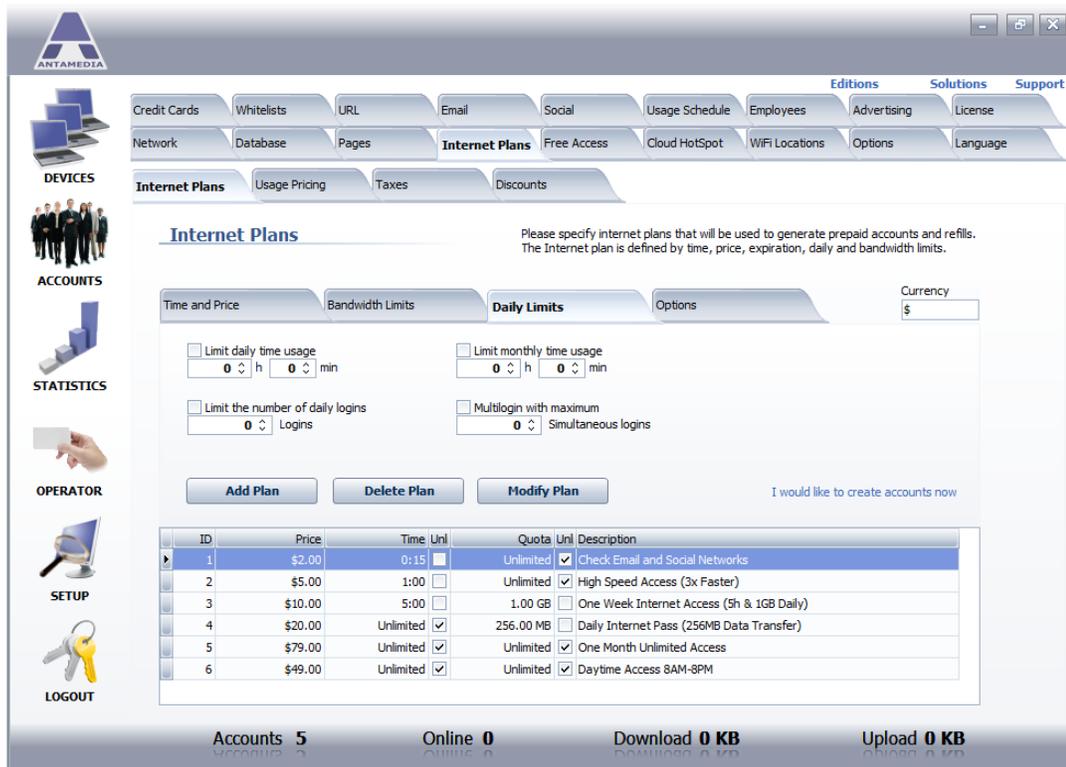
The screenshot shows the 'Internet Plans' configuration page in the Antamedia management interface. The 'Bandwidth Limits' tab is active, showing settings for bandwidth quota, download/upload rates, and daily/monthly limits. Below the settings is a table of existing internet plans.

ID	Price	Time	Unl	Quota	Unl	Description
1	\$2.00	0:15	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Check Email and Social Networks
2	\$5.00	1:00	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	High Speed Access (3x Faster)
3	\$10.00	5:00	<input type="checkbox"/>	1.00 GB	<input type="checkbox"/>	One Week Internet Access (5h & 1GB Daily)
4	\$20.00	Unlimited	<input checked="" type="checkbox"/>	256.00 MB	<input type="checkbox"/>	Daily Internet Pass (256MB Data Transfer)
5	\$79.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	One Month Unlimited Access
6	\$49.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Daytime Access 8AM-8PM

At the bottom of the page, summary statistics are displayed: Accounts 5, Online 0, Download 0 KB, and Upload 0 KB.

and **Daily Limits** page contains the following options:

- Limit daily time usage** Total time available for the Internet usage on daily basis. When all day time is used, a user can login on the next day
- Limit number of daily logins** Limit how many times user can login on daily basis
- Limit monthly time usage** Total time available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
- Multilogin with maximum simultaneous logins** Multilogin option allows more than one user (computer) to login with the same account. Users sharing one account also shares total download and upload rate. For example, 100 KB/s can be used by one user, or it can be used for 10 users to have approximately 10 KB/s each



The screenshot shows the 'Internet Plans' configuration page in the Antamedia HotSpot Management Interface. The page includes a navigation menu on the left with categories like DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area has tabs for 'Time and Price', 'Bandwidth Limits', 'Daily Limits', and 'Options'. The 'Daily Limits' tab is active, showing options to limit daily and monthly time usage, the number of daily logins, and multilogin with maximum simultaneous logins. Below these options are 'Add Plan', 'Delete Plan', and 'Modify Plan' buttons. A table lists existing internet plans with columns for ID, Price, Time, Unl, Quota, Unl, and Description. At the bottom, there are status indicators for Accounts (5), Online (0), Download (0 KB), and Upload (0 KB).

ID	Price	Time	Unl	Quota	Unl	Description
1	\$2.00	0:15	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Check Email and Social Networks
2	\$5.00	1:00	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	High Speed Access (3x Faster)
3	\$10.00	5:00	<input type="checkbox"/>	1.00 GB	<input type="checkbox"/>	One Week Internet Access (5h & 1GB Daily)
4	\$20.00	Unlimited	<input checked="" type="checkbox"/>	256.00 MB	<input type="checkbox"/>	Daily Internet Pass (256MB Data Transfer)
5	\$79.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	One Month Unlimited Access
6	\$49.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Daytime Access 8AM-8PM

11.3 Additional Options

Options page contains the following options:

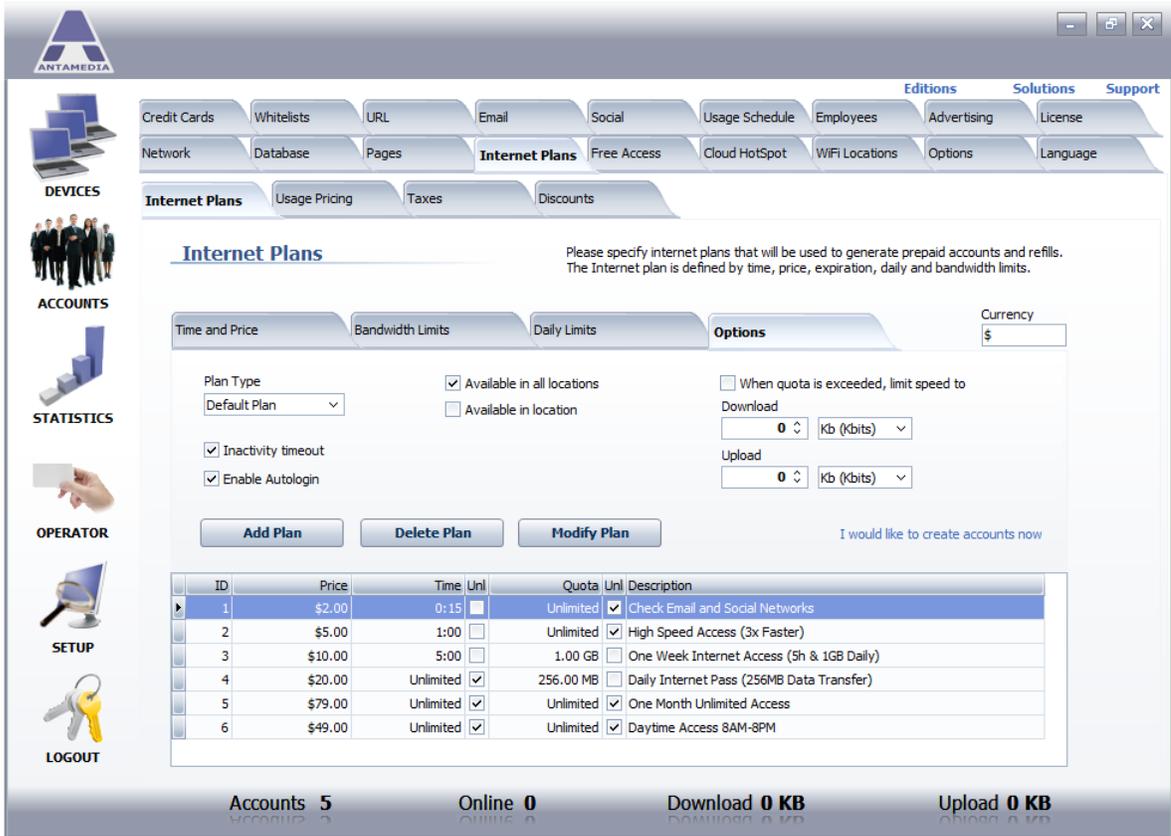
Plan Type Specify type of Internet plan, between Default, SignUp, Operator and Free plan

Inactivity Timeout Set to use inactivity timeout for this Internet plan or not

Enable Autologin Select option to use Autologin with Internet plan

Only for WiFi location / all locations Set specific location or all locations for which Internet Plan will be available

When quota is exceeded, limit speed Set sessions upload and download speed when quota limit is reached



Internet Plans

Please specify internet plans that will be used to generate prepaid accounts and refills. The Internet plan is defined by time, price, expiration, daily and bandwidth limits.

Time and Price | Bandwidth Limits | Daily Limits | **Options** | Currency: \$

Plan Type: Default Plan (dropdown)

Available in all locations
 Available in location

Inactivity timeout
 Enable Autologin

When quota is exceeded, limit speed to

Download: 0 Kb (Kbits) (dropdown)

Upload: 0 Kb (Kbits) (dropdown)

Buttons: Add Plan, Delete Plan, Modify Plan

I would like to create accounts now

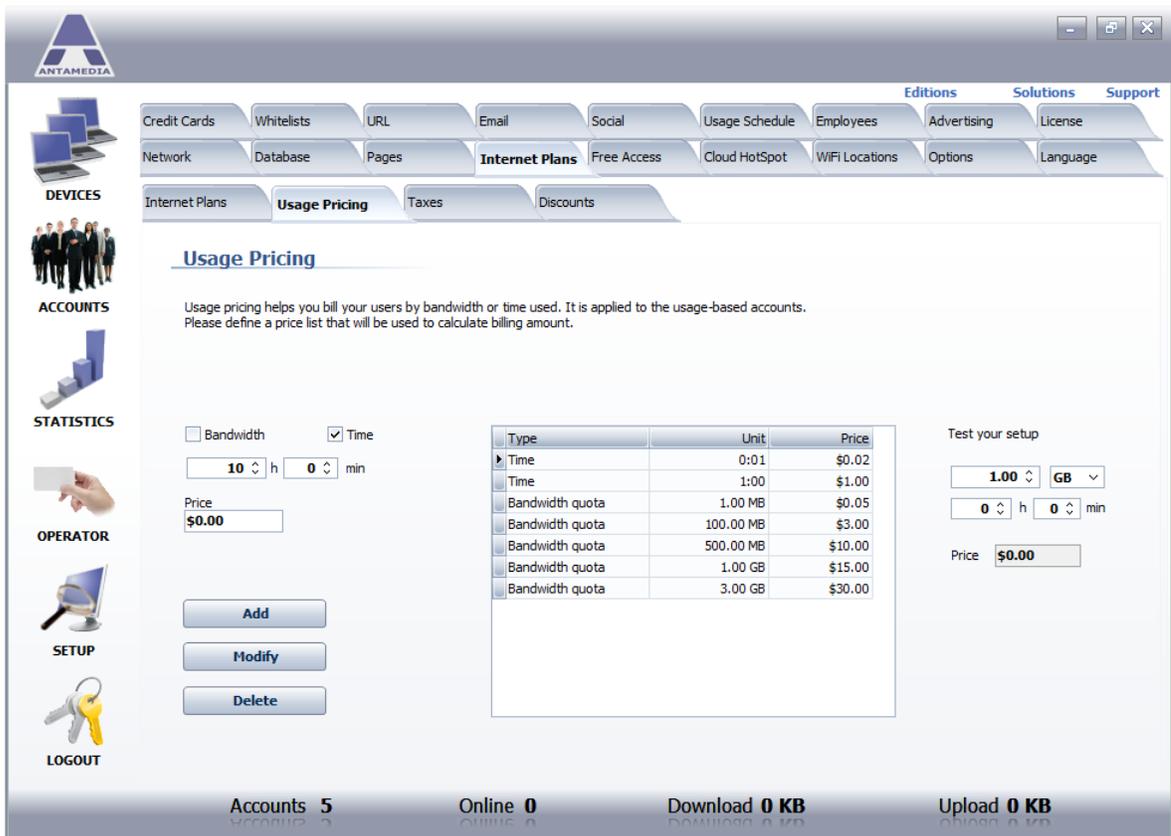
ID	Price	Time	Unl	Quota	Unl	Description
1	\$2.00	0:15	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Check Email and Social Networks
2	\$5.00	1:00	<input type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	High Speed Access (3x Faster)
3	\$10.00	5:00	<input type="checkbox"/>	1.00 GB	<input type="checkbox"/>	One Week Internet Access (5h & 1GB Daily)
4	\$20.00	Unlimited	<input checked="" type="checkbox"/>	256.00 MB	<input type="checkbox"/>	Daily Internet Pass (256MB Data Transfer)
5	\$79.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	One Month Unlimited Access
6	\$49.00	Unlimited	<input checked="" type="checkbox"/>	Unlimited	<input checked="" type="checkbox"/>	Daytime Access 8AM-8PM

Accounts: 5 | Online: 0 | Download: 0 KB | Upload: 0 KB

11.4 Usage pricing

Usage-based billing is a method of billing where a customer pays for time and data consumed. An account is created with initial zero values, and they increase during usage. At the end of desired time period customers can be billed based on measured consumption. To configure a new pricing rate, go to HotSpot - Setup - Internet Plans - Usage Pricing page:

1. Check **Bandwidth** or **Time** box to select type
2. Set desired amount
3. Set desired price
4. Click **Add** button



The screenshot shows the 'Usage Pricing' configuration page in the Antamedia HotSpot Management Interface. The page includes a navigation menu with options like 'Credit Cards', 'Whitelists', 'URL', 'Email', 'Social', 'Usage Schedule', 'Employees', 'Advertising', 'License', 'Network', 'Database', 'Pages', 'Internet Plans', 'Free Access', 'Cloud HotSpot', 'WiFi Locations', 'Options', and 'Language'. The 'Usage Pricing' tab is selected under the 'Internet Plans' section.

The main content area is titled 'Usage Pricing' and contains the following information:

- Usage Pricing**
- Usage pricing helps you bill your users by bandwidth or time used. It is applied to the usage-based accounts. Please define a price list that will be used to calculate billing amount.
- Bandwidth Time
- Amount: 10 h 0 min
- Price: \$0.00
- Buttons: Add, Modify, Delete
- Table of Usage Pricing Rates:**

Type	Unit	Price
Time	0:01	\$0.02
Time	1:00	\$1.00
Bandwidth quota	1.00 MB	\$0.05
Bandwidth quota	100.00 MB	\$3.00
Bandwidth quota	500.00 MB	\$10.00
Bandwidth quota	1.00 GB	\$15.00
Bandwidth quota	3.00 GB	\$30.00

Test your setup: 1.00 GB, 0 h 0 min, Price: \$0.00

Bottom status bar: Accounts 5, Online 0, Download 0 KB, Upload 0 KB

11.5 Taxes

If you are required to charge tax for your services, Antamedia HotSpot offers flexible tax setup. There are 3 different taxes to configure with tax on tax option.

Tax configuration examples:

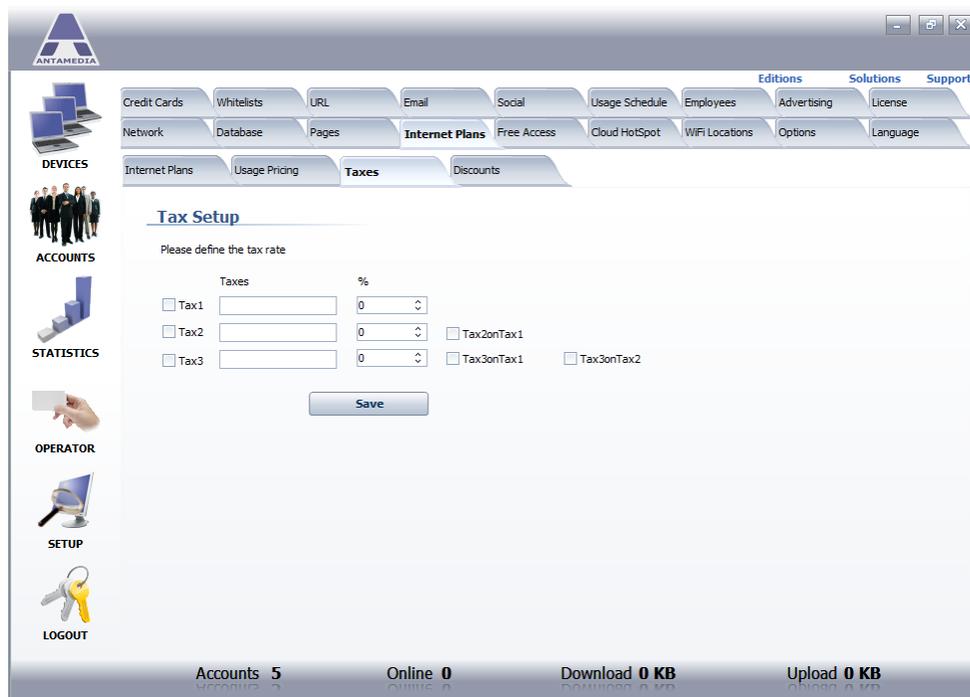
If you have single tax to charge:

1. enable **Tax1** and name it (like VAT)
3. configure **%** value
4. press **Save** button

If you have two different taxes to charge:

1. enable **Tax1** and name it (like VAT)
3. configure **%** value
4. enable **Tax2** and name it
6. configure **%** value
7. press **Save** button

If your country regulation requires second tax to be calculated as percent from the value of the first tax, please enable Tax2 on Tax1.



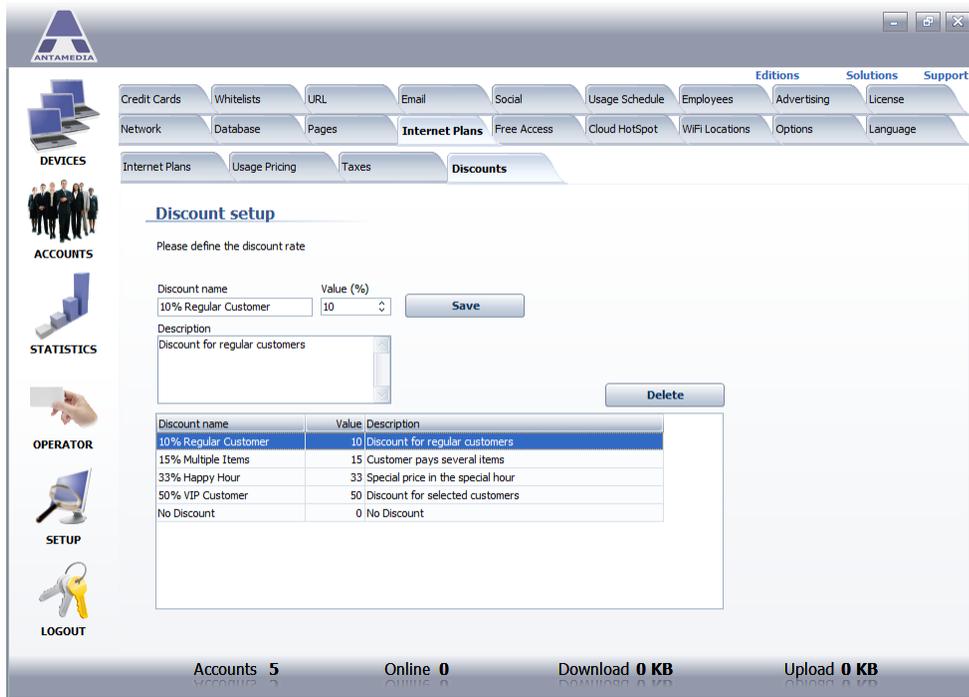
11.6 Discounts

Discount feature helps you offer discounts to your regular customers, for buying 10 tickets in advance, for daily promotions or similar reasons.

In the HotSpot - Setup - Prices - Discounts page please define different discount types. To define a discount:

1. Enter discount **name**
2. Specify discount **percent** (like 10 %)
3. Enter discount **description**
4. Press **Save** button

To delete a discount from the list, please select it with left mouse click and press **Delete** button.



The screenshot shows the 'Discounts' setup page in the Antamedia HotSpot Management Interface. The page title is 'Discount setup' and it prompts the user to 'Please define the discount rate'. There are input fields for 'Discount name' (containing '10% Regular Customer') and 'Value (%)' (containing '10'), along with a 'Save' button. Below this is a 'Description' field containing 'Discount for regular customers' and a 'Delete' button. A table lists existing discounts:

Discount name	Value	Description
10% Regular Customer	10	Discount for regular customers
15% Multiple Items	15	Customer pays several items
33% Happy Hour	33	Special price in the special hour
50% VIP Customer	50	Discount for selected customers
No Discount	0	No Discount

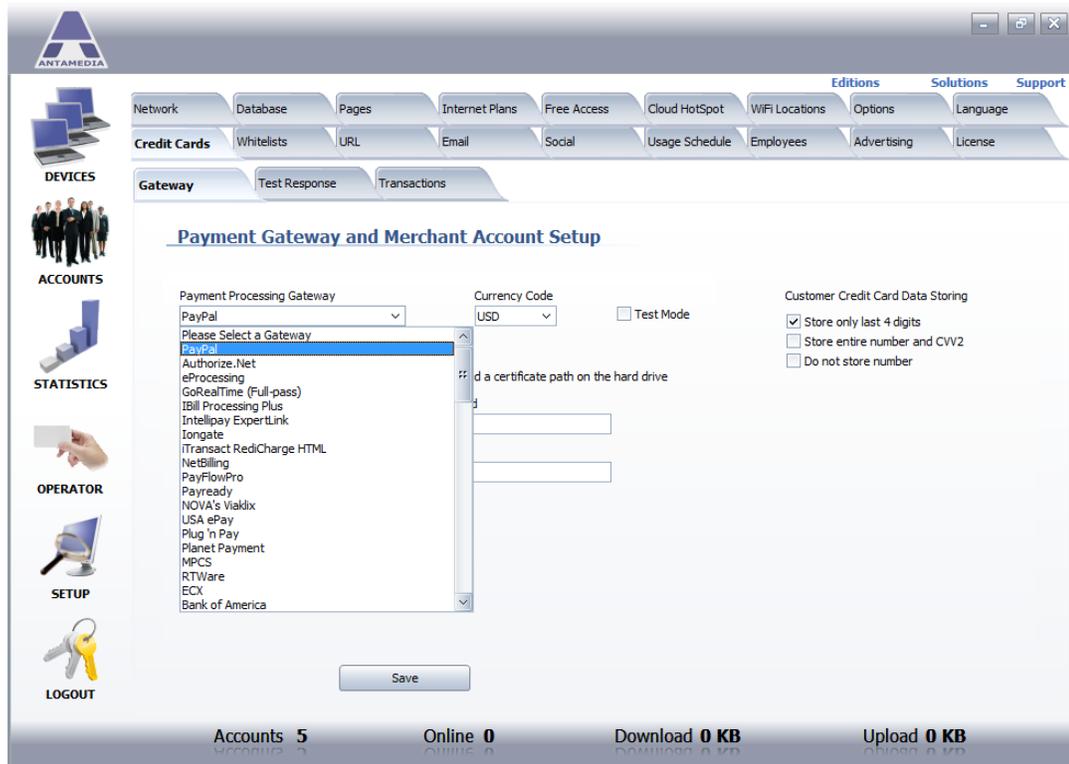
At the bottom of the interface, there are status indicators: Accounts 5, Online 0, Download 0 KB, and Upload 0 KB.

12 Credit Card Processing

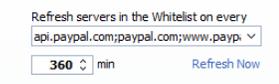
Credit card processing option is very important if you want to automate your HotSpot. With this option you can install unattended HotSpot gateway and our software will do all the job. Visitors who are willing to use your services can sign up for username and password, choose a price plan and pay with their credit card. The processing occurs within seconds and your customers are able to continue using your services.

Antamedia HotSpot offers different credit card processing gateways. Take a look at complete list of the [supported payment gateways](#) PCI DSS Compliance is ensured by allowing you to choose how/if you want to collect customers credit card details.

For payment gateway configuration, please go to HotSpot - Setup - Credit Cards - Gateway page and select **Payment Processing Gateway**



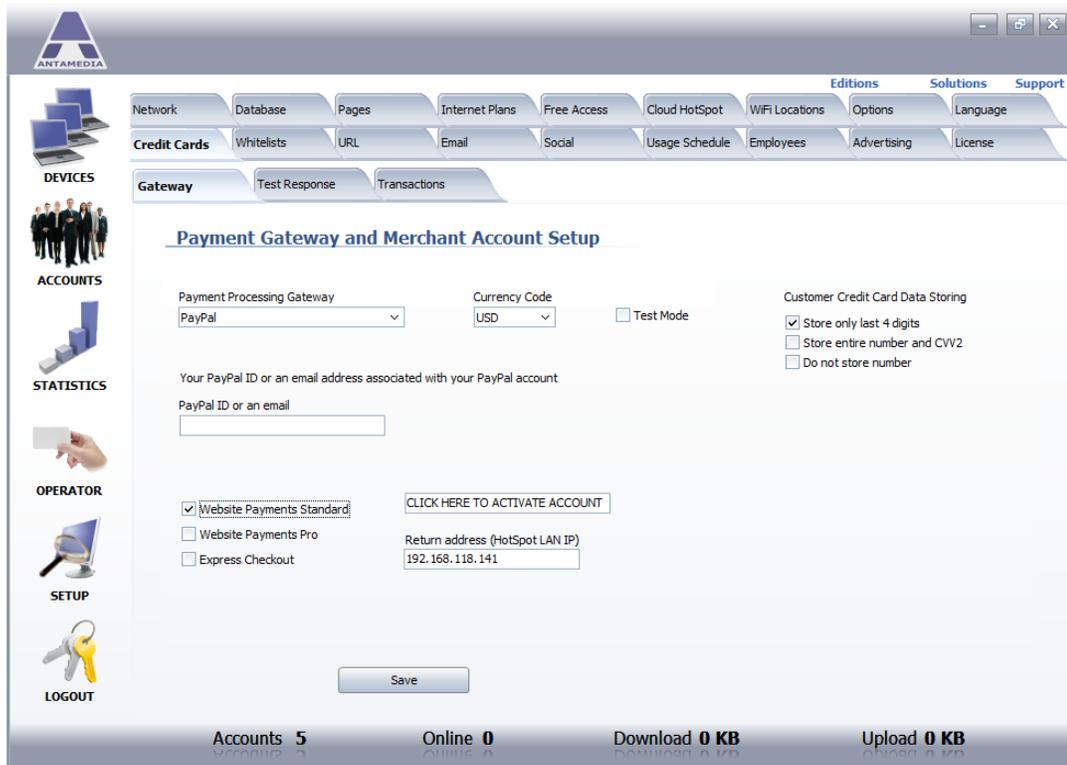
Payment gateways often requires whitelisting of their servers which are used during processing. Please click **Refresh Now** link from [Host Whitelist](#) ⁷⁰ page. After loading new servers to the list press on Save and restart HotSpot software.



12.1 PayPal

There are 3 PayPal processing options:

1. **Website Payments Standard** - payment is initiated on HotSpot page and completed on PayPal site. This method is the simplest to configure in HotSpot.



To configure **PayPal Website Payments Standard**, please follow these steps:

1. Select PayPal from **Payment Processing Gateway** drop-down menu
2. (Optional) Set currency that will be used for transaction
3. Enable **Website Payments Standard** checkbox
4. Enter PayPal ID or an email associated with your PayPal account
5. Make sure that **Return address** is the same as IP address of LAN (NIC2) network card
6. Click **Save** button

2. **Website Payments Pro** - payment is completed from our software and there is no need to transfer a customer to PayPal site. Processing is completed faster but this option requires PayPal account with Payments Pro option enabled which is usually charged monthly by PayPal.

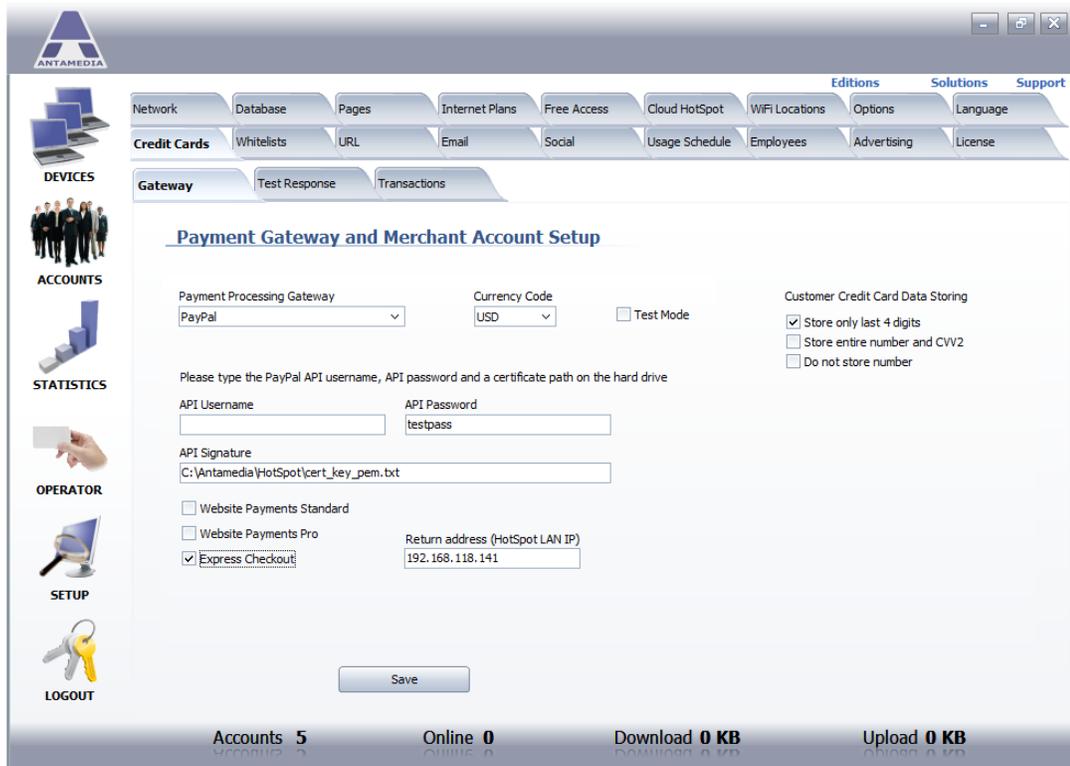
3. **Express Checkout** - payment is initiated on HotSpot pages and completed on PayPal site. Customer can use already existing PayPal account for the payment which significantly simplifies order, and the credit card payment is

available for new customers who do not have a PayPal account. [Paypal Express Checkout is available](#) in countries depending on the current PayPal regulation

Website Payments Pro and **Express Checkout** require PayPal API certificate:

1. Log in to PayPal, then click Profile under My Account.
2. Click My selling tools.
3. Click API Access.
4. Click Request API Credentials.
5. Check Request API certificate and click Agree and Submit.
6. Save the values for **API Username** and **API Password** for later use.
7. Click Download Certificate and save the file to Hotspot installation folder.
8. Rename this file to something familiar, such as paypal_live_cert.pem.

After saving certificate, you need to enter API Username, API Password and path to certificate file.



If you are not getting PayPal pages, or a response is very slow, please check at PayPal support what are the current requirements for host whitelisting since they sometimes change the servers involved in payment processing.

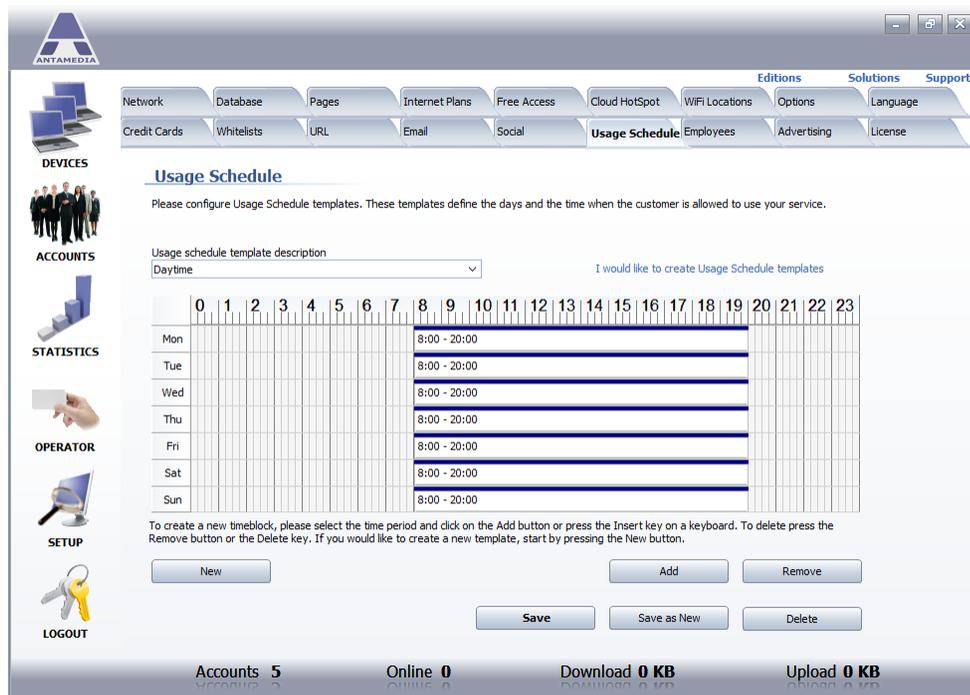
13 Usage Schedule

Usage schedule feature helps you define when the customers are allowed to use your services. Using a graphical interface you can draw the blocks which define the time intervals when your services can be used.

Graphical grid is displayed like daytime hours on one axis and the days in a week (Monday to Sunday) on the other axis. This provides the full control over the whole week. Blocks are displayed in 15 minute steps.

To create a new time block, please select a time period and click **Add button** or press Insert key on a keyboard. To delete time block, please press **Remove** button or Delete key on the keyboard. If you like to create a new template, you can start by pressing **New** button. To store template changes, please use **Save** button. To save new template use **Save As New** button and specify template name. Use **Delete** button to delete usage schedule template from the database. You can move the block by pressing and holding left mouse button on top blue bar.

Once you configure all the templates, you can assign them to desired accounts. To do this, please click on the account and go to **Manage Account** page. Enable the usage schedule for that account and choose a template. Press **Save Changes** button. From that moment, a customer may login and use your services only in time periods defined by the assigned usage schedule. For example, if customer may login from 8AM to 8PM, login will be possible within that interval, and if logged in, a customer will be automatically logged out at 8PM.



Usage Schedule

Please configure Usage Schedule templates. These templates define the days and the time when the customer is allowed to use your service.

Usage schedule template description: Daytime

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Mon									8:00 - 20:00															
Tue									8:00 - 20:00															
Wed									8:00 - 20:00															
Thu									8:00 - 20:00															
Fri									8:00 - 20:00															
Sat									8:00 - 20:00															
Sun									8:00 - 20:00															

To create a new timeblock, please select the time period and click on the Add button or press the Insert key on a keyboard. To delete press the Remove button or the Delete key. If you would like to create a new template, start by pressing the New button.

Buttons: New, Add, Remove, Save, Save as New, Delete

Accounts 5 Online 0 Download 0 KB Upload 0 KB

14 URL Tracking

14.1 URL Tracking

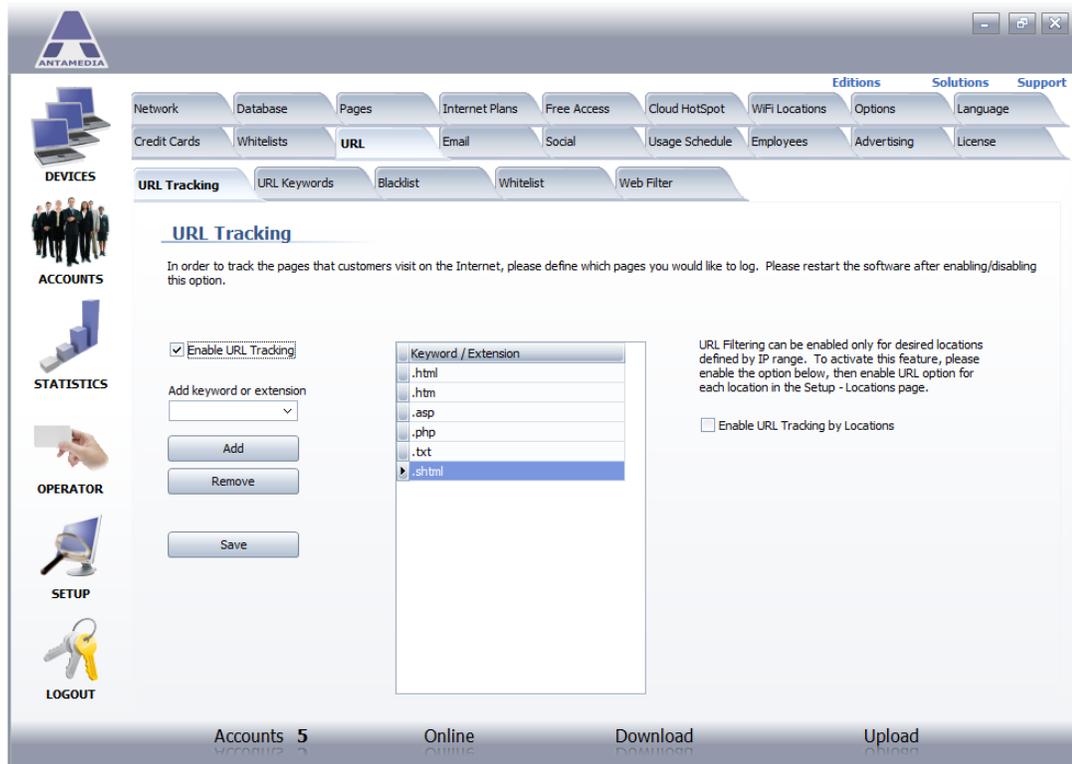
URL Tracking feature helps you track web pages which your customers visit on the Internet.

By default, HotSpot will track *.htm, *.html, *.asp, *.php, *.txt files, but you can modify the list or add new extensions. We do not recommend tracking graphic files (like *.jpg, *.gif ...) since this significantly increases the processing. Using URL tracking you can also track the web pages which include specified keyword.

HotSpot can also track URLs by location: if you need this feature please check **Enable URL Tracking by location** option, then enable URL option for needed locations from HotSpot - Setup - WiFi Locations page.

To add new a new keyword or extension, please type it in the **Add keyword or extension** field and press **Add** button. To remove keyword or extension from the list, please select it from the list using left mouse click and press Remove button. When you finish, please press **Save** button. [URL Log](#) can be seen from Statistics

After enabling or disabling URL tracking option, **Antamedia HotSpot should be restarted.**



14.2 URL Keywords

URL keywords are used to redirect customer browser to the specified URL when customer tries to access website URL with defined keyword.

By default, two keywords are configured:

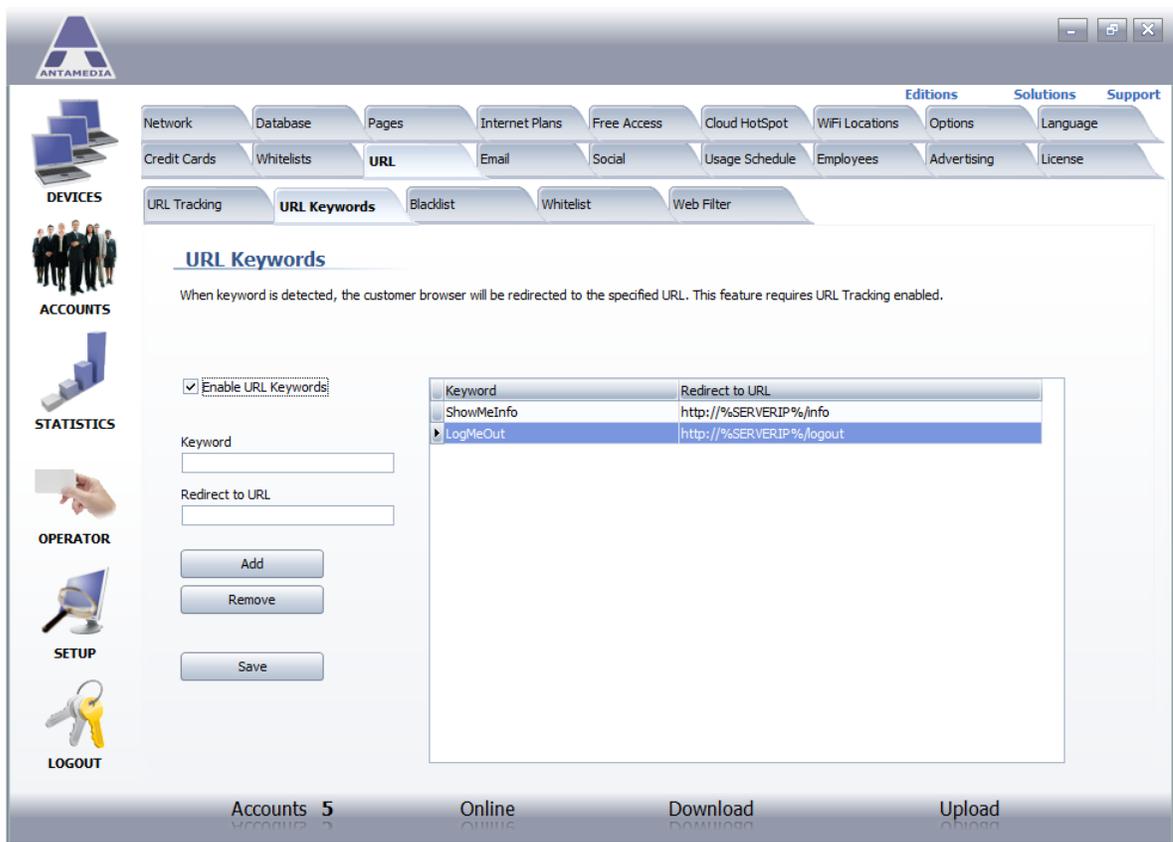
ShowMeInfo, which is used to show Info page in customer browser

LogMeOut, which is used to logout automatically a customer from HotSpot

This is a very useful feature which can be used for various purposes. For example, you can redirect customer browser when a competition brand name is detected (a user searches Google for competition brand).

Requirement:

URL Keyword option is active only when URL Tracking is enabled.



14.3 URL Blacklist

HotSpot URL Blacklist feature helps you to block the access to web pages that contain specified keywords. When a specified keyword appears in URL address which your customer tries to visits, the access to that web page will be automatically blocked. Customer will get warning message that access is restricted by HotSpot.

To add a keyword, please type it in **Add keyword to list** and press **Add** button. To remove keyword from the list, please select it from the list using left mouse click and press **Remove** button. When you finish, please press **Save** button.

14.4 URL Whitelist

The purpose of URL Whitelist is to complement Web Filter feature by allowing you to configure a list of keywords that will be excluded in Web Filter. For example, you can block Social Networks category, but allow www.twitter.com website by adding "twitter" keyword to URL Whitelist.

To add a keyword, please type it in **Add keyword to list** and press **Add** button. To remove keyword from the list, please select it from the list using left mouse click and press **Remove** button. When you finish, please press **Save** button.

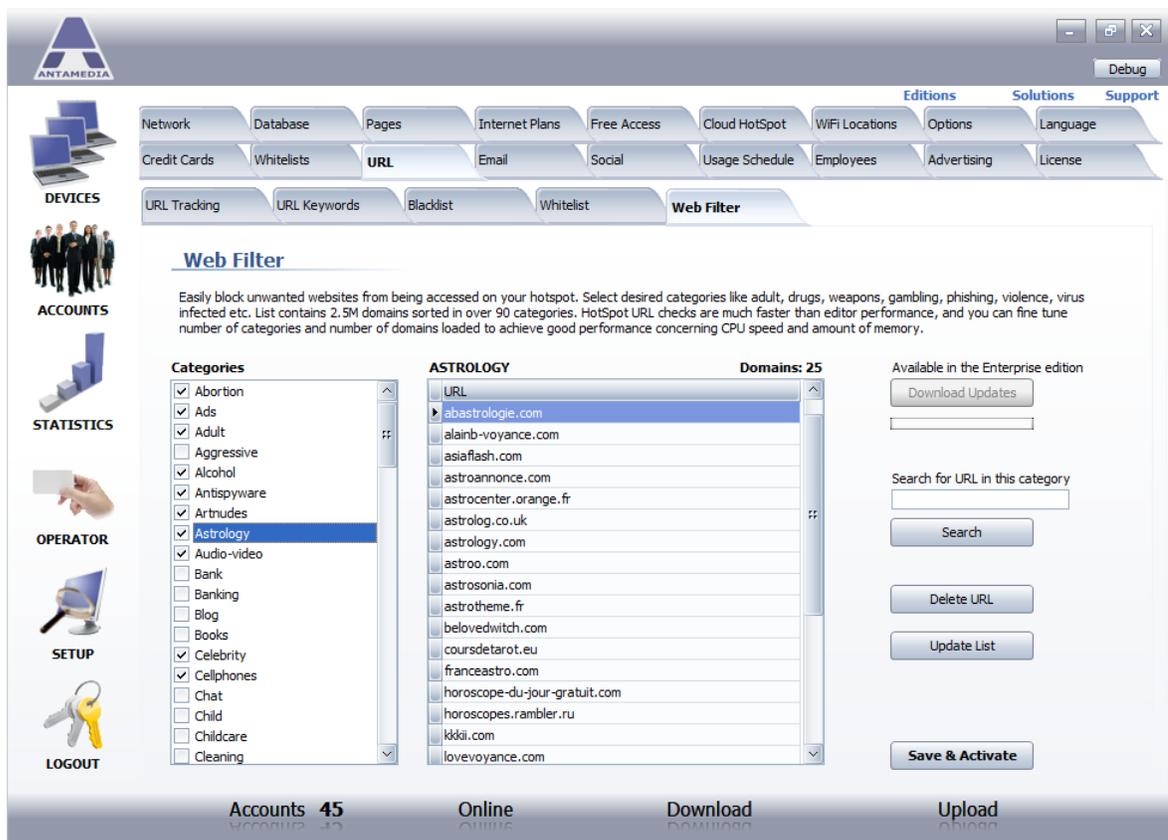
14.5 Web Filter

HotSpot software can help you block unwanted URL's or websites from being accessed on your client network. For this task, Web Filter needs to be configured. This feature is available in Enterprise edition.

In the main Setup section screen go to **URL** tab and choose **Web Filter** tab. In this tab you can find more than 2.5 million domains sorted in over 90 categories, such as adult, warez, ads, drugs etc. HotSpot URL check are much faster than editor performance, and you can fine tune number of categories and number of domains loaded to achieve good performance concerning CPU speed and amount of memory.

To activate Web Filter please follow these steps:

1. Click **Download Updates** button to download all categories from our server
2. Select the categories you wish to block. Some categories are large (like adult), and performance on slower computers may depend on the number of included categories and number of domains inside.
3. Click the **Save & Activate** button to turn on the Web Filter with the selected list of categories and domains.



15 Whitelist

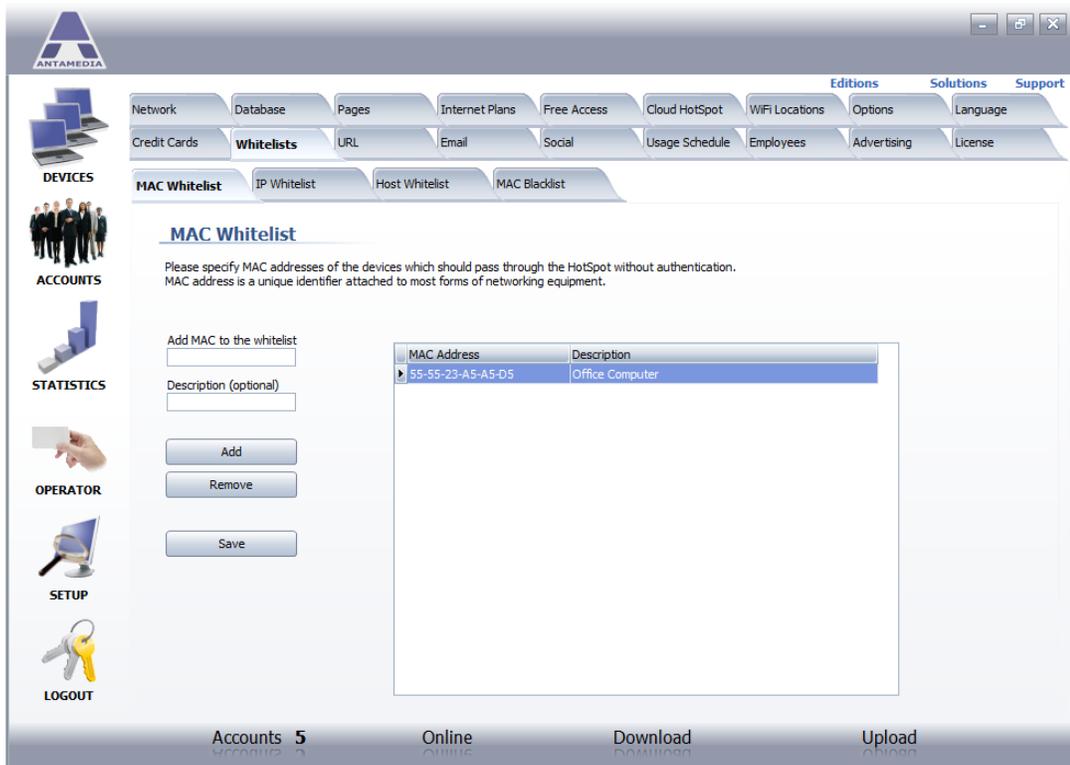
Whitelist is used to specify the computers which should pass through the HotSpot without authentication. Such computers are not listed at the main page, and their usage is not tracked. Whitelist can be used, for example, to let your IP cameras communicate without login procedure. You can also whitelist some of the computers which should be accessed remotely.

HotSpot uses IP whitelist and MAC whitelist to define which computers are allowed to pass-through without authentication.

15.1 MAC Whitelist

Antamedia HotSpot software gives you ability to specify MAC addresses of computers which should pass through the hotspot without authentication. MAC address is a unique identifier attached to most forms of networking equipment.

To add new computer that should pass through the HotSpot without authentication type MAC address in **Add MAC address in whitelist** and press **Add** button. To remove computer from whitelist select it with the left mouse click from the whitelist and press **Remove** button. When you finish, please press **Save** button. Please note that the bandwidth of whitelisted devices is not measured.



15.2 IP Whitelist

To add computer IP address that should pass to the Internet through the HotSpot software without authentication, please type computer IP address in **Add IP address** field and press **Add** button. To remove computer from the whitelist, please select computer IP address in the whitelist using left mouse click and press **Remove** button. When you finish, please press **Save** button. Please note that the bandwidth of whitelisted devices is not measured.

15.3 Host Whitelist

Host whitelist helps you to allow access to specified websites without authentication. There are many reasons to whitelist some hosts, like:

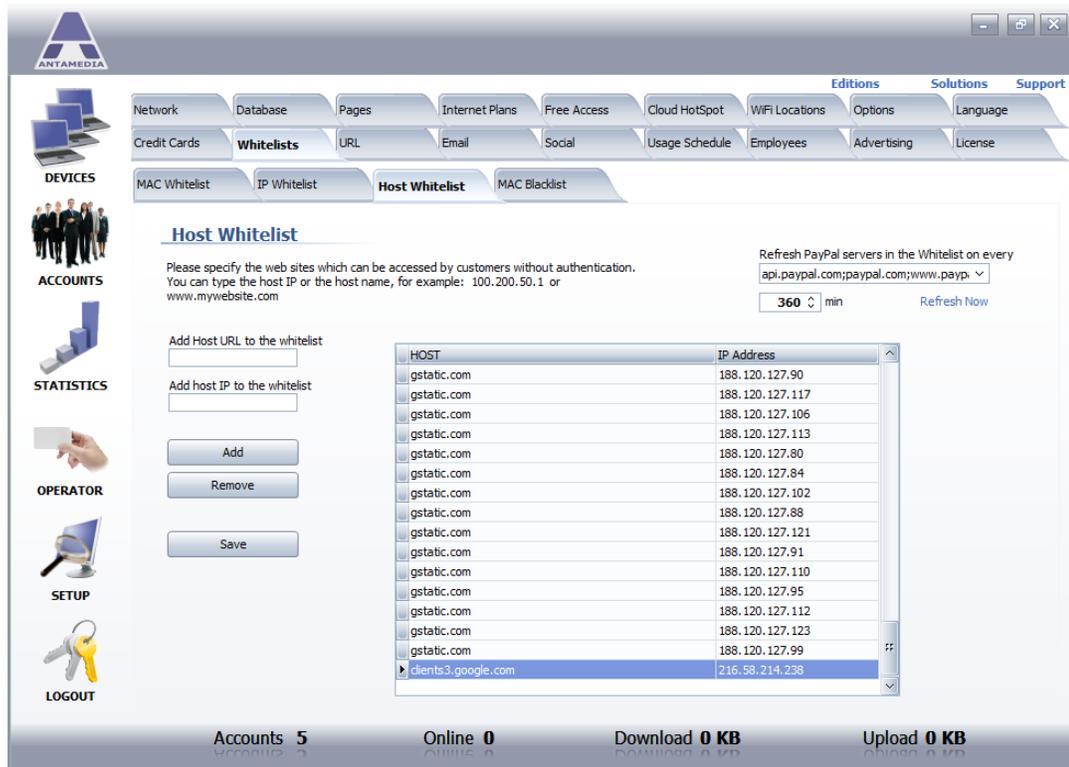
- Credit card gateway (like PayPal) needs some hosts accessible in order to process customer credit card payment
- Advertising purposes, where you can allow the access to some websites without authentication. For example your website which is located on the remote web hosting company. You can specify the host IP address or the host name like: 100.200.50.1 or www.mywebsite.com
- Free use of search engines, but customer pays to see websites from search results

In the HotSpot - Setup - Whitelist - Host Whitelist page you can see two different ways to add website in the whitelist:

Add host IP to whitelist If you know website IP address (like 100.200.50.1)

Add host URL to whitelist If you know website URL address (like www.mywebsite.com)

Press Add button to add host IP or host name, or press Remove button to remove host IP or URL address selected in the whitelist. When you finish, please press Save button.



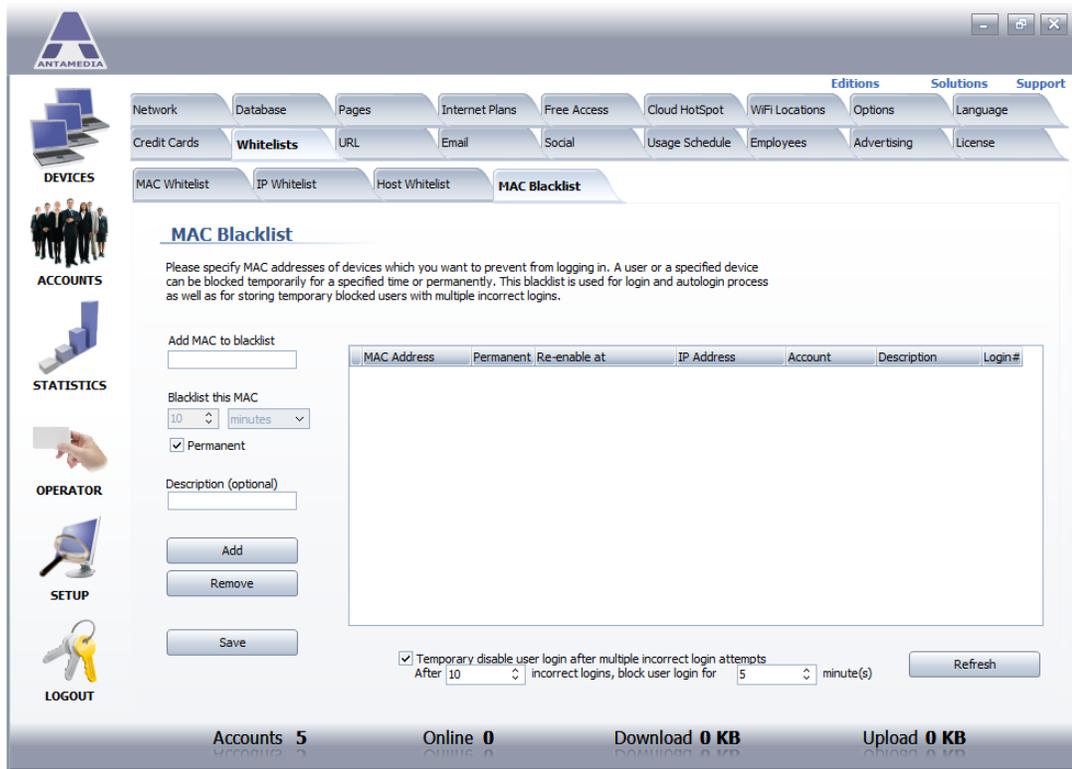
15.4 MAC Blacklist

This feature blocks the Internet access for specified MAC addresses.

You can do it by adding MAC address to the list:

1. Open HotSpot - Setup - Whitelist - MAC Blacklist page
2. Enter computer MAC address in the text field
3. Set how long this computer will be blacklisted or check Permanently
4. (Optional) Enter description
5. Click **Add**
6. Click **Save**

To re-enable blacklisted computer, please click on it in blacklist and click **Remove** button. Computers can be also automatically added to the blacklist. HotSpot will blacklist a computer for 5 minutes if there has been more than 10 wrong login attempts from it. You can change this default behavior from this page.



The screenshot shows the Antamedia HotSpot Management Interface. The top navigation bar includes tabs for Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, and Language. Below this, there are tabs for Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, and License. The 'Whitelists' section is active, showing sub-tabs for MAC Whitelist, IP Whitelist, Host Whitelist, and MAC Blacklist. The 'MAC Blacklist' sub-tab is selected.

The main content area is titled 'MAC Blacklist' and contains the following text: 'Please specify MAC addresses of devices which you want to prevent from logging in. A user or a specified device can be blocked temporarily for a specified time or permanently. This blacklist is used for login and autologin process as well as for storing temporary blocked users with multiple incorrect logins.'

On the left side, there is a sidebar with icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT.

The configuration form includes:

- 'Add MAC to blacklist' text input field.
- 'Blacklist this MAC' section with a dropdown menu set to '10 minutes' and a checked 'Permanent' checkbox.
- 'Description (optional)' text input field.
- 'Add', 'Remove', and 'Save' buttons.
- A checkbox for 'Temporary disable user login after multiple incorrect login attempts' with a dropdown set to '10' and a 'minute(s)' label.
- A 'Refresh' button.

At the bottom of the interface, there are status indicators: 'Accounts 5', 'Online 0', 'Download 0 KB', and 'Upload 0 KB'.

16 HotSpot Access Rights

Antamedia HotSpot software supports different access rights.

While Administrator has full access to all HotSpot settings, you can set other employee accounts with limited software access. Each employee has to login in order to do tasks in HotSpot. There are several types of employee accounts like: Administrator, Supervisor, Manager, Operator, Technician etc. You can also create employee account with custom access rights.

Administrator has full access in the software.

Manager can access statistics, reports, bills, action logs. Manager may create and modify the account properties or refill accounts, but may not Start or Stop HotSpot engine or access HotSpot setup pages.

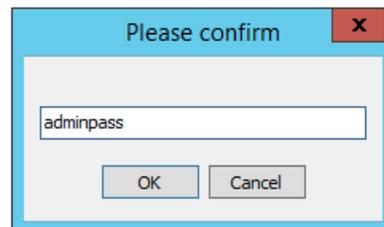
Operator can only create and sell the accounts using simple, easy to learn interface.

16.1 Main Administrator Password

Default Administrator login password is blank. Option to define new Administrator password is located in the HotSpot - Setup - Employees page. Type a new password in **Main Administrator password** field and press **Save** button .



Confirm Administrator password in new pop-up menu and press **OK** button.

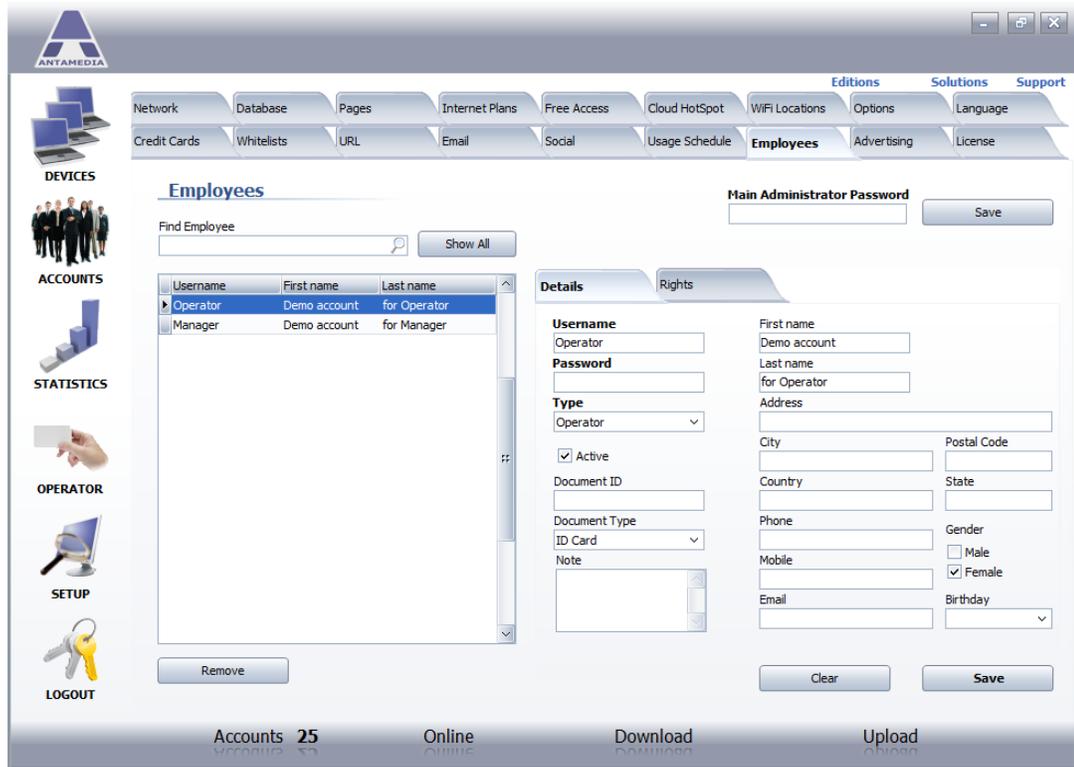


16.2 Creating Employee Accounts

How to create a new employee account:

1. Type **Username** and **Password** of your employee
2. Choose **Type** of employee account
3. Fill in other optional details, like address, city, birthday, email, mobile number, document ID
4. Select **Active** to allow login in the HotSpot
5. (Optional) Add a photo of the employee or document scan
6. Click **Rights** tab and assign access rights to employee account
7. Press **Save** button to store a new employee in database

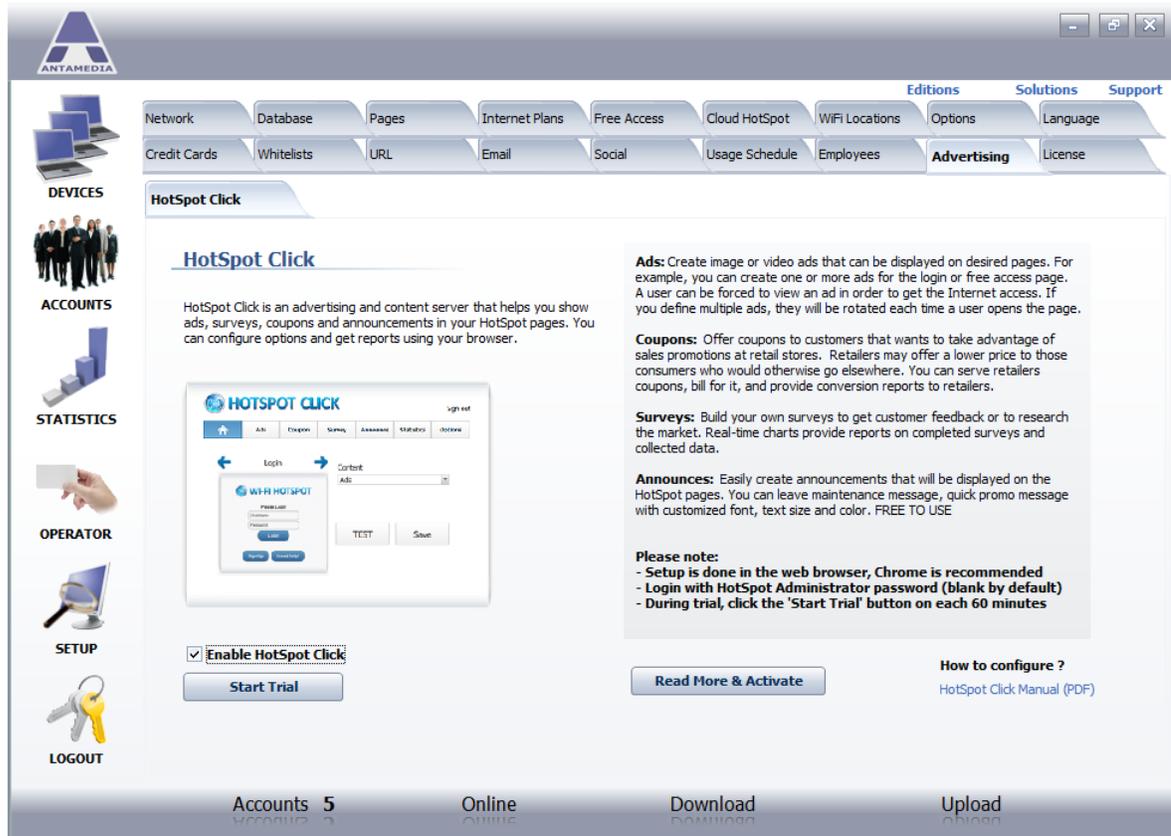
To delete employee account from the list, please select the account with left mouse click and press **Remove** button.



The screenshot displays the Antamedia HotSpot Management Interface. The main navigation bar includes categories like Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, Language, Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, **Employees**, Advertising, and License. The left sidebar contains icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The central area is titled "Employees" and features a "Find Employee" search box and a "Show All" button. Below this is a table with columns for Username, First name, and Last name. The table contains two entries: "Operator" (Demo account for Operator) and "Manager" (Demo account for Manager). A "Remove" button is located below the table. To the right, there is a "Main Administrator Password" field with a "Save" button. Below that, the "Details" tab is active, showing fields for Username, Password, Type, Active status, Document ID, Document Type, Note, First name, Last name, Address, City, Postal Code, Country, State, Phone, Mobile, Email, Gender (Male/Female), and Birthday. "Clear" and "Save" buttons are at the bottom of the details section. At the very bottom of the interface, there are status indicators: "Accounts 25", "Online 0/1116", "Download 0/1116", and "Upload 0/1116".

17 Advertising with HotSpot Click

HotSpot Click is an advertising and content server that helps you show ads, surveys, coupons and announcements. It can be used to display video and image ads, coupons and surveys that can increase revenue. You can offer free Wi-Fi access in exchange for ad watching and get real-time ad click and impression reports. HotSpot Click allows you to configure it and get statistical reports through an intuitive web interface using your browser.



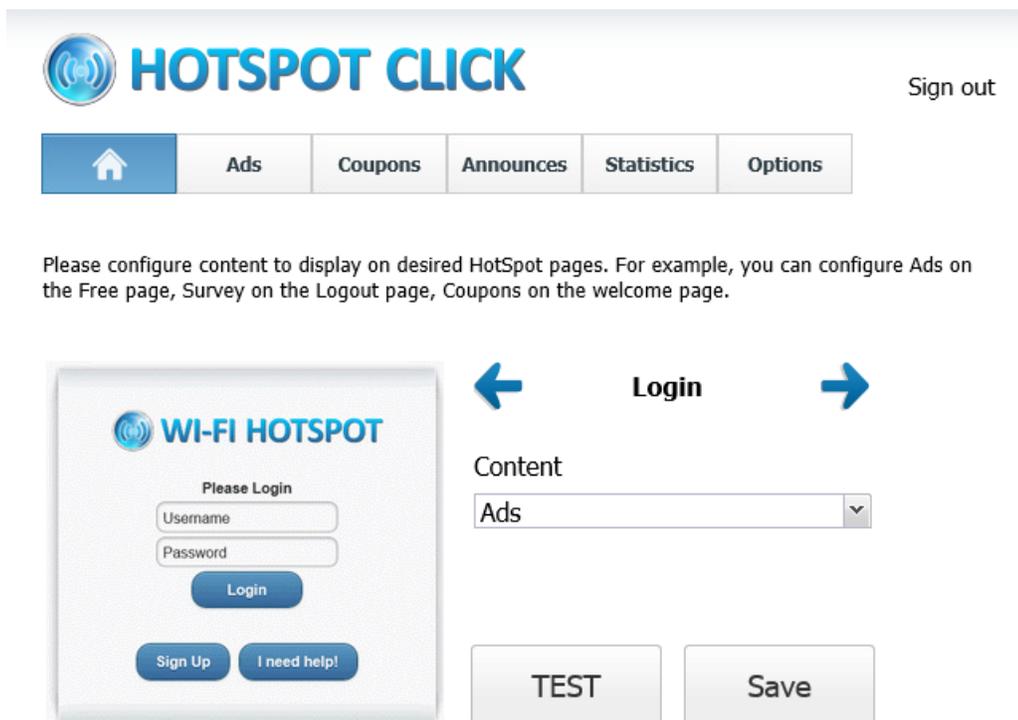
- **Ads:** Create image or video ads that can be displayed on desired pages. For example, you can create one or more ads for the login or free access page. A user can be forced to view an ad in order to get the Internet access. If you define multiple ads, they will be rotated each time a user opens the page.
- **Coupons:** Offer coupons to customers that want to take advantage of sales promotions at retail stores. Retailers may offer a lower price to those consumers who would otherwise go elsewhere. You can serve retailers coupons, bill for it, and provide conversion reports to retailers.
- **Announcements:** Easily create announcements that will be displayed in the HotSpot pages. You can leave maintenance message, quick promo message with customized font, text size and color. This option is free for all licensed HotSpot users.



17.1 Starting HotSpot Click

To activate **HotSpot Click**, please go to Setup - Advertising page and enable this feature, then click **Save**(licensed version) or ***Start Trial** button. Application will start and your default browser will be launched automatically, we recommend using Google Chrome. You can login with default credentials: **Administrator** username and blank password.

From the main screen you should select which HotSpot web pages will show additional content and what type they will display. After you configure desired settings, press **Save** button to apply them or click **TEST** to check how the page will look in customer's browser.



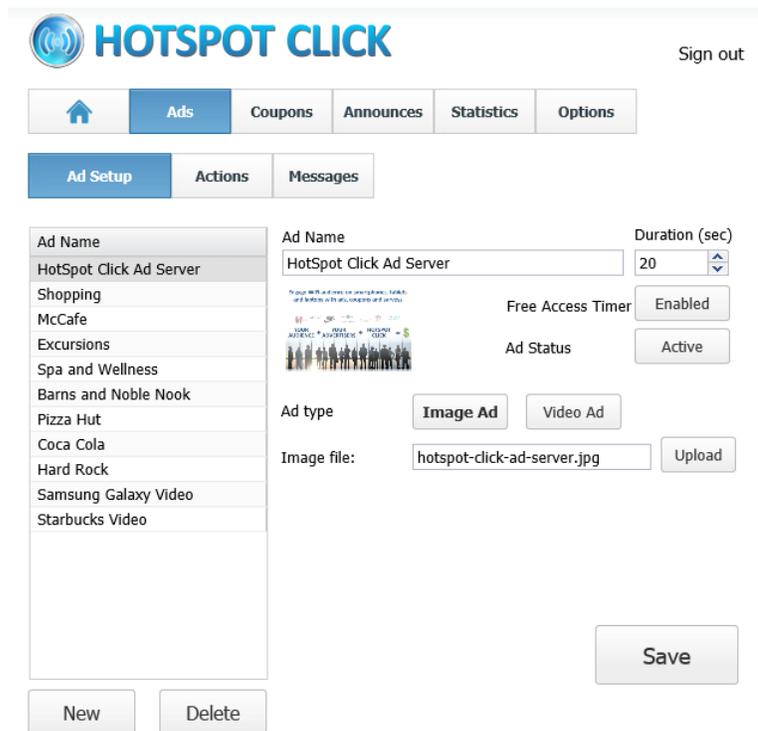
*Note that during trial period Click will stop working after 60 minutes, after that you should press Start Trial button again.

17.2 Ads

To configure new ads or modify existing, click **Ads** button on the top bar, next to home icon. The page will show a list of available items, select one to modify it or press **Delete** to remove the ad. Ads are rotated each time user opens the page. To create an ad, click **New** button located under the list, configure the settings and then press **Save**.

HotSpot Click supports image (.jpg) and video (.mp4, .webm, .ogv) files. For each ad you should configure 3 sections:

- **Ad Setup** - Under this tab you can configure basic settings like ad name and path to the image/video file.
- **Actions** - Configure which action will be performed after the user had watched the ad.
- **Messages** - Customize the appearance of countdown timer and message shown after the ad.



The screenshot shows the 'HOTSPOT CLICK' dashboard with the 'Ads' tab selected. The 'Ad Setup' sub-tab is active, displaying a list of ad categories on the left and configuration fields on the right. The configuration fields include: Ad Name (HotSpot Click Ad Server), Duration (20 seconds), Free Access Timer (Enabled), Ad Status (Active), Ad type (Image Ad selected), and Image file (hotspot-click-ad-server.jpg). A 'Save' button is located at the bottom right, and 'New' and 'Delete' buttons are at the bottom left.

Ad Setup

- Ad Name** Set the name of the ad, so you can refer to it inside the Click, Hotspot users will not see this name.
- Duration (sec)** Use this option to set how long user has to watch the ad before getting Internet access.
- Free Access timer** Enable or disable countdown message that is displayed on top of the ad. Disable this option if you don't want to allow free access to users after they watch the ad.
- Ad Status** Set whether the ad will be shown to Hotspot users.
- Ad Type** Select one of the two available ad formats, HotSpot Click supports image (.jpg) and video (.mp4, .webm, .ogv) files.
- Image/Video file** To upload the ad file, click **Upload** button, choose the file from hard drive

Actions

- Advertiser URL** Set a web site that will open when user clicks on the ad image/video
- After watching the ad, user will start Internet browsing with** Choose whether the user will start to browse with Advertiser URL, a custom web address or collect data page

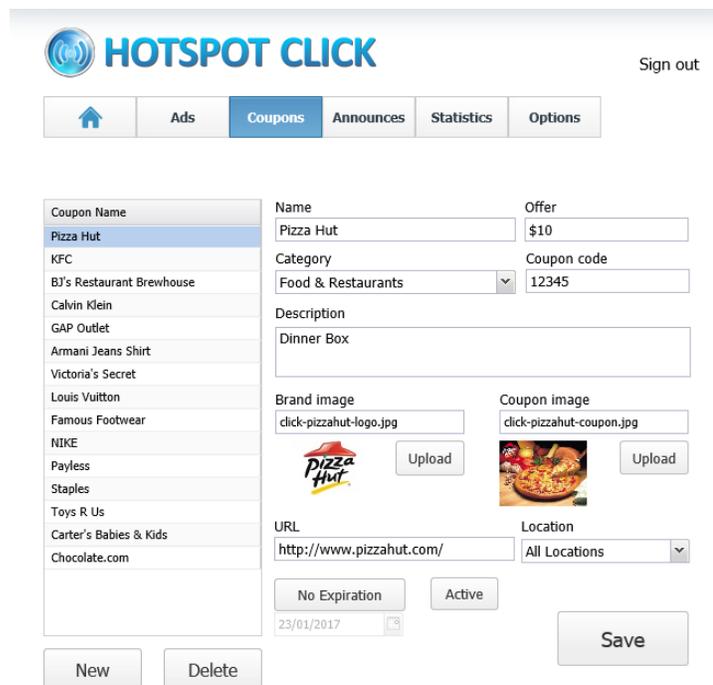
Messages

- Text** Enter the timer message text or leave default variable if you need multilanguage support, text for this variable can be configured from Hotspot - Setup - Language - Browser Language page
- Text font** Select desired font type using this field
- Text size, alignment** Choose Text size and Alignment within the message box
- Text color, background** Set the color for text and background, HTML color codes have to be used (<http://html-color-codes.info/>)

17.3 Coupons

To configure the coupons in Click, press **Coupons** button on the top bar. The page will show a list of available items, select one to modify it or press **Delete** to remove the coupon. To create a coupon, click **New** button located under the list, configure the settings and then press **Save**.

Name	Set the name of the coupon, so you can refer to it inside the Click.
Offer	Set the specific offer for coupon (like 10% off, 5\$ credit etc.)
Category	Select coupon category, define new categories under Options - Categories tab
Coupon code	Enter alphanumeric code for the coupon
Description	Enter a short description of the offer in this field
Brand image	Upload a brand image(jpg, png, bmp or gif), this icon will be displayed in coupon grid on HotSpot web page
Coupon image	Upload a coupon image(jpg, png, bmp or gif), users will see this image after they open the coupon
URL	Specify URL address of the advertiser, user will be redirected to this address after clicking Open Site button
Location	By default it is set to all locations, but you can specify on which of them it will be available
Expiration	(Optional) Configure the coupon expiration date
Active	Use this button to enable or disable displaying of this coupon



The screenshot shows the 'HOTSPOT CLICK' dashboard with the 'Coupons' tab selected. On the left is a list of coupon names, with 'Pizza Hut' highlighted. The main form contains the following fields:

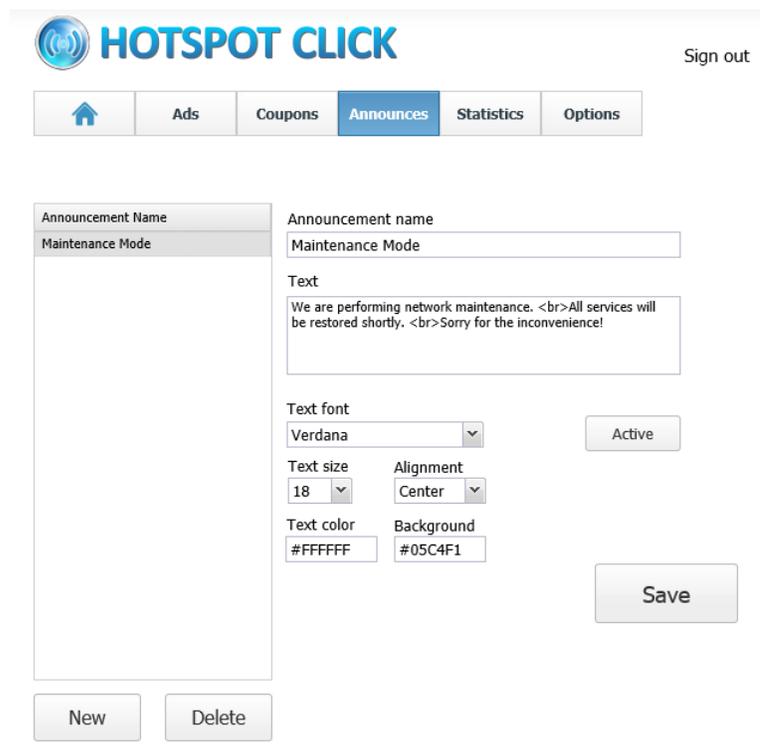
- Name:** Pizza Hut
- Offer:** \$10
- Category:** Food & Restaurants
- Coupon code:** 12345
- Description:** Dinner Box
- Brand image:** click-pizzahut-logo.jpg (with a Pizza Hut logo preview and an 'Upload' button)
- Coupon image:** click-pizzahut-coupon.jpg (with a pizza image preview and an 'Upload' button)
- URL:** http://www.pizzahut.com/
- Location:** All Locations
- Expiration:** No Expiration (with a date field set to 23/01/2017)
- Active:** Active (checkbox)

At the bottom, there are 'New' and 'Delete' buttons for the list, and a 'Save' button for the form.

17.4 Announces

To configure new announcements or modify existing, click **Announces** button on the top bar. The page will show a list of available items, select one to modify it or press **Delete** to remove an announcement.

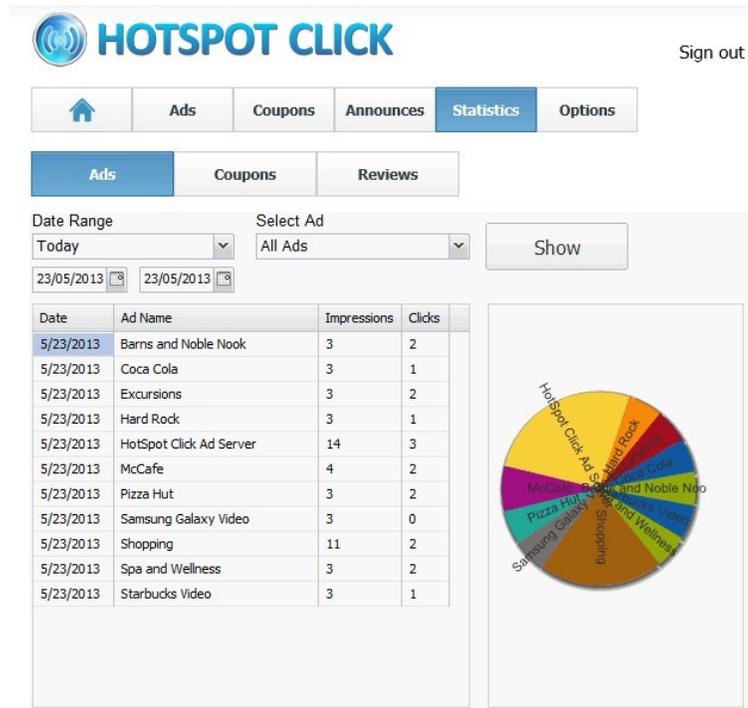
- Announcement name** Enter the name of the item, so you can refer to it inside the Click.
- Text** Enter the text for the announcement
- Text font** Select desired font type using this field
- Text size, alignment** Choose Text size and Alignment within the announcement box
- Text color, background** Set the color for text and background, HTML color codes have to be used (<http://html-color-codes.info/>)
- Active** Use this button to enable or disable this announcement



The screenshot shows the 'HOTSPOT CLICK' interface. At the top right, there is a 'Sign out' link. Below the header is a navigation bar with buttons for 'Home', 'Ads', 'Coupons', 'Announces' (which is highlighted), 'Statistics', and 'Options'. The main content area is divided into two columns. The left column contains a list of announcements, with the first one titled 'Announcement Name' and 'Maintenance Mode'. The right column shows the configuration form for the selected announcement. It includes a text input field for the 'Announcement name' containing 'Maintenance Mode', a larger text area for the 'Text' containing 'We are performing network maintenance.
All services will be restored shortly.
Sorry for the inconvenience!'. Below these are dropdown menus for 'Text font' (set to 'Verdana'), 'Text size' (set to '18'), and 'Alignment' (set to 'Center'). There are also input fields for 'Text color' (set to '#FFFFFF') and 'Background' (set to '#05C4F1'). An 'Active' button is present, and a 'Save' button is at the bottom right of the form. At the bottom of the page, there are 'New' and 'Delete' buttons.

17.5 Statistics

From this section you can view and examine statistical data, HotSpot Click collects data on each customer engagement. Impressions and clicks data is available for ads, coupons and surveys. To display pie-chart report for all items for specified time period, please select starting and ending date manually or select a period from **Date Range** drop-down menu and press **Show** button.



HOTSPOT CLICK Sign out

Home | Ads | Coupons | Announces | **Statistics** | Options

Ads | Coupons | Reviews

Date Range: Today | Select Ad: All Ads | Show

23/05/2013 | 23/05/2013

Date	Ad Name	Impressions	Clicks
5/23/2013	Barns and Noble Nook	3	2
5/23/2013	Coca Cola	3	1
5/23/2013	Excursions	3	2
5/23/2013	Hard Rock	3	1
5/23/2013	HotSpot Click Ad Server	14	3
5/23/2013	McCafe	4	2
5/23/2013	Pizza Hut	3	2
5/23/2013	Samsung Galaxy Video	3	0
5/23/2013	Shopping	11	2
5/23/2013	Spa and Wellness	3	2
5/23/2013	Starbucks Video	3	1

The pie chart on the right visualizes the data from the table, with segments representing each ad's contribution to the total impressions and clicks.

Click can also display report for a specific item which shows impressions and clicks comparison chart and location comparison. To display it, select date range like described above, choose the item from **Select Ad\Coupon\Survey** field and click **Show** button.



17.6 Options

Advertisers

From **Options - Advertisers** page you can manage accounts of Click users, add new, modify or delete existing. There are two types of users:

- **Administrator** - User has access to all Click sections, administrators can create or remove other users, manage coupon categories and edit Click HTML cod.
- **Advertiser** - Users of this type do not have access to **Options** section, they can manage allowed content types and view the statistics.

Categories

From this page you can manage product/service categories for coupons in Click.

Code

Advanced users with HTML and JavaScript knowledge can directly edit Ads(image and video type) and Coupons code.



The screenshot shows the 'HOTSPOT CLICK' interface with the 'Options' menu selected. Under 'Options', the 'Code' sub-menu is active. The 'Code' section is further divided into 'Ads HTML Code' and 'Coupons HTML Code'. The 'Ads HTML Code' section is expanded to show 'Image HTML' and 'Video HTML' options. The 'Image HTML' option is selected, displaying two text areas: 'Ad HTML Script' and 'Ad HTML Content'. The 'Ad HTML Script' area contains JavaScript code for a countdown timer. The 'Ad HTML Content' area contains HTML code for a timer and an advertisement image. A 'Save' button is located at the bottom right of the code editor.

```

Ad HTML Script
<script language="javascript">
function timer(time,update,complete) {
var start = new Date().getTime();
var interval = setInterval(function() {
var now = time-(new Date().getTime()-start);
if( now <= 1000) {
clearInterval(interval);
complete();
}
else update(Math.floor(now/1000));
},100);
}

function countdown_time(){
timer(%TIME%,
function(timeleft)
{document.getElementById('timer').innerHTML = "#PLEASE-WAIT# "+timeleft;},
%SHOWTIMER%
);
}

```

```

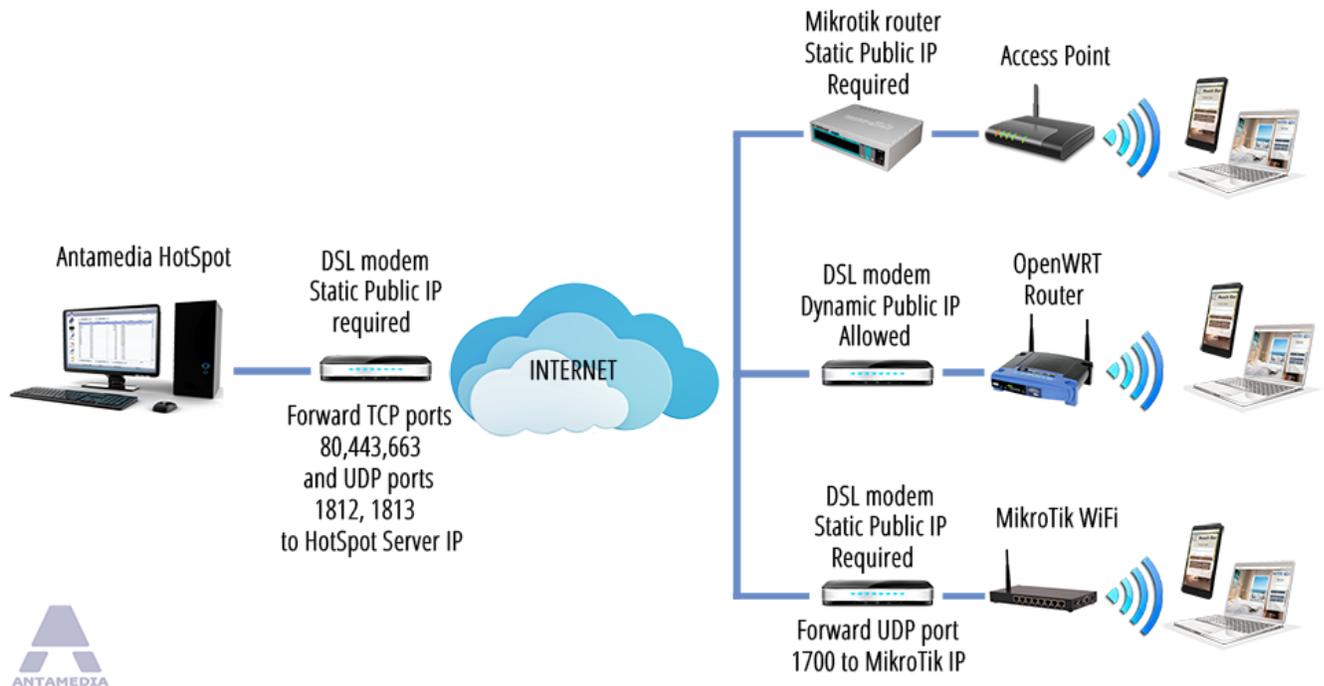
Ad HTML Content
<div id="show_timer" style="width:100%; height:34px; background-color:%TLBACKGROUND%; text-align:%TLALIGN%;"><span id="time" style="margin:0; padding:0px 0px 0px 0px; color:%TLFONTCOLOR%; font-family:%TLFONT%,Geneva,sans-serif; font-size:%TLFONTSIZE%px; text-shadow: 0 1px 0 #555555;"></span></div>

<div id="click_ad_content" onClick="f_AdvertiserURL()"></div>

```

18 HotSpot Cloud

Cloud HotSpot feature allows you to control multiple remote locations over the Internet using the same, centralized HotSpot server. We have integrated a **RADIUS** server which is used for AAA and communication with connected routers. Please consult our staff if your router is not listed as it might be easily supported.



Routers can be installed in a different places like restaurants, coffee shops, retail stores, shopping malls. Routers are using their own Internet connection to provide Internet access to users, and to communicate with HotSpot server in order to authenticate users and control their usage. Users are limited by download, upload, time, quota and other login parameters. Each router can have its own branded pages and theme. This can be configured from HotSpot - Setup - Locations page by specifying router's LAN range of IP addresses.



The screenshot shows the Antamedia HotSpot Cloud management interface. The main heading is "Create a Cloud HotSpot using Radius and Routers". Below the heading, there is a descriptive paragraph: "Create a cloud HotSpot solution by connecting routers to HotSpot. Routers can be installed in different places like restaurants, retail stores, coffee shops, shopping malls. Routers are using their own Internet connection to provide Internet access to users, and to communicate with HotSpot server in order to authenticate and control usage. Users are limited by download, upload, time, quota and other login parameters. Each router can have its own branded pages and theme. This can be configured in the Locations page by specifying router's LAN range of IP addresses."

Configuration options include:

- Enable Cloud Service
- HotSpot Public IP: External Public IP provided by ISP which is port forwarded to a HotSpot NIC 1 (WAN side)
- Router IP: Active
- Router ID:
- Location Name:
- OpenWRT Radius

Buttons: Add, Remove, Save, Configure Routers

Type	Router IP	Router ID	Location Name	Last Ping	Active

Bottom status bar: Accounts 5, Online, Download, Upload

Requirements:

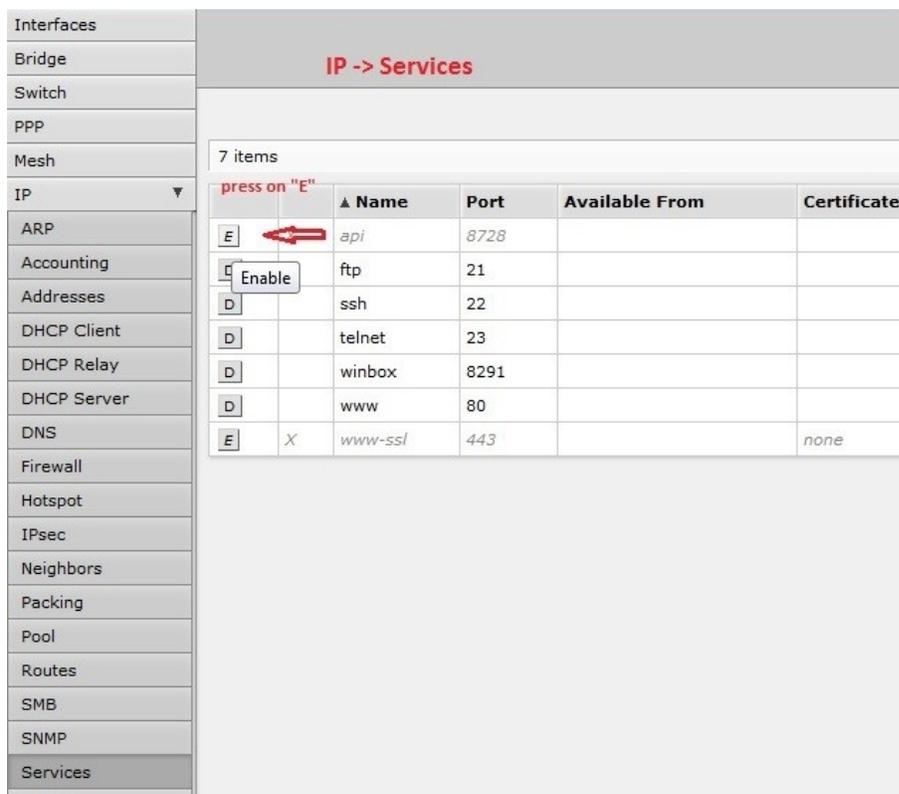
- **Supported router** like **MikroTik** or **OpenWRT** routers. For example RouterBOARD 750, RouterBOARD 951 and all Mikrotik routers with OS level 4+, Linksys WRT54G model etc
- If remote MikroTik/OpenWRT router also acts as Internet modem/router, it must have **static public IP address** configured on its WAN port.
- If you have separate Internet modem/router on remote site, forward **UDP** ports 1700 and 8728 to MikroTik/OpenWRT router.

18.1 MikroTik Router Configuration

The following example illustrates how to connect remote **MikroTik** router:

It is recommended to reset the router to factory settings before connecting it to Hotspot server.

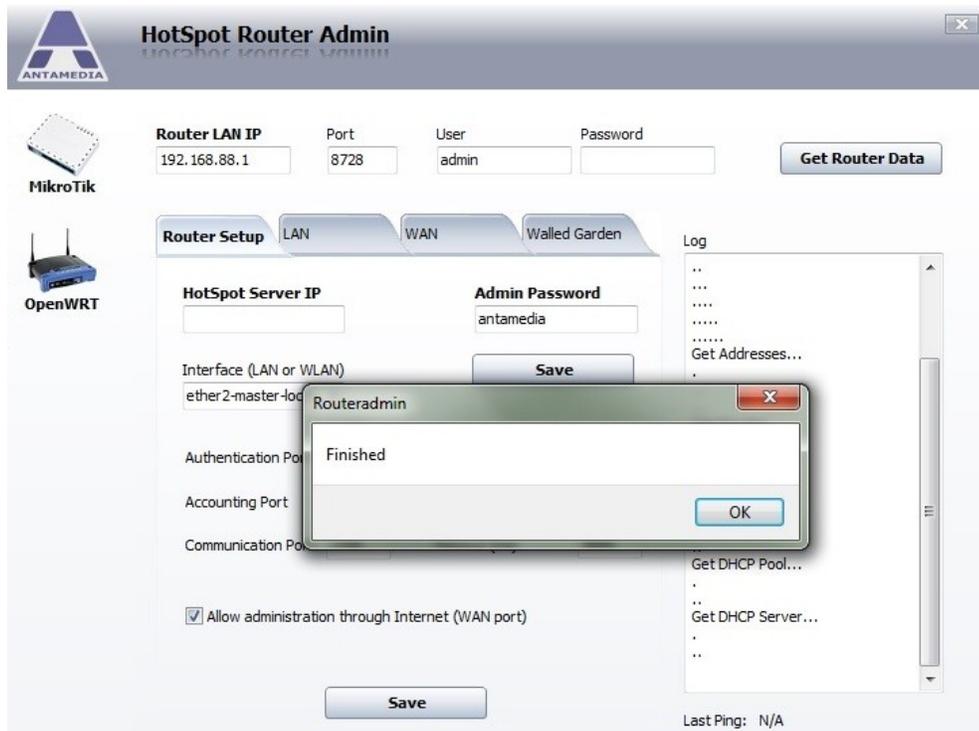
1. Make sure that MikroTik router is already set up and operating as a gateway for its local network.
2. Open MikroTik router settings in web browser from a Windows computer located in local network, the PC should be set to automatically obtain IP address.
3. Click on the **IP** section and select **Services**, click on letter **E** that is displayed next to **api** entry.



The screenshot shows the MikroTik router configuration interface. On the left is a sidebar menu with categories like Interfaces, Bridge, Switch, PPP, Mesh, IP, ARP, Accounting, Addresses, DHCP Client, DHCP Relay, DHCP Server, DNS, Firewall, Hotspot, IPsec, Neighbors, Packing, Pool, Routes, SMB, SNMP, and Services. The 'IP' section is expanded, and the 'Services' sub-section is selected. The main area displays a table titled 'IP -> Services' with 7 items. A red arrow points to the 'E' button in the first row, which corresponds to the 'api' service.

		▲ Name	Port	Available From	Certificate
E		api	8728		
E	Enable	ftp	21		
D		ssh	22		
D		telnet	23		
D		winbox	8291		
D		www	80		
E	X	www-ssl	443		none

4. **Download** and **extract RouterAdmin** to the desktop of this PC
5. **Run as administrator** RouterAdmin.exe from the folder and click **MikroTik** button
6. Enter **Router LAN IP** address and **Password** for admin user, click **Get Router Data** button



7. First on the **Router Setup** tab enter remote **HotSpot Server IP** address
8. (Optional) Set new **Admin Password** for MikroTik and click **Save** button.



9. Select the **Interface** that is connected to local network which will be controlled by HotSpot software
10. Make sure that **Allow administration through Internet (WAN port)** is checked
11. It is recommended to leave other options under **Router Setup** tab on default values
12. (Optional) Change **Router LAN IP** address from **LAN** tab.

13. Create a **DHCP pool** that matches IP range of **Router LAN IP** address, delete all others
14. Go to **WAN** tab and in **Router WAN Interface** field select interface that is connected to the Internet
15. Set **Router WAN IP** address and appropriate **NetMask**
16. Set the default **Gateway** address and **DNS** server (Internet router IP, ISP DNS or public like 8.8.8.8)

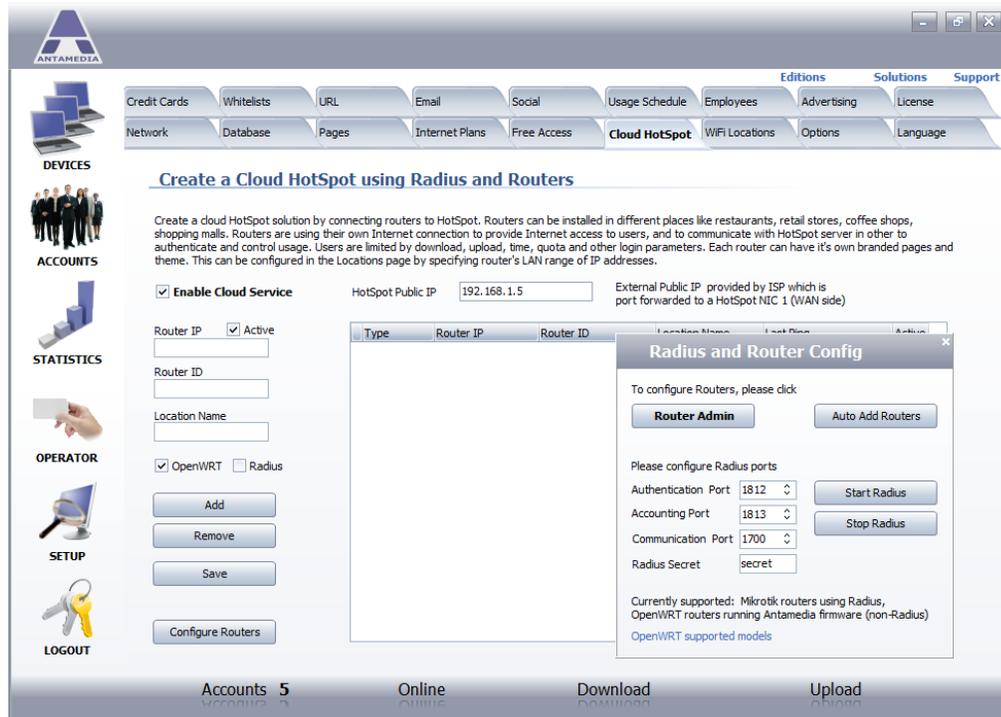


The screenshot shows the 'HotSpot Router Admin' web interface. At the top, there's a header with the Antamedia logo and the title 'HotSpot Router Admin'. Below the header, there are two main sections: 'MikroTik' and 'OpenWRT'. The 'MikroTik' section contains fields for 'Router LAN IP' (192.168.88.1), 'Port' (8728), 'User' (admin), and 'Password' (antamedia), along with a 'Get Router Data' button. The 'OpenWRT' section is divided into tabs: 'Router Setup', 'LAN', 'WAN', and 'Walled Garden'. The 'LAN' tab is active, showing 'Router LAN Interface' (ether2-master-local) and 'Router LAN IP' (192.168.2.1) with a netmask of /24. Below this are two tables: 'DHCP Pools' and 'DHCP Servers'. The 'DHCP Pools' table has one entry: 'default-dhcp' with 'DHCP from' 192.168.2.3 and 'DHCP to' 192.168.2.254. The 'DHCP Servers' table has one entry: '*1' with 'Name' 'default', 'Interface' 'ether2-master-local', and 'Lease' '4320'. To the right of the configuration area is a 'Log' section with a scrollable list of system messages. At the bottom right, it says 'Last Ping: N/A'.

17. **Important!** Make sure that **Static** box is checked
18. (Optional) Configure a list of websites accessible without user authentication under **Walled Garden** tab.
19. Click **Save** button to apply the settings for both LAN and WAN router interfaces.
20. After saving, disable and re-enable network card on the pc and restart **HotSpot Router Admin** application



After these procedures remote MikroTik router will be ready to be added inside HotSpot software. Go to HotSpot - Setup - Cloud HotSpot page and click **Configure Routers** button. Check **Enable Cloud Service** box and click **Save**. Click **Start Radius** and then **Auto Add Routers** button. Restart your router, and during rebooting, router will communicate with our radius and will be automatically added to the list. After that router will be controlled by HotSpot software.



The screenshot shows the Antamedia HotSpot Cloud web interface. The main heading is "Create a Cloud HotSpot using Radius and Routers". Below this, there is a descriptive paragraph and a form for configuration. The form includes a checked "Enable Cloud Service" checkbox, a "HotSpot Public IP" field with the value "192.168.1.5", and an "External Public IP" field with a note: "External Public IP provided by ISP which is port forwarded to a HotSpot NIC 1 (WAN side)". There are also fields for "Router IP" (with a checked "Active" checkbox), "Router ID", and "Location Name". At the bottom of the form, there are checkboxes for "OpenWRT" (checked) and "Radius" (unchecked), and buttons for "Add", "Remove", "Save", and "Configure Routers".

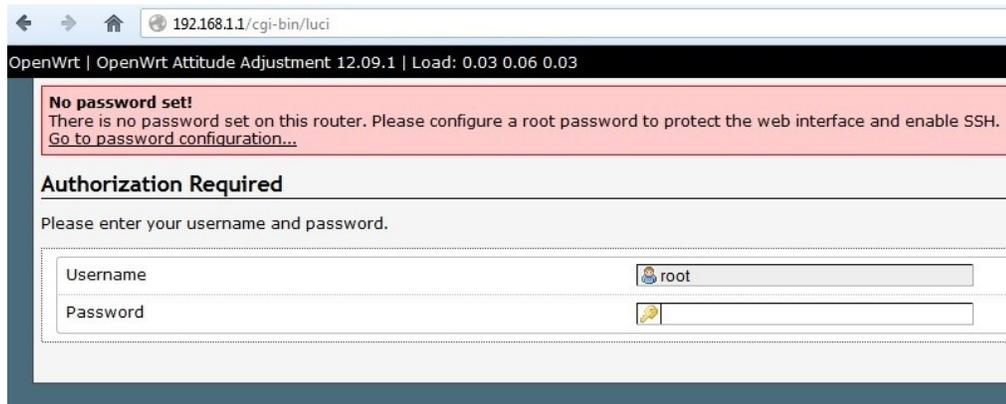
A modal window titled "Radius and Router Config" is open, showing configuration options for Radius ports: "Authentication Port" (1812), "Accounting Port" (1813), and "Communication Port" (1700). The "Radius Secret" is set to "secret". There are "Start Radius" and "Stop Radius" buttons. Below the form, it states: "Currently supported: Mikrotik routers using Radius, OpenWRT routers running Antamedia firmware (non-Radius) OpenWRT supported models".

The interface also features a sidebar with navigation icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. At the top, there are tabs for various settings like Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, License, Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, and Language. The bottom status bar shows "Accounts 5", "Online 0/0/0", "Download 0/0/0", and "Upload 0/0/0".

18.2 OpenWRT Router Configuration

This example will show how to connect remote **OpenWRT** router, example uses **Linksys WRT54G** model:

- If router runs factory firmware, you need to install **Antamedia OpenWRT:**
 - Download the openwrt-wrt54g-squashfs.bin firmware image to a PC connected to router's LAN port: www.antamedia.com/download/openwrt-wrt54g-squashfs.bin
 - Open <http://192.168.1.1/> (other IP if you changed router LAN IP address) in the browser and go to **Administration-Firmware Upgrade** page
 - Upload openwrt-wrt54g-squashfs.bin file. Wait 2 minutes. The router will reboot itself automatically after the upgrade is complete.
 - If router already has other version of **OpenWRT** firmware, update it with this version: www.antamedia.com/download/openwrt-brcm-2.4-squashfs.trx Follow the same above steps for installation.
 - If router runs DD-WRT firmware, update it with www.antamedia.com/download/openwrt-wrt54g-squashfs.bin
1. Make sure that the router is already set up and operating as gateway for its local network.
 2. Open router settings in web browser from a Windows PC connected to router's LAN port, the PC should be set to automatically obtain IP address.
 3. Login to the router using **root** username and blank password.



- Set the **Router Password**, leave **SSH Access** setting at default values and click **Save & Apply** button.

No password set!
 There is no password set on this router. Please configure a root password to protect the web interface and enable SSH.
[Go to password configuration...](#)

Router Password

Changes the administrator password for accessing the device

Password	<input type="password" value="••••••"/>
Confirmation	<input type="password" value="••••••"/>

SSH Access

Dropbear offers SSH network shell access and an integrated SCP server

Dropbear Instance

Interface	<input type="radio"/> lan:   <input type="radio"/> wan:   <input checked="" type="radio"/> unspecified
<input checked="" type="checkbox"/> Listen only on the given interface or, if unspecified, on all	
Port	<input type="text" value="22"/> <input checked="" type="checkbox"/> Specifies the listening port of this <i>Dropbear</i> instance
Password authentication	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Allow <u>SSH</u> password authentication
Allow root logins with password	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Allow the <i>root</i> user to login with password
Gateway ports	<input type="checkbox"/> <input checked="" type="checkbox"/> Allow remote hosts to connect to local SSH forwarded ports

 Add

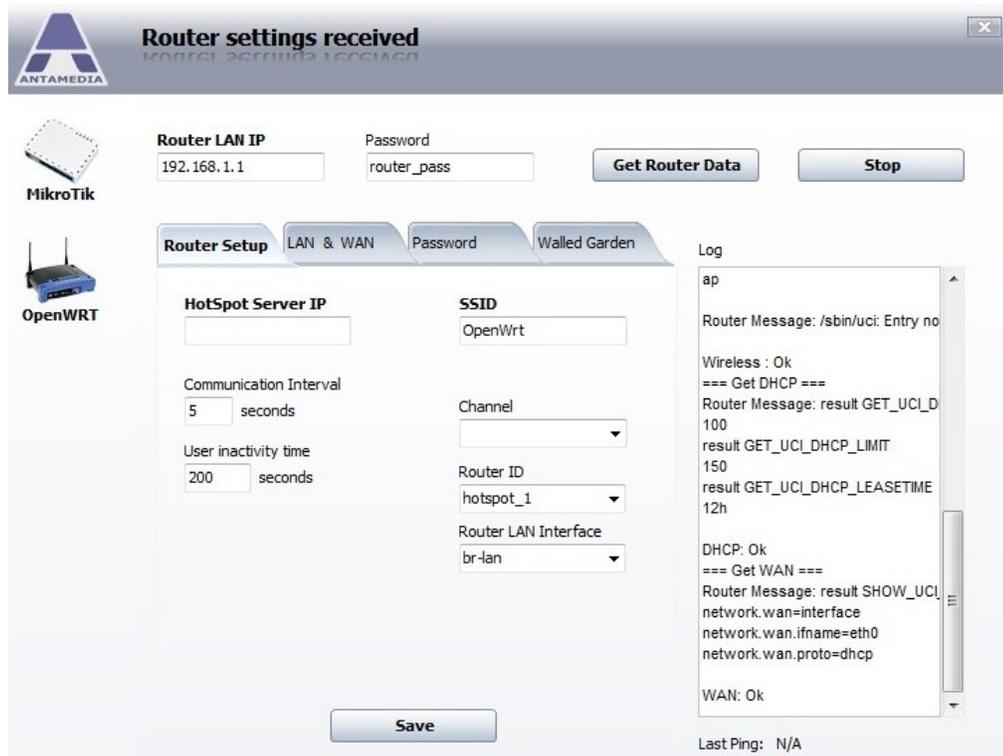
SSH-Keys

Here you can paste public SSH-Keys (one per line) for SSH public-key authentication.

© 2017 Antamedia

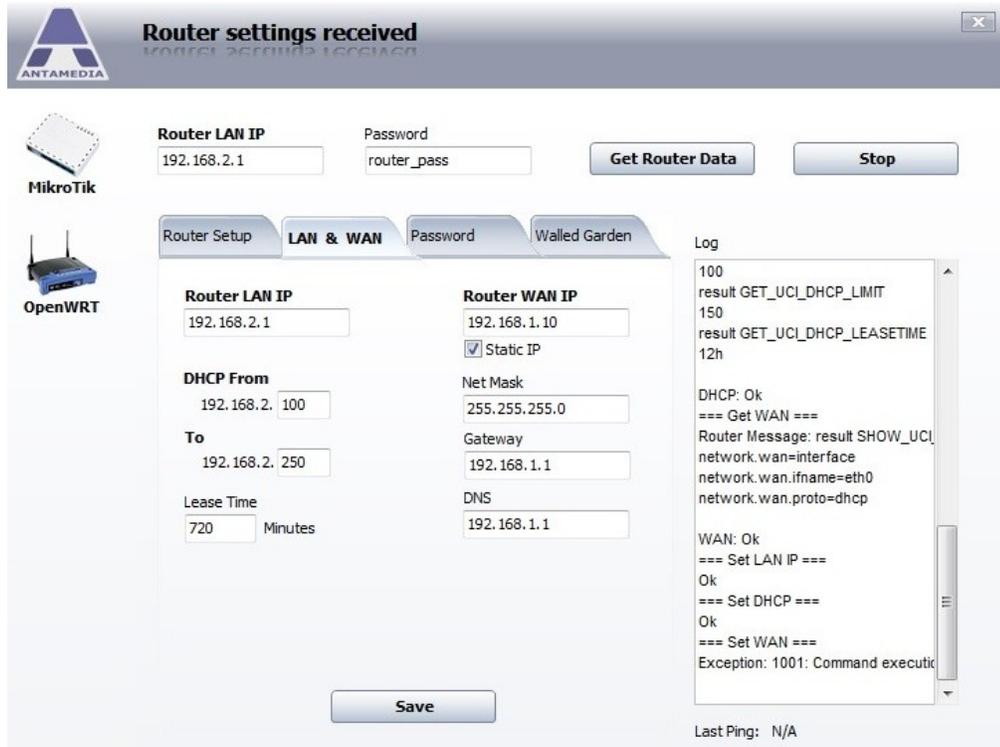
94

5. **Download** and **extract RouterAdmin** to the desktop of this PC
6. **Run as administrator** RouterAdmin.exe from and click on **OpenWRT** button
7. Enter **Router LAN IP** address and **Password** for the **root** user, click on **Get Router Data** button.



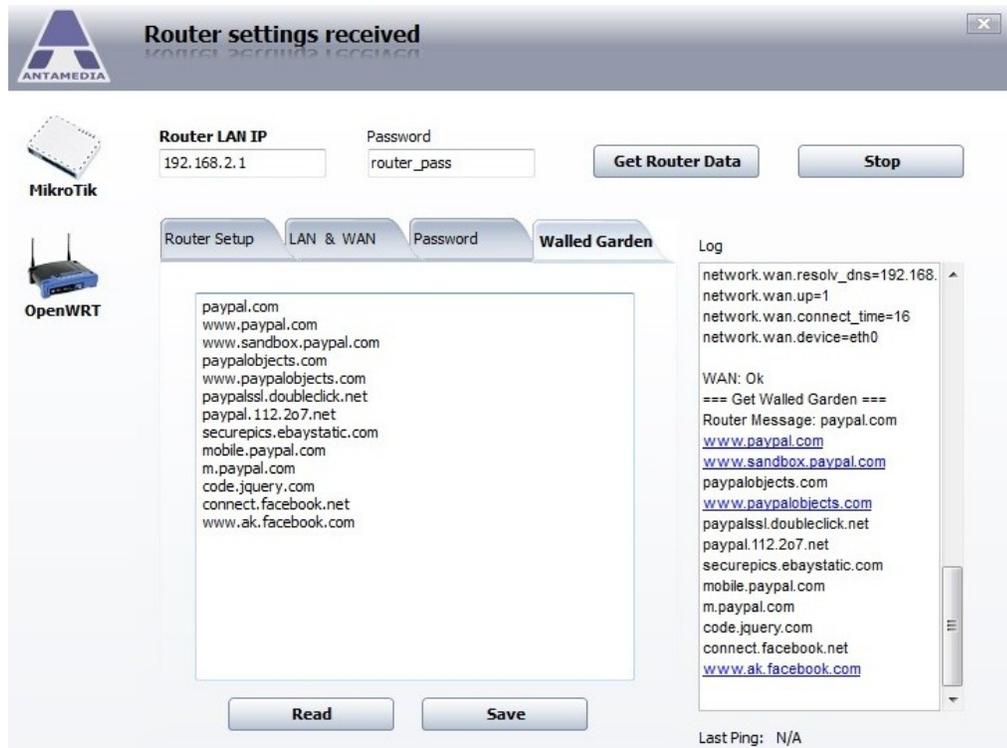
8. On the **Router Setup** tab set desired **SSID** for WiFi network, **do not enter HotSpot Server IP yet**.
9. If this is a first router you are connecting to HotSpot, set **Router ID** to **hotspot_1**, increase the number for every next **OpenWRT** router you add.
10. Make sure that **Router LAN Interface** is set to **br-lan** value.

11. Go to the **LAN & WAN** tab, optionally change **Router LAN IP** address.



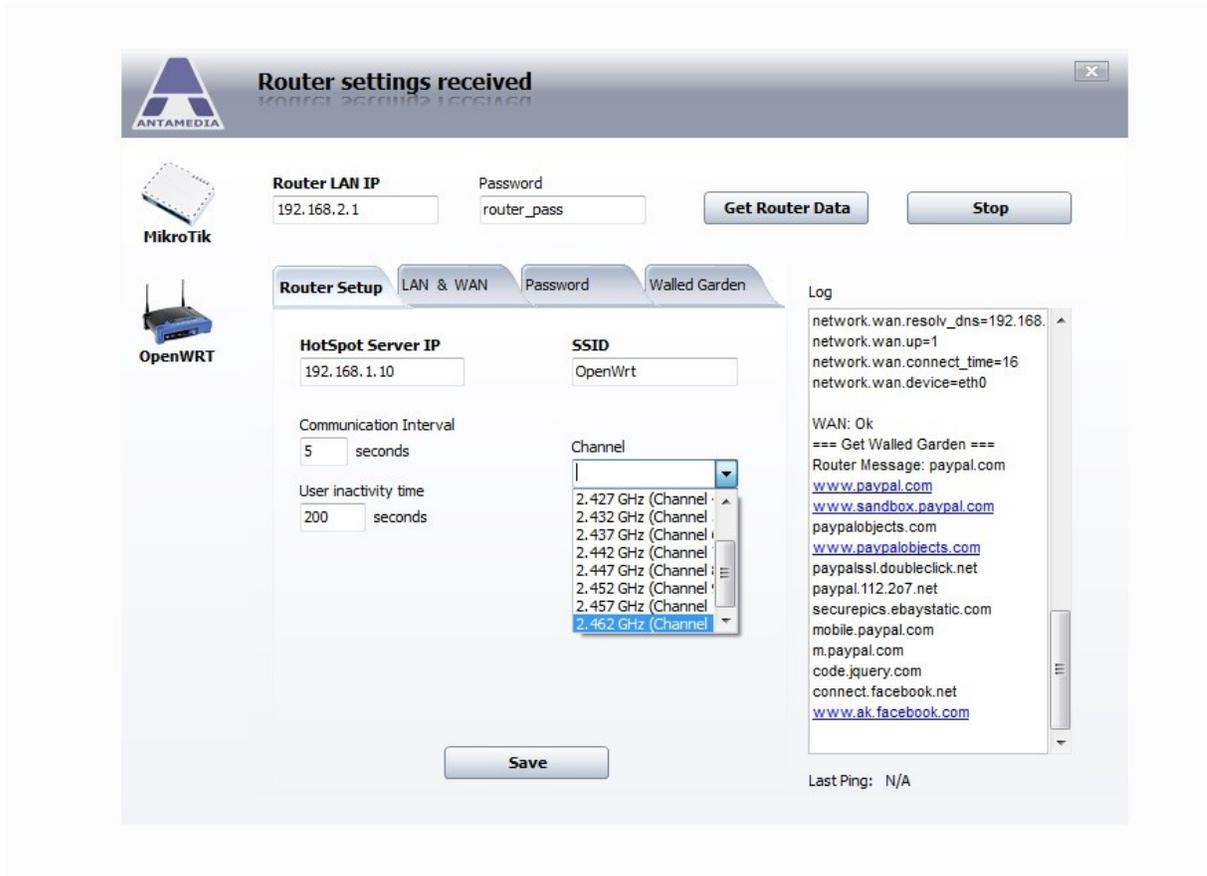
- 12. Set DHCP pool options (**From, To and Lease**).
- 13. Set **Router WAN IP** address and appropriate **NetMask**.
- 14. Set the default **Gateway** address and **DNS** server (Internet router IP, ISP DNS or public like 8.8.8.8)
- 15. **Important!** Make sure that **Static** box is ticked.
- 16. Click **Save** button to apply the settings for both LAN and WAN router interfaces.

17. (Optional) Configure a list of websites accessible without user authentication under **Walled Garden** tab.

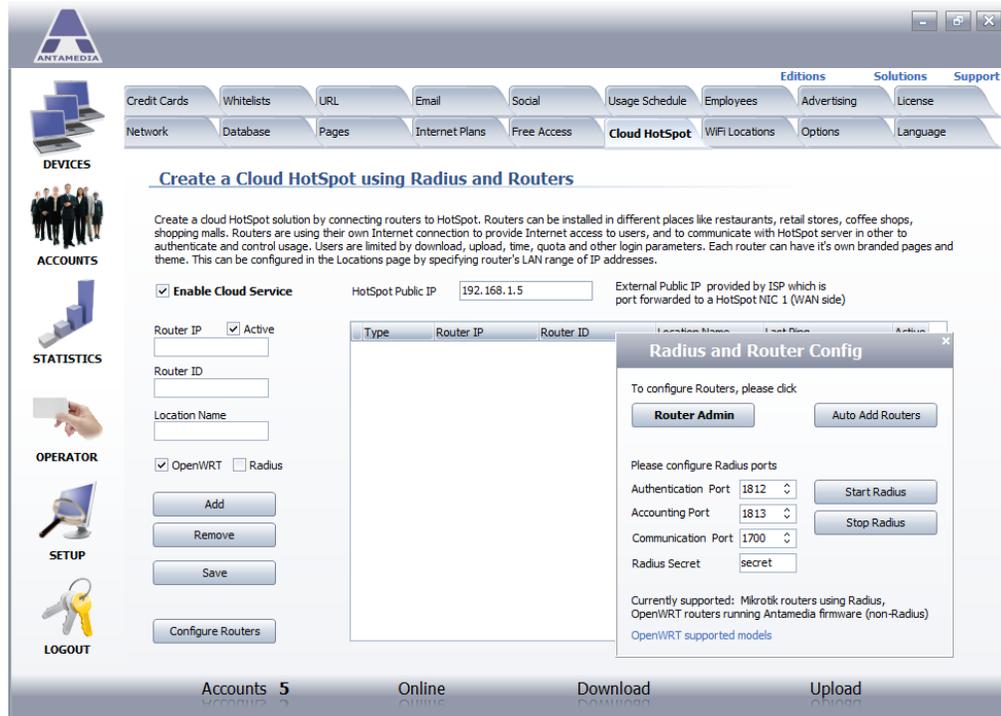


18. After saving, disable network card on the PC.
19. Physically turn off the router and wait 3 minutes.
20. After 3 minutes, enable network card on the PC.
21. Close **RouterAdmin** application.

22. Re-plug the network cable from **LAN** to **WAN** port of the router.
23. Start **RouterAdmin** application and go to **OpenWRT**, click on **Get Router Data** button.
24. Go to **Router Setup** tab and now enter remote **HotSpot Server IP** address.
25. Select one of the options from **Channel** drop-down menu, if you are unsure which, select the last one.
26. Click **Save** button.



After these procedures remote OpenWRT router will be ready to be added inside HotSpot software. Go to HotSpot - Setup - Cloud HotSpot page and click **Configure Routers** button. Click **Start Radius** and then **Auto Add Routers** button. Check **Enable Cloud Service** box and click **Save**, after that routers will be controlled by HotSpot software.



The screenshot shows the Antamedia HotSpot Cloud web interface. The main heading is "Create a Cloud HotSpot using Radius and Routers". Below this, there is a descriptive paragraph: "Create a cloud HotSpot solution by connecting routers to HotSpot. Routers can be installed in different places like restaurants, retail stores, coffee shops, shopping malls. Routers are using their own Internet connection to provide Internet access to users, and to communicate with HotSpot server in order to authenticate and control usage. Users are limited by download, upload, time, quota and other login parameters. Each router can have its own branded pages and theme. This can be configured in the Locations page by specifying router's LAN range of IP addresses."

Configuration options include:

- Enable Cloud Service**: HotSpot Public IP: 192.168.1.5. External Public IP provided by ISP which is port forwarded to a HotSpot NIC 1 (WAN side).
- Router IP: Active
- Router ID:
- Location Name:
- OpenWRT Radius

Buttons: Add, Remove, Save, Configure Routers.

A modal window titled "Radius and Router Config" is open, showing configuration options for Radius ports:

- To configure Routers, please click: **Router Admin** | **Auto Add Routers**
- Please configure Radius ports:
 - Authentication Port: 1812 | **Start Radius**
 - Accounting Port: 1813 | **Stop Radius**
 - Communication Port: 1700
 - Radius Secret: secret
- Currently supported: Mikrotik routers using Radius, OpenWRT routers running Antamedia firmware (non-Radius). [OpenWRT supported models](#)

At the bottom of the interface, there are status indicators: Accounts 5, Online, Download, and Upload.

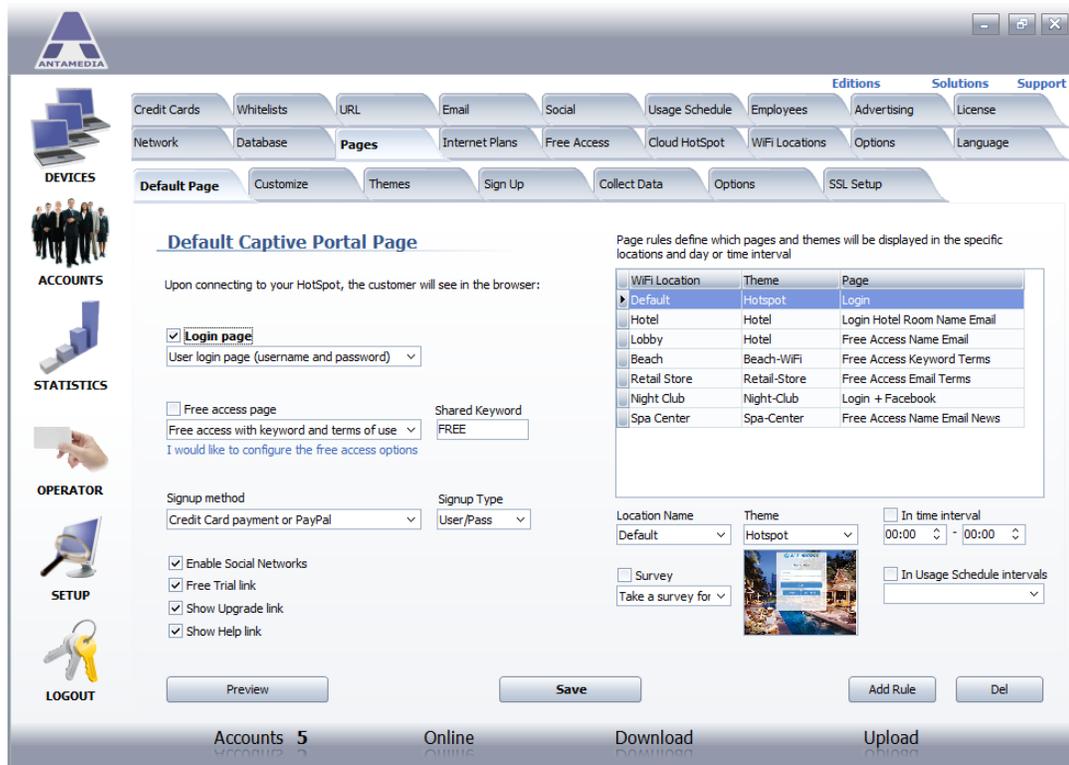
19 Free Access

Antamedia HotSpot software helps you offer Free WiFi access to customers in your Hotel, Restaurant, Cafe etc. Using HotSpot's Free Access mode you can efficiently manage and control WiFi service. You can choose whether users will access Internet by clicking on a button, entering shared keyword or signing up for free account.

Free users are tracked by MAC address, you can set HotSpot to automatically delete expired free users after specified time interval. If you want to re-enable expired free user immediately, please delete appropriate MAC address from the Free users list on the Accounts page.

To configure Hotspot in free access mode, please follow these steps:

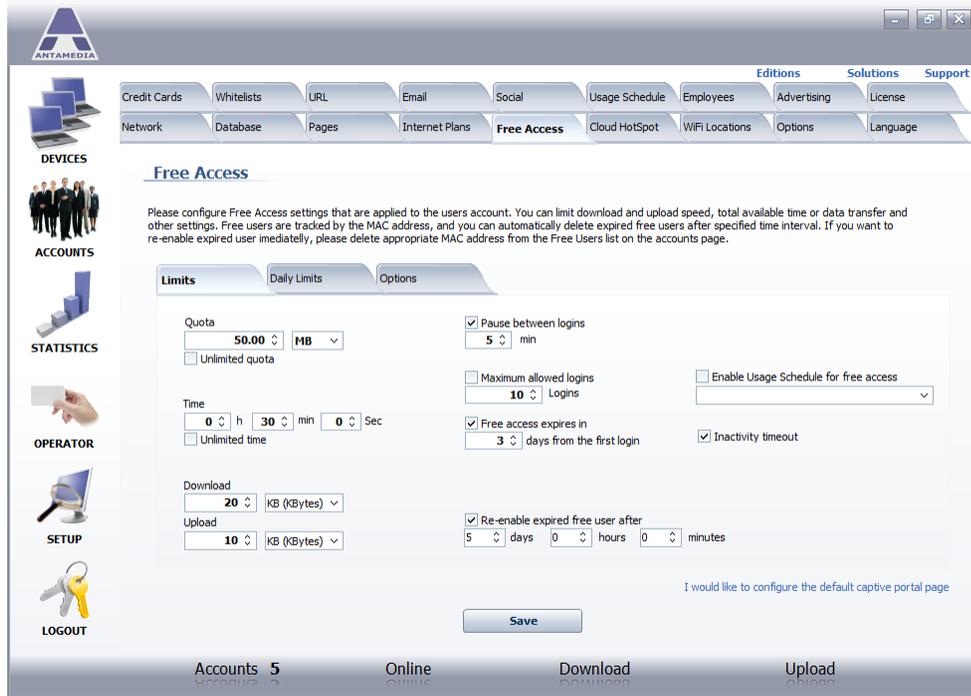
1. Go to HotSpot - Setup - Pages - Default page screen and choose **Login page** with a **free trial link** or **Free access page** option
2. Select Free access type and Free signup method if you want to set sign up also
3. Click **Save** button
4. Configure limits for free users on HotSpot - Setup - Free access page (these limits will be applied to Free users without an account and for accounts created with Free SignUp)
5. Click **Save** button



19.1 Free Access Limits

Free access can be limited with several parameters:

Quota	Specify quota for free user session
Unlimited quota	Set unlimited quota for user session
Time	Specify time for free user session
Unlimited time	Set unlimited time for fee user
Download	Download speed during free session
Upload	Upload speed during free session
Pause between logins	After logout user has to wait specified time period before HotSpot allows next login
Maximum allowed logins	Total number of allowed logins with one free account
Free access expires in	Free access expiration time, account will not be valid after specified number of days
Re-enable expired free user after	HotSpot can delete a free account after it expires, thus enabling the same device to create new free access account (since access is controlled with MAC address)
Enable Usage schedule for free access	Specify time period when user can login. Day and time rules are defined in HotSpot - Setup - Usage Schedule page.
Inactivity timeout	Automatically disconnects the users from the Internet after specified time of inactivity

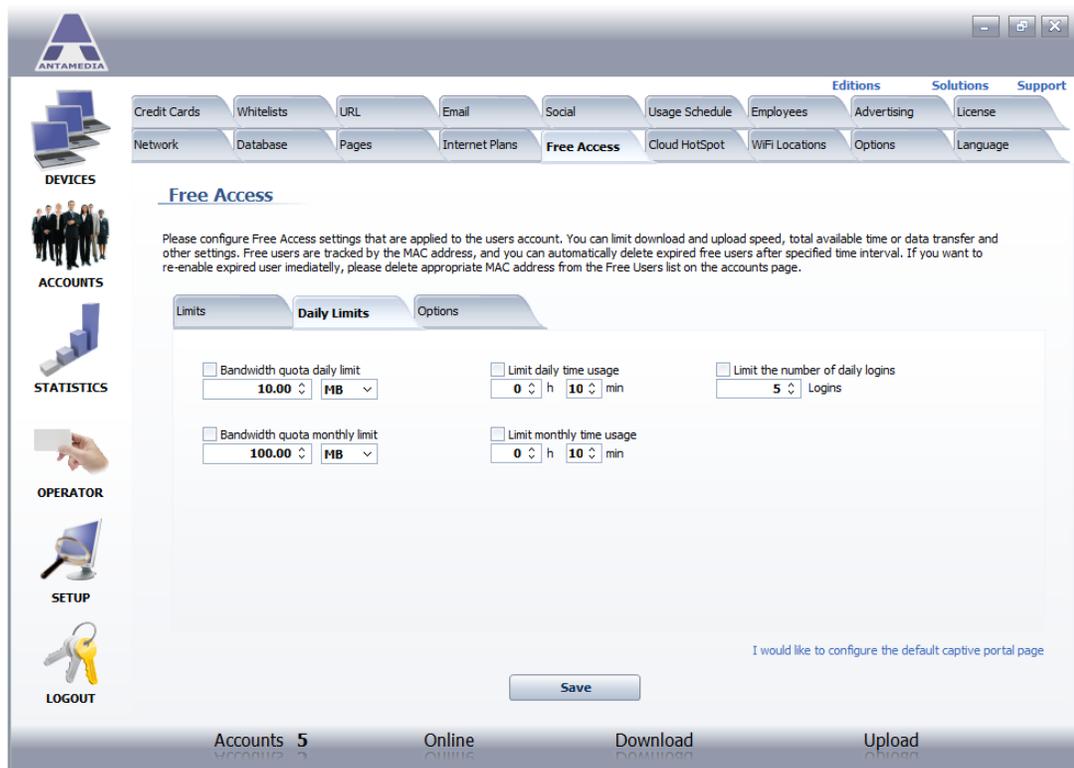


The screenshot shows the 'Free Access' configuration page in the Antamedia HotSpot management interface. The page is titled 'Free Access' and includes a navigation menu with options like 'Credit Cards', 'Whitelists', 'URL', 'Email', 'Social', 'Usage Schedule', 'Employees', 'Advertising', 'License', 'Network', 'Database', 'Pages', 'Internet Plans', 'Free Access', 'Cloud HotSpot', 'WiFi Locations', 'Options', and 'Language'. The 'Free Access' section is active, showing a 'Limits' tab with sub-tabs for 'Daily Limits' and 'Options'. The 'Limits' section contains several configuration fields: 'Quota' (50.00 MB), 'Time' (0 h, 30 min, 0 Sec), 'Download' (20 KB), and 'Upload' (10 KB). There are also checkboxes for 'Pause between logins' (5 min), 'Maximum allowed logins' (10 Logins), 'Free access expires in' (3 days), 'Inactivity timeout', and 'Re-enable expired free user after' (5 days, 0 hours, 0 minutes). A 'Save' button is located at the bottom of the configuration area. At the bottom of the page, there are summary statistics: 'Accounts 5', 'Online', 'Download', and 'Upload'. A link 'I would like to configure the default captive portal page' is also visible.

19.2 Free Access Daily Limits

Daily limits options used for free access are

- Bandwidth quota daily limit** Specify quota for free user session
- Bandwidth quota monthly limit** Set unlimited quota for user session
- Limit daily time usage** Specify time for free user session
- Limit monthly time usage** Set unlimited time for fee user
- Limit the number if daily logins** Download speed during free session



19.3 Free Access Options

Set of specific additional options for free access:

After login, show this message on welcome page

Set the text that free users will see on the page displayed after successful login. It can be used for promotional and marketing messages, instructions for users etc.

In the free signup process users may create only one free account

Activating of this option will limit free access with only one account from device based on MAC address

After login, redirect customer

Enter the URL of website to which you want to redirect free users after welcome page

Free time available for signup completion

This option applies to SMS and email free signup, after receiving a password user needs to login before specified time expires

SMS signup password should be __ characters long

Set how many characters should be used for Free signup with SMS confirmation

Enable multilogin for Free Signup accounts

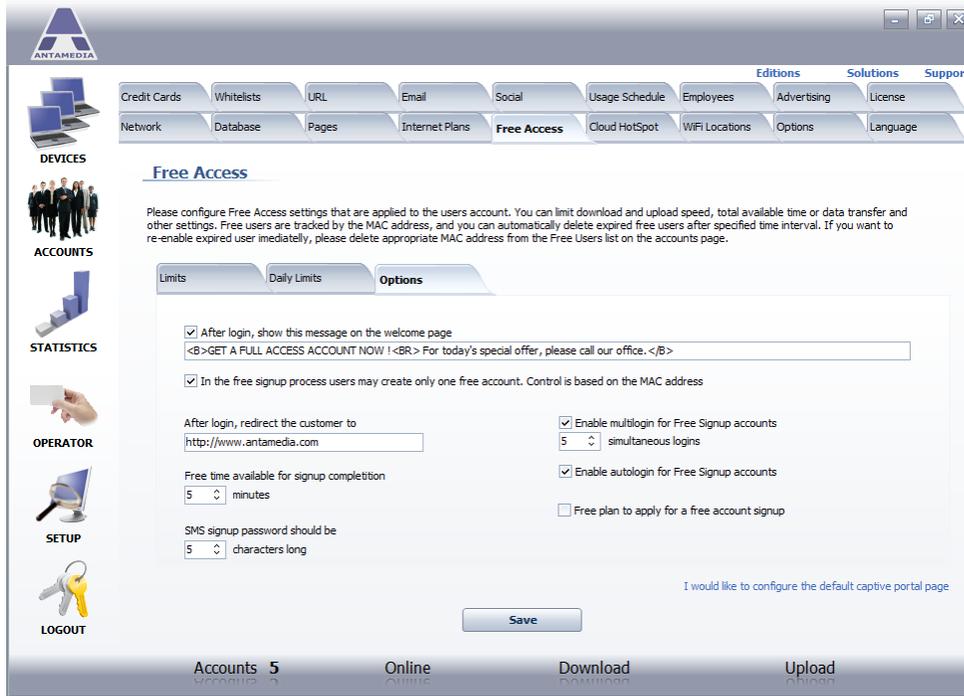
This option will allow use of same Free access account from different devices at same time

Enable autologin for Free Signup accounts

Free access account will be automatically logged in after activating of this option

Free plan to apply for a free account signup

Select this option to use only free Internet Plans for free signup



The screenshot shows the Antamedia HotSpot management interface. On the left is a sidebar with navigation icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The top navigation bar includes tabs for Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, License, Network, Database, Pages, Internet Plans, **Free Access**, Cloud HotSpot, WiFi Locations, Options, and Language. The main content area is titled "Free Access" and contains a descriptive paragraph: "Please configure Free Access settings that are applied to the users account. You can limit download and upload speed, total available time or data transfer and other settings. Free users are tracked by the MAC address, and you can automatically delete expired free users after specified time interval. If you want to re-enable expired user immediately, please delete appropriate MAC address from the Free Users list on the accounts page." Below this are three tabs: Limits, Daily Limits, and Options. The Options tab is active and contains several settings:

- After login, show this message on the welcome page. Below it is a text input field containing: GET A FULL ACCESS ACCOUNT NOW !
 For today's special offer, please call our office.
- In the free signup process users may create only one free account. Control is based on the MAC address
- After login, redirect the customer to: http://www.antamedia.com
- Free time available for signup completion: 5 minutes
- SMS signup password should be: 5 characters long
- Enable multilogin for Free Signup accounts. Value: 5 simultaneous logins
- Enable autologin for Free Signup accounts
- Free plan to apply for a free account signup

 A "Save" button is located at the bottom center. At the bottom right, there is a link: "I would like to configure the default captive portal page". At the very bottom, a status bar shows: Accounts 5, Online, Download, and Upload.

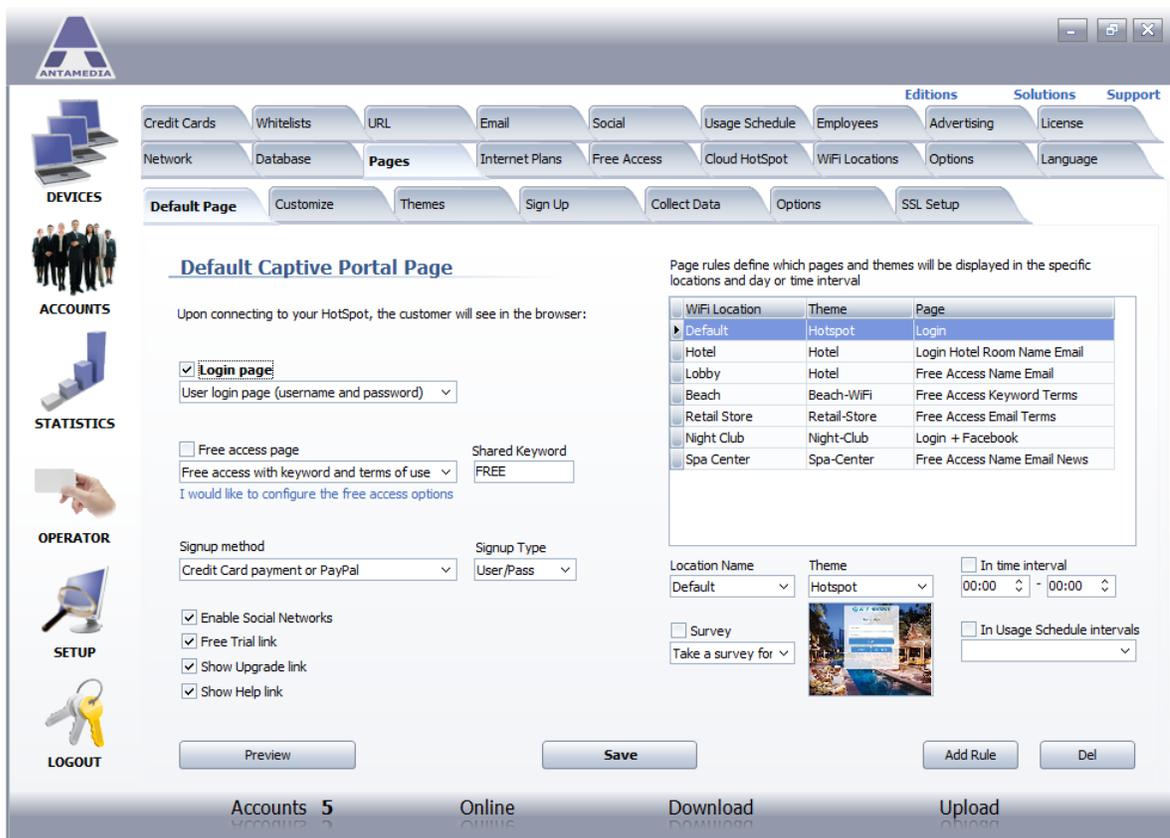
20 HotSpot Pages

20.1 Default page

Configuration of default HotSpot captive page is done from HotSpot - Setup - Pages - Default page screen, where you can customize the look and functionality of the page. To check how page will look like, click **Preview page in browser** button to launch default browser with Hotspot login page. Antamedia HotSpot allows you to set different page rules for each location configured on HotSpot - Setup - Locations page.

To configure a set of default page rules, please follow these steps:

1. Select the location for which you want to define page rules
2. Choose type and subtype of the default page.
3. Select **Sign Up method** (these are explained on HotSpot - Setup - Pages - Sign Up page).
4. Configure Theme settings
5. Click **Save** button



The screenshot shows the 'Default Captive Portal Page' configuration screen. The interface includes a sidebar with navigation options: DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area is titled 'Default Captive Portal Page' and contains the following elements:

- Text:** 'Upon connecting to your HotSpot, the customer will see in the browser:'
- Form Elements:**
 - Login page**: User login page (username and password)
 - Free access page**: Free access with keyword and terms of use. Includes a 'Shared Keyword' field with the value 'FREE' and a link 'I would like to configure the free access options'.
 - Signup method**: Credit Card payment or PayPal
 - Signup Type**: User/Pass
 - Enable Social Networks
 - Free Trial link
 - Show Upgrade link
 - Show Help link
- Table:** 'Page rules define which pages and themes will be displayed in the specific locations and day or time interval'

WiFi Location	Theme	Page
Default	Hotspot	Login
Hotel	Hotel	Login Hotel Room Name Email
Lobby	Hotel	Free Access Name Email
Beach	Beach-WiFi	Free Access Keyword Terms
Retail Store	Retail-Store	Free Access Email Terms
Night Club	Night-Club	Login + Facebook
Spa Center	Spa-Center	Free Access Name Email News
- Form Elements (Bottom Right):**
 - Location Name:** Default
 - Theme:** Hotspot
 - In time interval:** 00:00 - 00:00
 - In Usage Schedule intervals:** (empty dropdown)
 - Survey:** Take a survey for (dropdown)
- Buttons:** Preview, Save, Add Rule, Del

Available **Login Page** types:

User login page	Customers will login with username and password
Ticket login page	Customers will login with tickets, also called vouchers (represented with an alpha-numeric code)
Dual login page	This type of page combines user and ticket login page
Hotel login (PMS Room, Name)	Automates login process by integrating with Hotel PMS software (PMS add-on required). Guest will enter room number and last name, and if details are correct, Internet access will be granted and cost (if defined) will be added to the guest room bill
Hotel login (PMS Room, Name, Collect e-mail)	Same process with collecting e-mail address
Hotel login (PMS Room, Name, Collect mobile)	Same process with collecting mobile number
Hotel login (PMS, Free Keyword)	Combination of PMS based login and Free keyword access. Suitable for Lobby where free access is usually provided
Hotel login (PMS Room, Name + user login)	Combination of Login and Signup. Guest have to signup with room/last name, and select a plan. Cost (if defined) is added to the room. Next time guest can login with room and last name. If desired, guest can upgrade for a higher speed plan (following the initial signup steps) and cost will be again added to the room bill
Login + Facebook	Login page with username and password fields and a Facebook button that allows free access after user shares a post on the wall
Hotel login (PMS, Access Code, Free)	Hotel PMS integration with tickets and free access. Guests can login with room/name, walk-in customers with voucher access code, and lobby guests can use free access
Login with Free Signup and Upgrade	Login page with Free signup and Upgrade link
Login page with a Free Trial link	User login page with a link that allows users to access Internet using free access mode
Free access page	This type of default page contains form for one of the free access modes.

Free access types:

Free access with keyword and terms of use	Users are required to enter shared keyword and agree to your terms of use before getting free access
Free access with keyword	Users are required to enter shared keyword before getting free access
Free access with terms of use	Users are required to agree to your terms of use before getting free access
Free access with single click	Free access is allowed after user clicks a button, no keyword needed
Free access with Email and terms of use	Free access is allowed after user provides email address and agrees to your terms of use
Free access with Name and Email	Free access is allowed after user provides name, email address and agrees to your terms of use
Free access with social network	This type of page displays a Facebook button that allows free access after user shares a post on the wall
Free access with Ads	User gets free access after clicking on the displayed ad, requires Click add-on
Free access Name Email Newsletter	Free access based on the newsletter subscription
Free access with mobile sms verification	Free access based on sms verification

On the right side of the screen you can configure following options related to login page:

Location name	Select the location for which you want to configure page rules
Theme	Select one of the several offered styles for login and other pages
In time interval	(Optional) Configured page rules will be used only in time interval set here
In usage schedule intervals	(Optional) Configured page rules will be used only in usage intervals set here
Survey	Enabling of this option will show Survey on login page. From list select which of configured surveys will be used. Configure and Enable Survey ¹⁵⁷ before selecting this option.

Signup types:

Hide Signup link on login page	Hide signup link from Login page
Credit Card payment or PayPal	Users are redirected to payment gateway signup pages
Refill Voucher based sign up	Users can signup for account using refill voucher
PMS integration	Over Signup will be created accounts based on PMS integration
Free signup with terms of use	Free signup is allowed based on terms of use
Free signup	Free signup
Free signup with Email confirmation	Free signup with password send to email as confirmation
Free signup with SMS confirmation	Free signup with password send to phone as confirmation
Free signup with Name, Email and SMS confirmation	Free signup with Name, email and password send to phone as confirmation
Refill Voucher with SMS based sign up	Signup based on Voucher with SMS based signup

More informations specific settings used for Sign Up are available from [Sign Up Settings](#)¹¹³

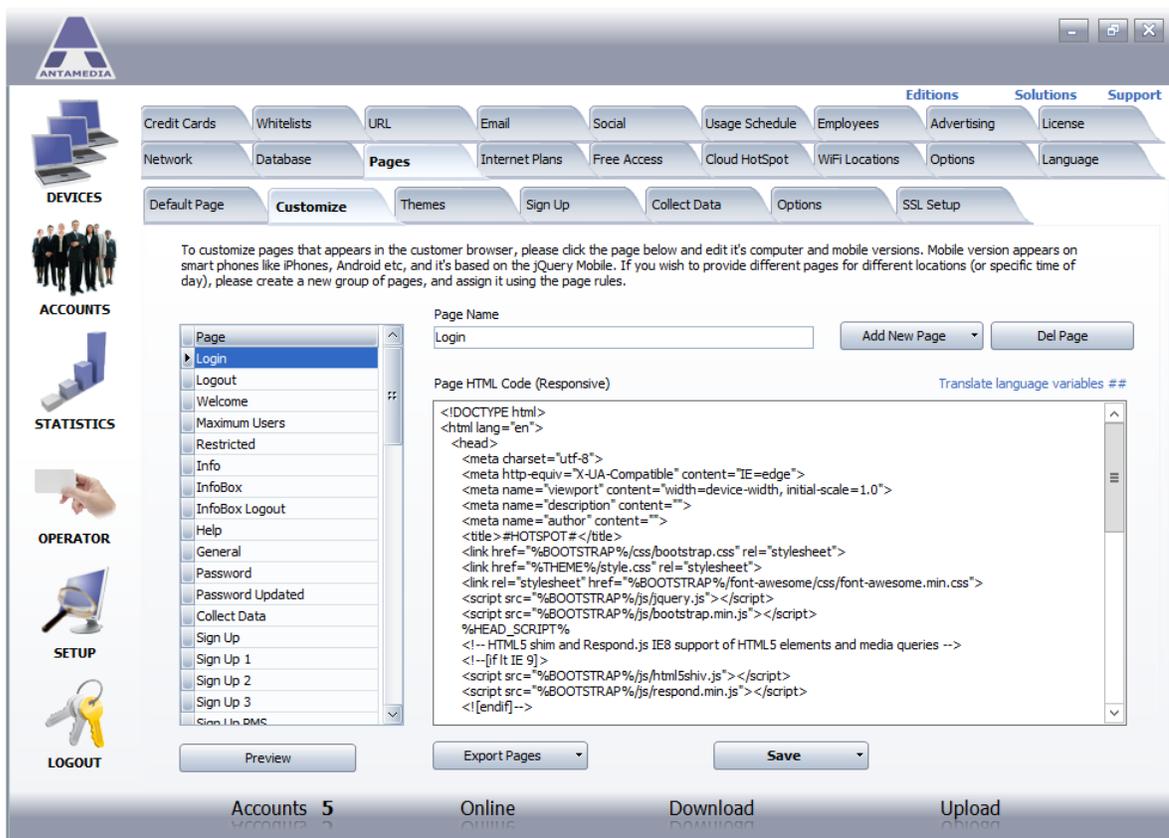
20.2 Customize

If you want to create a completely different design of HotSpot pages, or to integrate it with existing website, you can modify pages directly. Antamedia HotSpot software gives you an ability to modify all the pages displayed in customer browser like:

Login, Logout, Welcome, Max users, Restricted, Infobox, Info, Help etc. These pages are in HTML format. Unicode support is also included in software, this makes possible to use any language on the web pages.

You can edit the pages directly from the software on HotSpot - Setup - Pages - Customize page or using another editor like Notepad++, Dreamweaver etc. This requires exporting pages, press **Export** button to save the pages in C:\Antamedia\HotSpot\Pages folder, edit needed files in the same folder and import the files after you saved the changes (click the arrow on **Export** button). You can also define a new group of pages that can be used to set different page style for each Hotspot location.

Preview page in browser button will open a browser and display currently selected page so you can see how your page looks like. When you finish, please press **Save** button or **Copy and create a new group of pages**.



The screenshot shows the Antamedia HotSpot management interface. On the left is a sidebar with navigation icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main area has a top navigation bar with tabs like Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, License, Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, and Language. Below this is a sub-navigation bar with tabs for Default Page, Customize, Themes, Sign Up, Collect Data, Options, and SSL Setup. The 'Customize' tab is active, showing a list of pages on the left and a text editor on the right. The 'Login' page is selected. The text editor contains the following HTML code:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta name="description" content="">
  <meta name="author" content="">
  <title>#HOTSPOT# </title>
  <link href="%BOOTSTRAP%/css/bootstrap.css" rel="stylesheet">
  <link href="%THEME%/style.css" rel="stylesheet">
  <link rel="stylesheet" href="%BOOTSTRAP%/font-awesome/css/font-awesome.min.css">
  <script src="%BOOTSTRAP%/js/jquery.js"></script>
  <script src="%BOOTSTRAP%/js/bootstrap.min.js"></script>
  %HEAD_SCRIPT%
  <!-- HTML5 shim and Respond.js IE8 support of HTML5 elements and media queries -->
  <!--[if lt IE 9]>
  <script src="%BOOTSTRAP%/js/html5shiv.js"></script>
  <script src="%BOOTSTRAP%/js/respond.min.js"></script>
  <![endif]-->

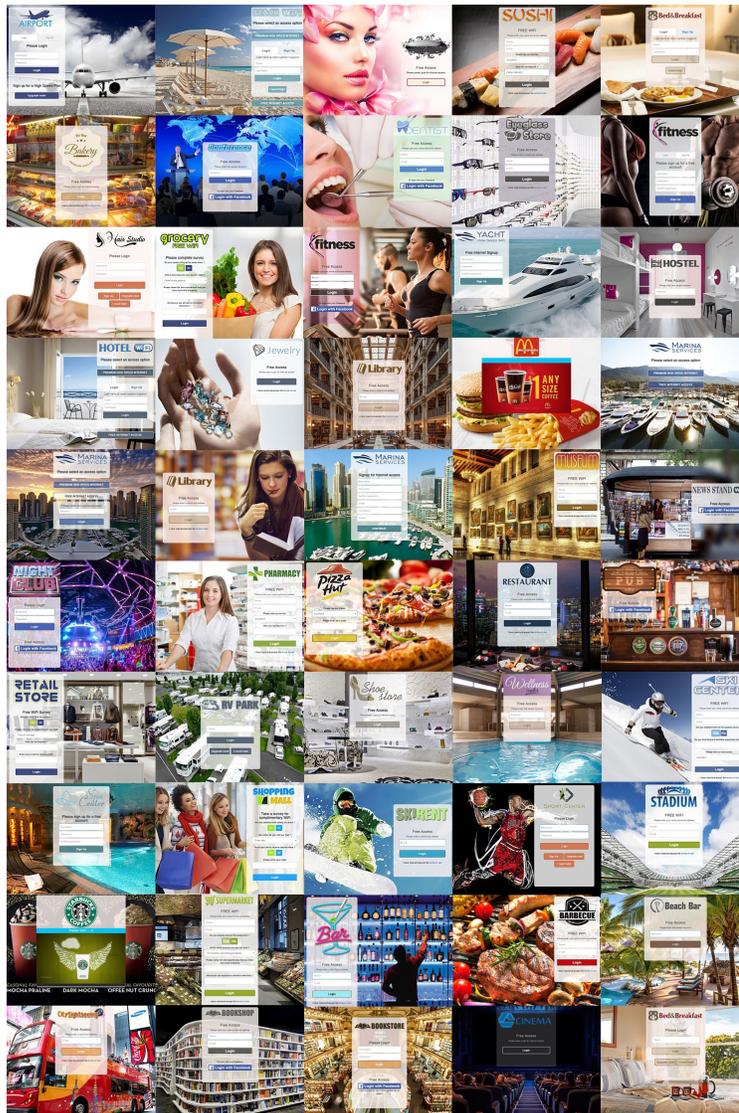
```

At the bottom of the interface, there are buttons for 'Preview', 'Export Pages', and 'Save'. A status bar at the very bottom shows 'Accounts 5', 'Online', 'Download', and 'Upload'.

20.3 Themes

HotSpot Themes are easy and convenient way to completely change how the HotSpot pages look in customer browser. Changing theme is very simple. In **Current Theme** field located in HotSpot - Setup - Pages - Default page screen, configure the preferred theme and your customers will see the change in their browsers for every new HotSpot page they open.

Antamedia HotSpot comes with **50+ themes** which you are allowed to use and modify for your purposes (redistribution is not allowed).

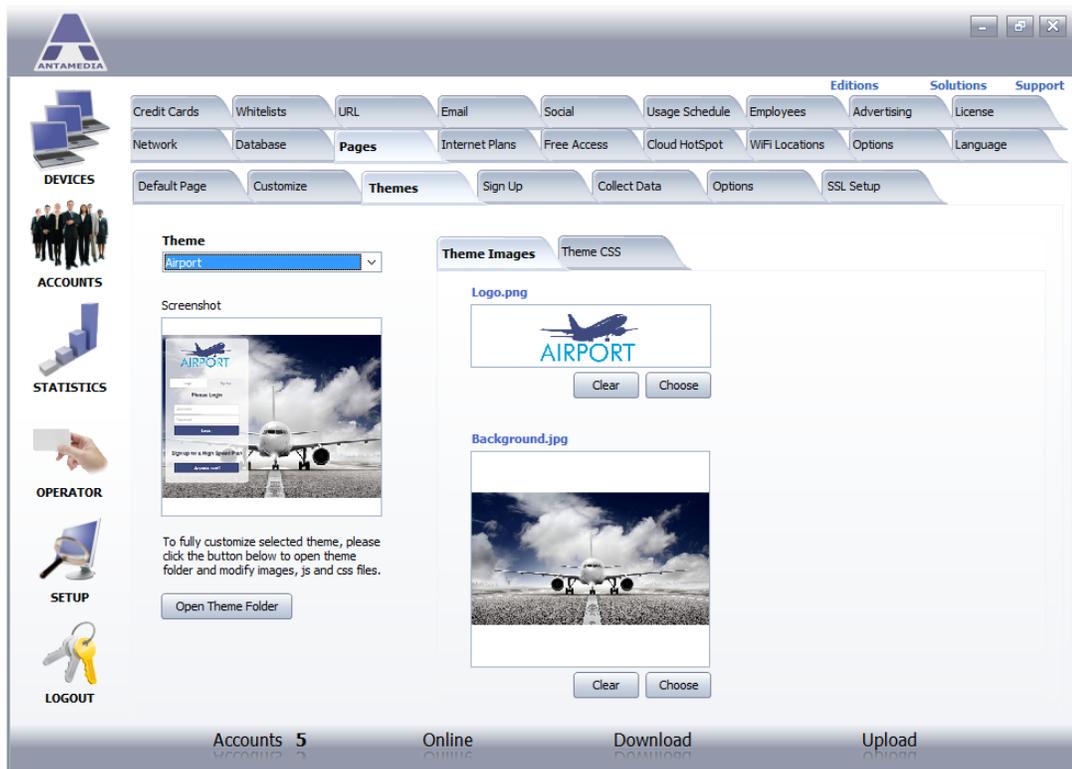


To customize it, please go to HotSpot - Setup - Pages - Themes. You'll find options to change image for the main logo, brand logo (bottom of the page), buttons and background. Logo and button images have to be in .png format, background requires .jpg file.

How to customize a HotSpot theme, step by step? The example below will cover main logo change, procedure is the same for buttons and background (except .jpg format).

1. Go to HotSpot - Setup - Pages - Themes screen
2. Select the theme you want to customize
3. Click **Open Theme Folder** button
4. Check what are dimensions of Logo.png file
5. Create a file with your logo that has the same dimensions, save it in .png format
6. Click **Clear** button to remove default image
7. Click **Choose** button, select your logo file and press **Open**
8. Go to HotSpot - Setup - Pages - Default page screen and press **Preview page in a browser** button to confirm the change

Themes can be further modified in order to match your corporate look. You can change colors, modify graphics and buttons and change the layout of page elements. These details are specified in Style.css file which can be modified directly from Themes page(click on **Theme CSS** tab) or using another editor like Notepad++ or Dreamweaver, file is located in each theme folder (like C:\Antamedia\HotSpot\www\Themes\Hotspot).



20.4 Sign Up Settings

Antamedia HotSpot provides automated self service signup process. When a customer clicks the 'Sign Up' link on the login page, browser will be redirected to the sign up page which is defined for it's location. This page defines available sign up methods for your customers.

Credit Card payment based sign up (requires license for the credit card module)

Customer chooses username, password, price plan and pays with the credit card. Price plan defines limitations like time, bandwidth quota, download and upload rates, expiration date, daily access limits etc.

Refill Voucher based sign up

Customer chooses username, password and enters refill voucher code. Refill vouchers are created in advance with desired price plan limitations (time, bandwidth quota, download and upload rates), and they can be distributed or sold by your staff, resellers or through your channel partners. it may be done using **HTTP** or **HTTPS** based page.

PMS integration (requires PMS Interface module)

Customer chooses username, password, price plan and confirms identity with a room number and personal details. If successful, payment is added on provided room number, and customer will see this charge in the Hotel PMS system. In addition you can set **Default Price Plan for PMS signups**

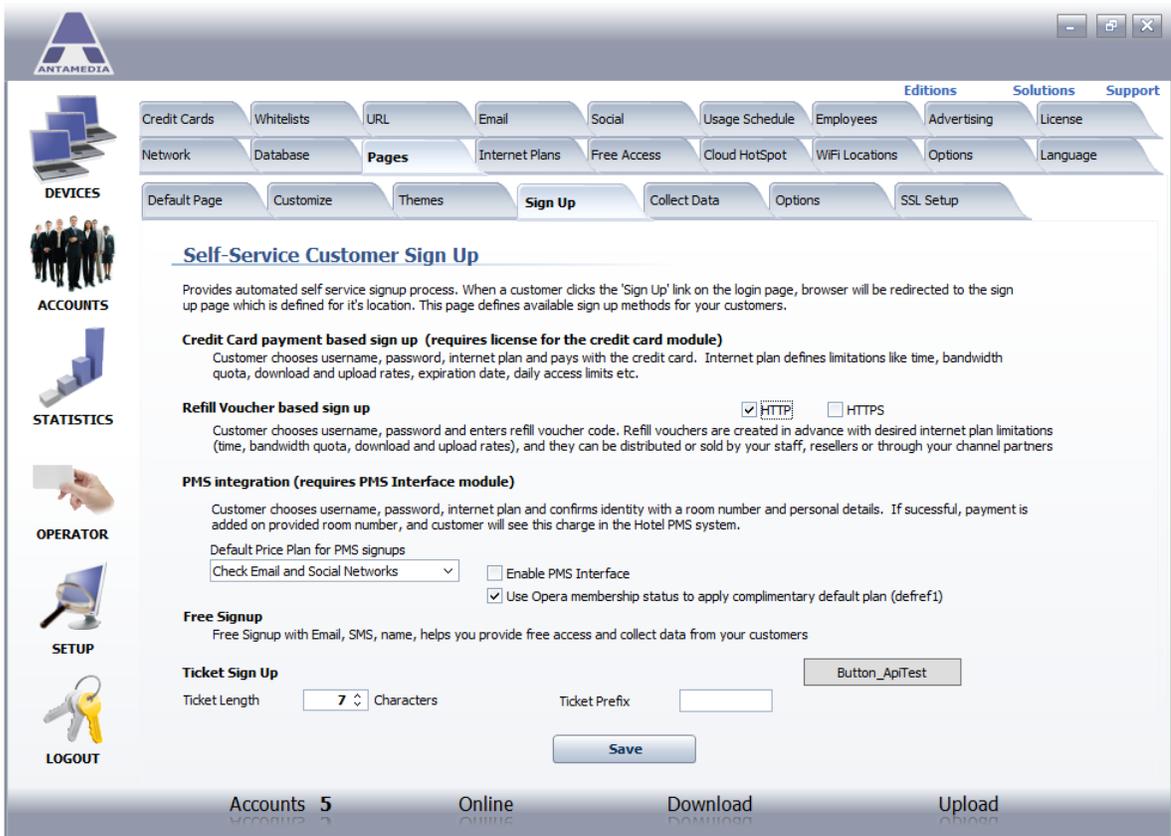
Select to **Enable PMS Interface** in general or to **Use Opera membership status to apply complimentary default plan**

Free Signup

Free Signup with Email, SMS, name, helps you to provide free access and collect data from your customers

Ticket Sign Up

Specify number of characters used in **Ticket Length** and **Ticket Prefix** used in Free Sign Up



The screenshot shows the Antamedia HotSpot Management Interface. On the left is a vertical sidebar with icons and labels for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area has a top navigation bar with tabs for Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, License, Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, and Language. Below this is a sub-navigation bar with tabs for Default Page, Customize, Themes, Sign Up, Collect Data, Options, and SSL Setup. The 'Sign Up' tab is active, displaying the 'Self-Service Customer Sign Up' configuration page.

Self-Service Customer Sign Up

Provides automated self service signup process. When a customer clicks the 'Sign Up' link on the login page, browser will be redirected to the sign up page which is defined for it's location. This page defines available sign up methods for your customers.

Credit Card payment based sign up (requires license for the credit card module)
 Customer chooses username, password, internet plan and pays with the credit card. Internet plan defines limitations like time, bandwidth quota, download and upload rates, expiration date, daily access limits etc.

Refill Voucher based sign up HTTP HTTPS
 Customer chooses username, password and enters refill voucher code. Refill vouchers are created in advance with desired internet plan limitations (time, bandwidth quota, download and upload rates), and they can be distributed or sold by your staff, resellers or through your channel partners

PMS integration (requires PMS Interface module)
 Customer chooses username, password, internet plan and confirms identity with a room number and personal details. If successful, payment is added on provided room number, and customer will see this charge in the Hotel PMS system.

Default Price Plan for PMS signups
 Check Email and Social Networks Enable PMS Interface Use Opera membership status to apply complimentary default plan (defref1)

Free Signup
 Free Signup with Email, SMS, name, helps you provide free access and collect data from your customers

Ticket Sign Up

Ticket Length Characters Ticket Prefix

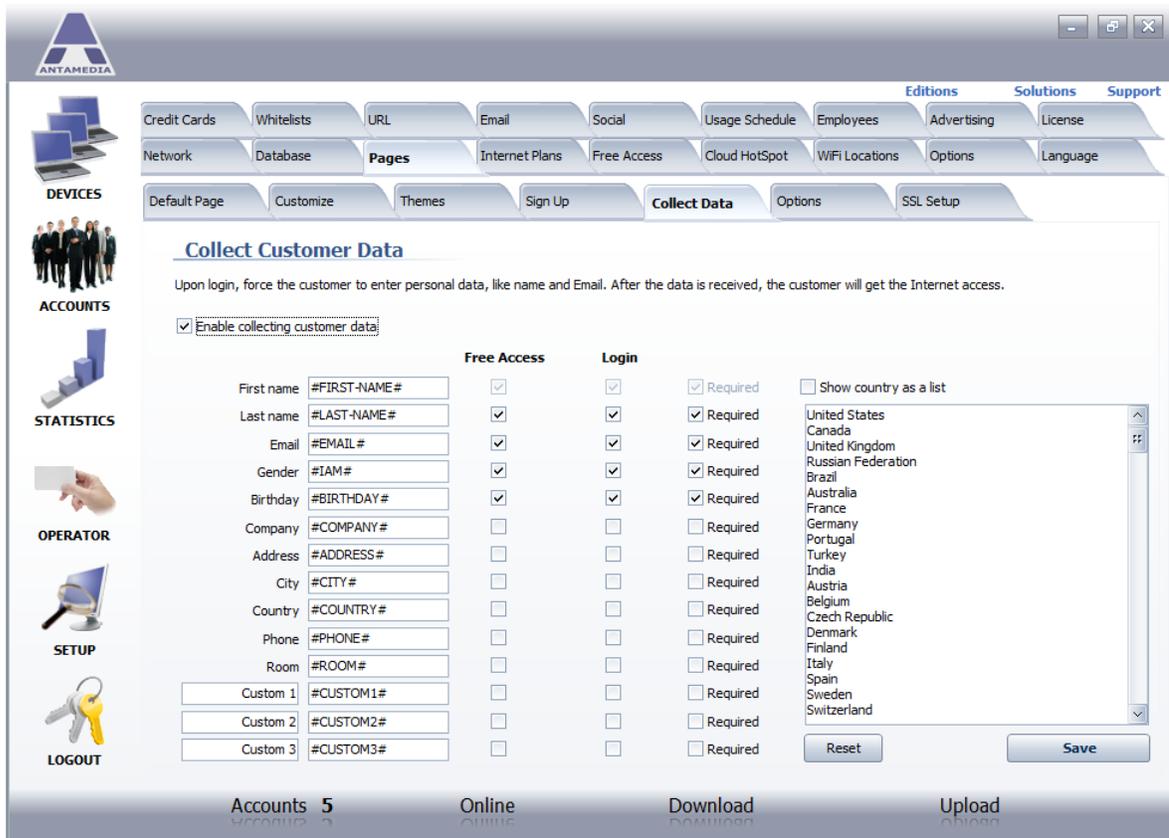
Accounts 5 Online Download Upload

20.5 Collecting Customer Details

Antamedia HotSpot has an ability to force a user to enter **personal data** after login. You can do it in order to verify customer identity, in marketing purposes, or just to send expiration reminder message so that a customer can upgrade in time. This option can be used for Free Access or standard Login method.

By default, Hotspot collects first and the last name, E-mail address, gender, birthday, but you can also include address, city, country, phones. There are three custom fields that you can configure based on requirement. It may contain FLIGHT No, ROOM etc.

To activate this feature, please **Enable collecting customer data** option that is located in the HotSpot - Setup - Pages - Collect Data page.



Collect Customer Data

Upon login, force the customer to enter personal data, like name and Email. After the data is received, the customer will get the Internet access.

Enable collecting customer data

	Free Access	Login	
First name #FIRST-NAME#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Required
Last name #LAST-NAME#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Required
Email #EMAIL#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Required
Gender #IAM#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Required
Birthday #BIRTHDAY#	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Required
Company #COMPANY#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Address #ADDRESS#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
City #CITY#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Country #COUNTRY#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Phone #PHONE#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Room #ROOM#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Custom 1 #CUSTOM1#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Custom 2 #CUSTOM2#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required
Custom 3 #CUSTOM3#	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Required

Show country as a list

- United States
- Canada
- United Kingdom
- Russian Federation
- Brazil
- Australia
- France
- Germany
- Portugal
- Turkey
- India
- Austria
- Belgium
- Czech Republic
- Denmark
- Finland
- Italy
- Spain
- Sweden
- Switzerland

Reset Save

Accounts 5 Online Download Upload

20.6 Welcome Page and Options

Antamedia HotSpot allows you to customize the Welcome page message that appears after customer login. It can be configured to show a warning message, which informs a customer about the account expiration if time and quota are below the limits or the expiration date is close.

Such warning messages are important since a customer will be informed when it is the time to refill account or to make monthly payment. At the same time, the software will prevent a customer frustration which may happen if the account unexpectedly expire. Timely renewals will make your customers come back leading to more profit.

To configure the warning message, please choose the parameters which should be verified on customer login:

Account expires in less than _ days

Time left is less than _ minutes

Quota left is less than _ MB

Please enable the desired options and enter the appropriate values.

The text of welcome and warning messages can be customized by editing language file from the [Browser Language](#) ¹⁶⁸ page.

HotSpot can redirect customer after login to a desired web page. For example, you can redirect customer to your main website or to a customer portal. Select option **After Login, redirect the customer to** and enter site address.

Page Options panel give you ability to set couple useful options for communication with iOS, Android and Windows based devices on network and during user access to HotSpot portal page.

As soon device connects to your WiFi, it will trigger and display default captive login page. In some cases it can cause delays in displaying login page. Use of following set of options can prevent this and load your login page without such delays.

Send iOS devices to browser login

Force loading of HotSpot login page in a iOS device browser.

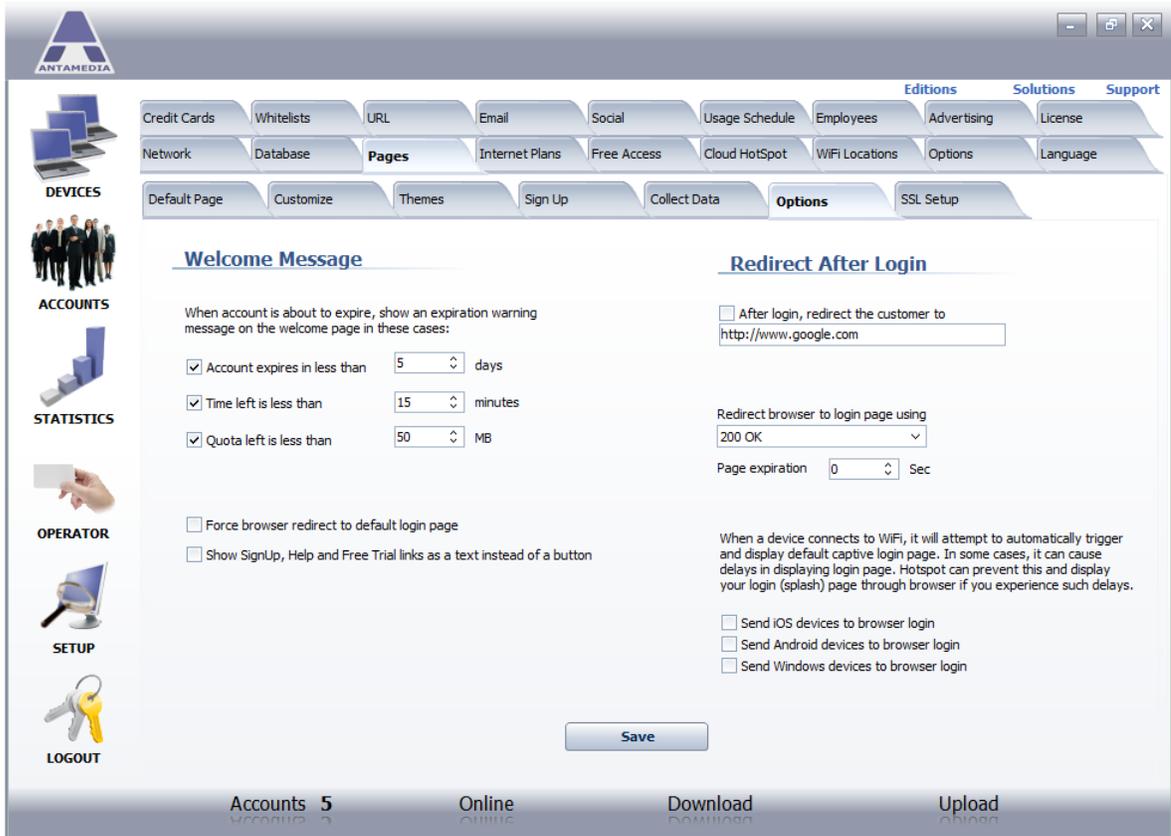
Send Android devices to browser login

Force loading of HotSpot login page in a Android device browser.

Send Windows devices to browser login

Force loading of HotSpot login page in a Windows device browser.

HotSpot autostart delay (allow system to boot on slower machines) _ seconds Set number of seconds for autostart delay. Slower systems require use of this option to avoid issue with faster startup of HotSpot than other required devices and applications on computer.



The screenshot shows the Antamedia HotSpot management interface. The top navigation bar includes 'Editions', 'Solutions', and 'Support'. Below this is a menu with categories like 'Credit Cards', 'Whitelists', 'URL', 'Email', 'Social', 'Usage Schedule', 'Employees', 'Advertising', 'License', 'Network', 'Database', 'Pages', 'Internet Plans', 'Free Access', 'Cloud HotSpot', 'WiFi Locations', 'Options', and 'Language'. The 'Options' sub-menu is active, showing 'Default Page', 'Customize', 'Themes', 'Sign Up', 'Collect Data', 'Options', and 'SSL Setup'.

The main content area is divided into two sections:

- Welcome Message:**

When account is about to expire, show an expiration warning message on the welcome page in these cases:

 - Account expires in less than days
 - Time left is less than minutes
 - Quota left is less than MB

Force browser redirect to default login page

Show SignUp, Help and Free Trial links as a text instead of a button
- Redirect After Login:**

After login, redirect the customer to

Redirect browser to login page using

Page expiration Sec

When a device connects to WiFi, it will attempt to automatically trigger and display default captive login page. In some cases, it can cause delays in displaying login page. Hotspot can prevent this and display your login (splash) page through browser if you experience such delays.

 - Send iOS devices to browser login
 - Send Android devices to browser login
 - Send Windows devices to browser login

A 'Save' button is located at the bottom of the main content area.

The bottom status bar shows: Accounts 5, Online 0, Download 0, Upload 0.

20.7 SSL Certificate

SSL Certificate is used to encrypt communication between HotSpot Web Server and customer Internet browser. Secure connection can be used:

- to switch to secure login. Instead of standard http:// based login page, customer can go to <https://yourIPorDomain/login> and authenticate through secure connection
- when customer is about to pay with credit card, to keep the data safe
- to change account password

To configure SSL certificate, you need to specify correct location of Certification File, Private Key File and CAcert Root Certificate file.

HotSpot comes with default SSL certificate produced for IP 192.168.0.1. Although this is included free of charge, it creates a warning messages in browser and might drive away customers. If you want to create your own certificate file, please follow instructions bellow:

It is assumed that [OpenSSL](#) is installed on your system. It is also assumed that you have registered a domain name for your hotspot and that its DNS has been configured to point to the IP address of your hotspot server.

To begin the process, a Certificate Signing Requests (CSR) must be sent to a Certificate Authority (CA) to be signed. Once signed, a certificate will be returned to you. Be sure to check with the CA in question for any instructions not covered here. This process has been successfully tested on Windows XP using a FreeSSL 1 month test certificate provided by [RapidSSL.com](#). The procedure is the same for RapidSSL's commercial products and should be very similar with other CAs.

1. Generate a private RSA key

Run OpenSSL and at the command line prompt, enter:

```
OpenSSL> genrsa -out host.key 1024
```

A file named host.key file will be generated in the same directory as the 'OpenSSL' command line program. Keep this file safe! Without it, your certificate can't work and you'll have to order a new one. This file is your private RSA host key and should not be sent anywhere.

2. Generate a CSR

```
OpenSSL> req -new -nodes -key host.key -out host.csr
```

Enter the requested information when prompted. Be sure to use the correct 2 digit country code. When prompted for the x509 Common Name attribute, enter the fully qualified hostname (domain name) the certificate will be used with. Please note, this MUST be the exact domain name being used for the hotspot server. ie. the domain should resolve to the IP address of your hotspot server.

Common Name (eg, YOUR name) []:www.yourhotspot.com

where www.yourhotspot.com is the domain name of your hotspot. The e-mail address you provide will likely be used by the CA to deliver your certificate. Leave any subsequent attributes blank, unless the CA requests something be set in them. Upon completion of this step, a file named host.csr will be created in the same directory.

3. Deliver the CSR data to the CA

The contents of the host.csr file must be submitted to the CA, though the method will vary. The procedure with RapidSSL is to copy/paste the contents of the host.csr file into their web order form. It is then up to the CA to

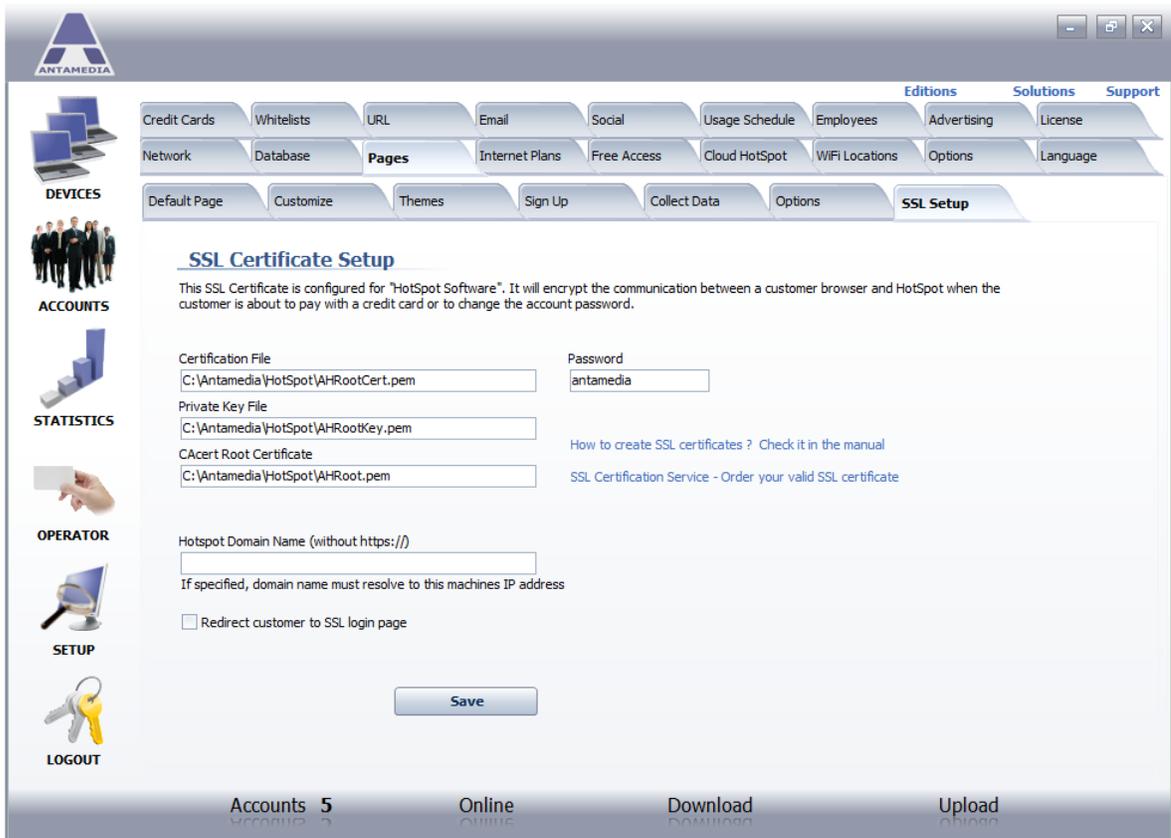
return the certificate data. Most CAs will require some form of authentication. RapidSSL uses an automated phone system which calls and prompts you to enter the digits on your computer screen. You must also confirm you have admin access to your domain name. Other CAs may have further requirements.

4. Setup Files for use with Antamedia Hotspot

Once the certificate has arrived from the CA (usually via email) you must copy/paste the certificate into a text file. Name the text file AHRootCert.pem. Rename the host.key file that was generated at the beginning to AHRootKey.pem. Finally, obtain the Root Certificate file which should be provided as a download from your CA. [Click here](#) to obtain the FreeSSL Root Certificate (Base-64 encoded X.509) from RapidSSL. Rename the downloaded Root Certificate file to AHRoot.pem. Now place all three files (AHRootCert.pem, AHRootKey.pem, AHRoot.pem) at the root level of the Hotspot installation folder (replacing the existing files). Launch Hotspot and login as administrator. Go to SETUP->Pages->SSL Setup and enter the domain name of your hotspot server (omit the https:// and enter just the domain). Please note, this must be the exact domain name used on the certificate and must resolve to the IP address of the hotspot server. Save, connect to the hotspot and test the certificate.

However, if you want a fully working SSL certificate which doesn't create any browser warnings, we recommend ordering your own certificate from SSL Certification Service www.hotspotssl.net. You will get correct files so you can skip a bit complicated process. Such certificate allows you to show your domain in customer browser instead of HotSpot IP address. For example, instead of <http://192.168.0.1/info> customer will see <http://www.myhotspotname.com/info>

Please note that Antamedia doesn't collect any fees from this service, and we recommend it as a money worth alternative to the manual certification process.



The screenshot displays the Antamedia HotSpot Management Interface. The top navigation bar includes sections for **Editions**, **Solutions**, and **Support**. Below this, a grid of menu items is visible, with **Pages** selected. The left sidebar contains icons for **DEVICES**, **ACCOUNTS**, **STATISTICS**, **OPERATOR**, **SETUP**, and **LOGOUT**. The main content area is titled **SSL Certificate Setup** and contains the following text and form fields:

This SSL Certificate is configured for "HotSpot Software". It will encrypt the communication between a customer browser and HotSpot when the customer is about to pay with a credit card or to change the account password.

Certification File: **Password:**

Private Key File:

CAcert Root Certificate: [How to create SSL certificates ? Check it in the manual](#)
[SSL Certification Service - Order your valid SSL certificate](#)

Hotspot Domain Name (without https://):

If specified, domain name must resolve to this machines IP address

Redirect customer to SSL login page

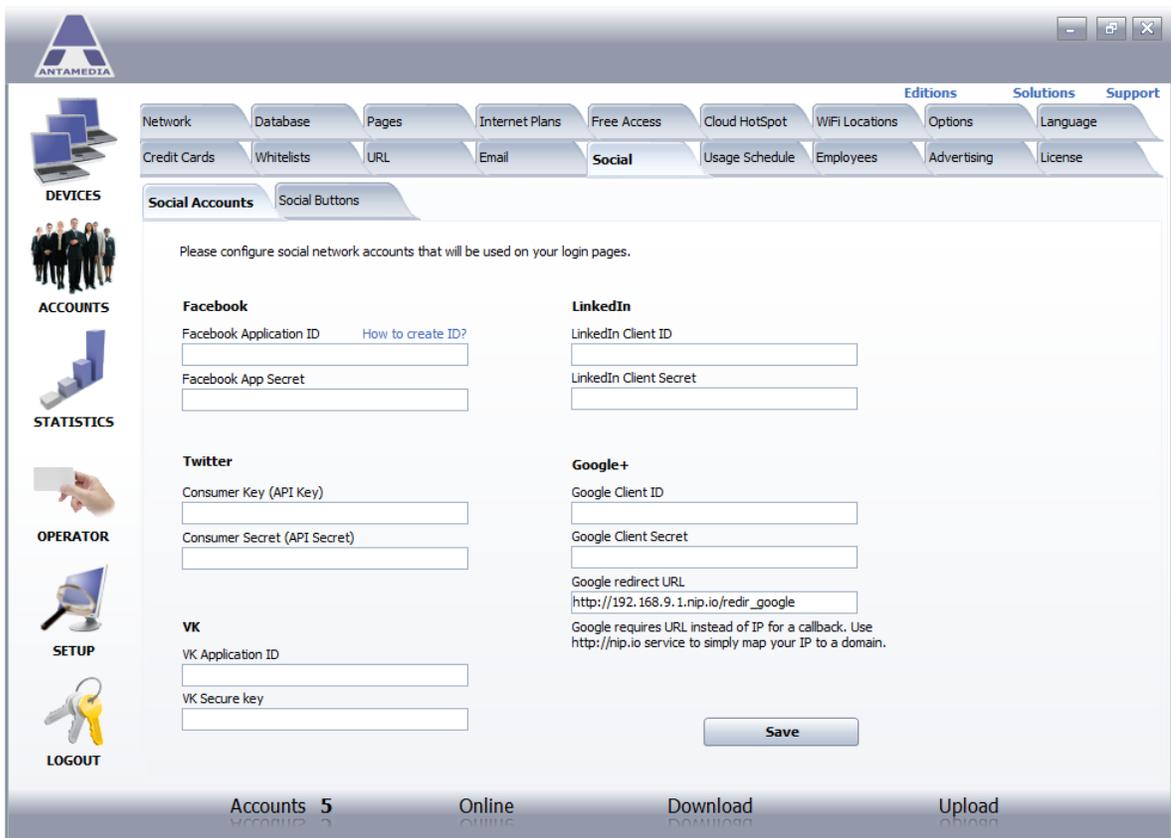
At the bottom of the interface, there are summary statistics: **Accounts 5**, **Online**, **Download**, and **Upload**.

21 Social Networks

21.1 Social Accounts

For those busy people, login with social account is sometimes the best and the fastest choice to get WiFi. Our software can be configured to accept login from several social networks. Since users are usually logged in on their mobile devices, the only thing they need to do is to click the button of a preferred social network, and confirm login to WiFi.

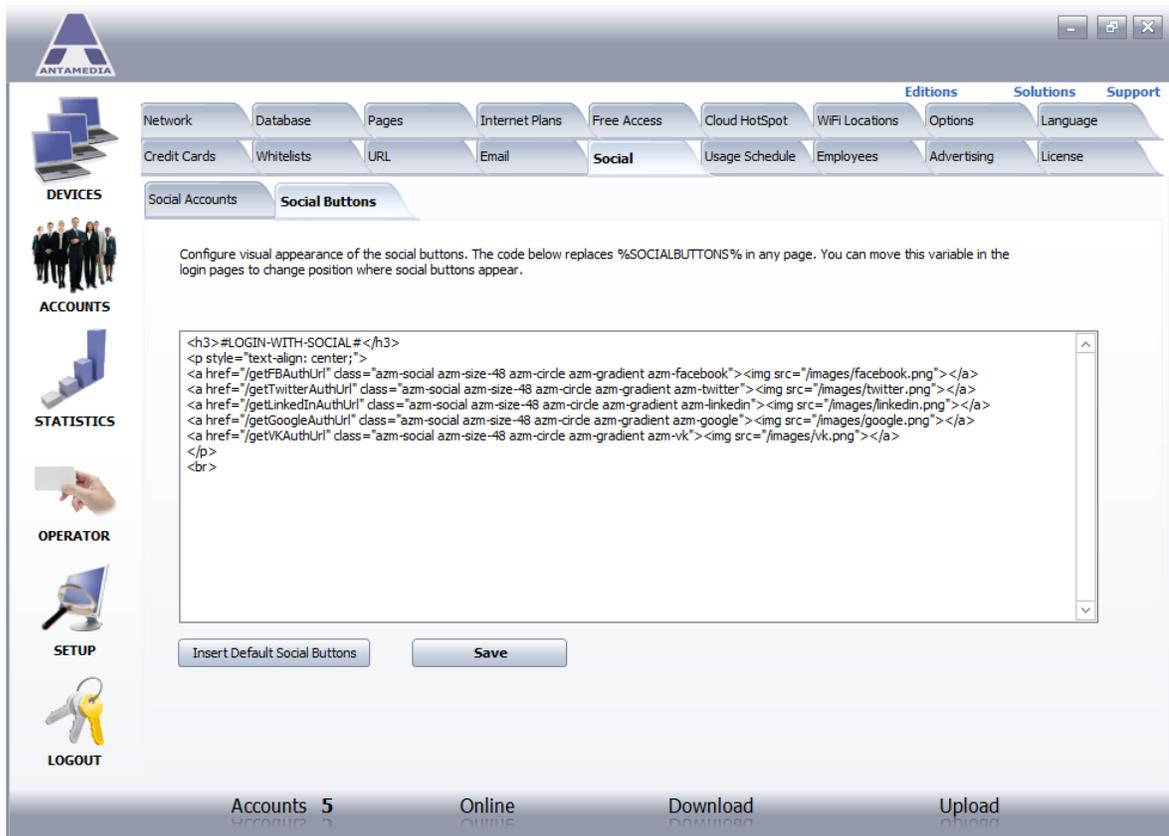
Supported networks are Facebook, LinkedIn Twitter, VK and Google+. To configure , please enter required information like API key and click Save.



21.2 Social Buttons

From HotSpot - Setup - Social - Social Buttons press on **Insert Default Social Buttons** to add all social media buttons.

If you don't use some of them and want to remove it from HotSpot pages, simple remove it from list and press on **Save** button.



The screenshot shows the Antamedia HotSpot Management interface. On the left is a navigation sidebar with icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area has a top navigation bar with tabs for Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, Language, Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, and License. Below this is a sub-navigation bar with 'Social Accounts' and 'Social Buttons' tabs. The 'Social Buttons' tab is active, displaying the following text:

Configure visual appearance of the social buttons. The code below replaces %SOCIALBUTTONS% in any page. You can move this variable in the login pages to change position where social buttons appear.

```
<h3>#LOGIN-WITH-SOCIAL#</h3>
<p style="text-align: center;">
<a href="/getFBAuthUrl" class="azm-social azm-size-48 azm-circle azm-gradient azm-facebook"></a>
<a href="/getTwitterAuthUrl" class="azm-social azm-size-48 azm-circle azm-gradient azm-twitter"></a>
<a href="/getLinkedInAuthUrl" class="azm-social azm-size-48 azm-circle azm-gradient azm-linkedin"></a>
<a href="/getGoogleAuthUrl" class="azm-social azm-size-48 azm-circle azm-gradient azm-google"></a>
<a href="/getVKAuthUrl" class="azm-social azm-size-48 azm-circle azm-gradient azm-vk"></a>
</p>
<br>
```

At the bottom of the configuration area are two buttons: 'Insert Default Social Buttons' and 'Save'. The footer of the interface shows 'Accounts 5', 'Online', 'Download', and 'Upload'.

21.3 Facebook API

Login on your FB account and go to [Facebook for developers](#) section

Press on **+ Add a New App**

Set **Display Name** and in **Category** select **Communication** then click on **Create App ID**

After **Security Check** you will be redirected to **+ Add Product** section

From list find **Facebook Login** and click on **Get Started**

In **Client OAuth Settings** set **Embedded Browser OAuth Login** to **Yes**

in **Valid OAuth redirect URIs** type http://127.0.0.1/redirect_fb and http://GatewayLanIP/redirect_fb (for example http://192.168.9.1/redirect_fb)

click on **Save Changes**

From **Settings** panel enter details for **App domains** your website without <http://www>. and set unique **Namespace** which must have 6 letters minimum

In **Privacy Policy URL** type <http://www.antamedia.com/privacy/>

Click on **Save Changes**

Go to **App Review** section and set your application to be **Live** and available to the public

At **Dashboard** section is available **App ID** and **App Secret** which you will enter in the HotSpot.

21.4 Twitter API

Login on your Twitter account and go to Twitter [Application Management](#)

Press on **Create New App**

Set basic details:

Name, Description, Website <http://GatewayLanIP> (for example <http://192.168.9.1>) and **Callback URL**

http://GatewayLanIP/redirect_twitter (for example http://192.168.9.1/redirect_twitter)

Accept Developer Agreement and press on **Create your Twitter application**

Go to **Settings** panel

In **Privacy Policy URL** and **Terms of Service URL** add <http://GatewayLanIP/privacy> (for example <http://192.168.9.1/privacy>)

add **Organization name** and **Organization website** and press on **Update Settings**

Go to **Permissions** panel and select option "**Request email addresses from users**" and press on **Update Settings**

From **Keys and Access Tokens** section and find your **Consumer Key** and **Consumer Secret** which you will enter in the HotSpot.

21.5 VK API

Login on your VK account and go to [VK Developers](#) section

Press on **Create an Application**

It is necessary to set your site (URL address in format **http://example.com**) and domainn (**example.com**)

It is required to complete authorization of application with sending free SMS to your phone.

Application will be created after confirmation is finished.

Go to **Settings** and confirm that your application is set as **Visible to all**

In **base domain** add <http://127.0.0.1> and <http://GatewayLanIP> (for example <http://192.168.9.1>)

In **authorized redirect URL** add http://127.0.0.1/redis_vk and http://GatewayLanIP/redis_vk (for example http://192.168.9.1/redis_vk) and press on Save

Go to **Settings** page and see **Application ID** and **Secure key** which you will enter in the HotSpot.

21.6 LinkedIn API

Login on your LinkedIn account and go to [LinkedIn Developers](#) section

Press on **Create Application**

Set **Company Name**, **Name** for your application, short **Description**, **Application Logo**

From **Application Use** select **Communications**

In **Website URL** field add your site URL address (for example <http://YourSite.com>)

Set **Business Email**, **Business Phone** and select option **I have read and agree to the LinkedIn API Terms of Use**.

Click on **Submit** to create application.

Be sure that **r_basicprofile** and **r_emailaddress** is selected and click on **Update**

Go to **OAuth 2.0**

type http://127.0.0.1/redis_linkedin click on **Add**

then type http://GatewayLanIP/redis_linkedin (for example http://192.168.9.1/redis_linkedin) and click on **Add** and **Update**

Go to **Settings** and from **Application Status** select **Live** and click on **Update**

From **Authentication** section is visible **Client ID** and **Client Secret** which you will enter in the HotSpot.

21.7 Google +

Login on your Google + account and go to to [Google API manager](#).

From **Dashboard** panel **Enable API**

In list find **Social APIs** and click on **Google+ API**

Go to **Credentials** panel and from **Create credentials** select **OAuth client ID**

Choose **Web application** as application type and set **Name**

In **Authorized Javascript origins** field enter local host IP <http://127.0.0.1>, <http://GatewayLanIP> (for example <http://192.168.9.1>) and <http://antamediadev.com>

In **Authorized redirect URLs** field enter http://antamediadev.com/redis_google, http://127.0.0.1/redis_google and http://GatewayLanIP.nip.io/redis_google (for example http://192.168.9.1.nip.io/redis_google)

Press on **Create** button.

In new window you will see **Client ID** and **Client Secret** which you will enter in the HotSpot.

22 E-mail Notifications

22.1 Email Setup

Email notification option is used to send Email messages to the customers to remind them about account expiration, to send payment receipt or a newsletter, and other purposes. Before you can start sending messages, please define mail server settings.

Enable Email notification to activate the option.

From **Select SMTP provider** you can select SendGrid or Configurable.

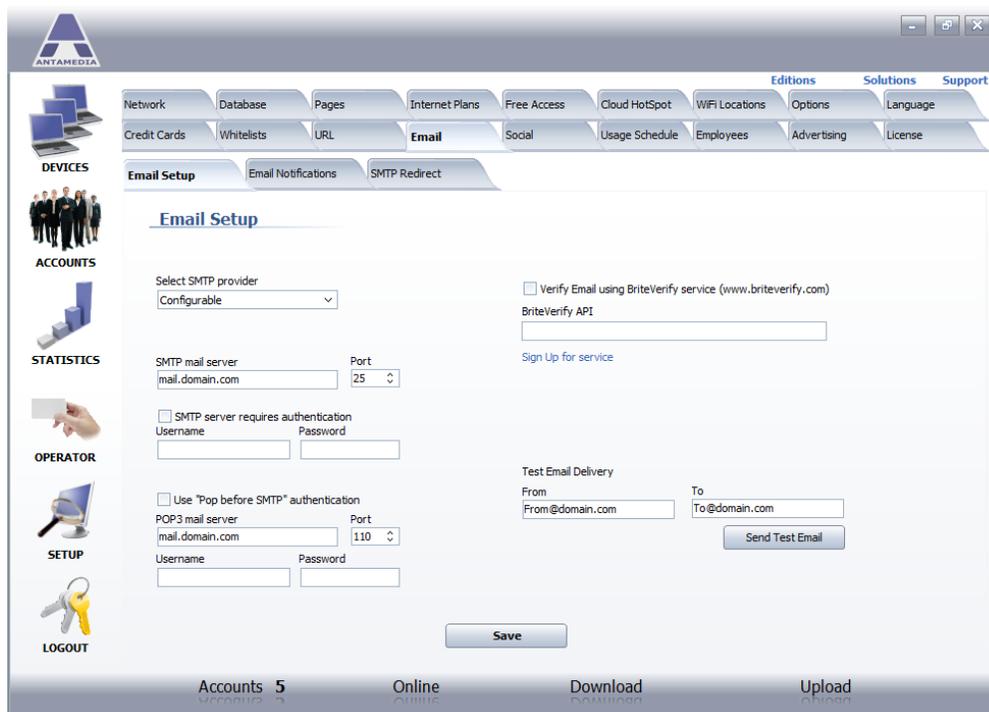
If you choose **SendGrid**, enter your SendGrid Username and Password.

If you choose **Configurable** use your ISP SMTP, specify mail server and port required for communication. If your SMTP server requires authentication, please enable **SMTP server require authentication** option and type the username and password. Some SMTP servers might also require **POP before SMTP** authentication. In this case you need to specify POP3 mail server, the used port (default 110) and the account username and the password.

If you require Email verification, you can set and configure it using BriteVerify service.

Sign Up for their service, select option **Verify Email using BriteVerify service** and enter **BriteVerify API**.

To test Email delivery, please enter Emails in **from** and **to** fields and click **Send Test Email** button. If you get a test Email, everything is properly configured. When you finish, please click **Save** button.



The screenshot shows the 'Email Setup' configuration page in the Antamedia HotSpot management interface. The page includes a navigation menu at the top with categories like Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options, Language, Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, and License. The 'Email' category is selected. On the left sidebar, there are icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area is titled 'Email Setup' and contains the following fields and options:

- Select SMTP provider:** A dropdown menu with 'Configurable' selected.
- SMTP mail server:** A text input field containing 'mail.domain.com'.
- Port:** A dropdown menu with '25' selected.
- SMTP server requires authentication**
 - Username:** An empty text input field.
 - Password:** An empty text input field.
- Use "Pop before SMTP" authentication**
 - POP3 mail server:** A text input field containing 'mail.domain.com'.
 - Port:** A dropdown menu with '110' selected.
 - Username:** An empty text input field.
 - Password:** An empty text input field.
- Verify Email using BriteVerify service (www.briteverify.com)**
 - BriteVerify API:** An empty text input field.
 - [Sign Up for service](#)
- Test Email Delivery:**
 - From:** A text input field containing 'From@domain.com'.
 - To:** A text input field containing 'To@domain.com'.
 - Send Test Email** button.

At the bottom of the page, there is a **Save** button and a status bar showing 'Accounts 5', 'Online 0/110', 'Download 0/110', and 'Upload 0/110'.

22.2 Notifications

To keep your customers informed about their account expiration, you can **Automatically send Email** and remind your customer that it is a time to refill the account. Email notification can be sent to the customer when the following conditions are met:

Account expires in less than _ days Example: if you set 5 days and account expires at June 25th, Email notification will be sent to the customer at June 20th.

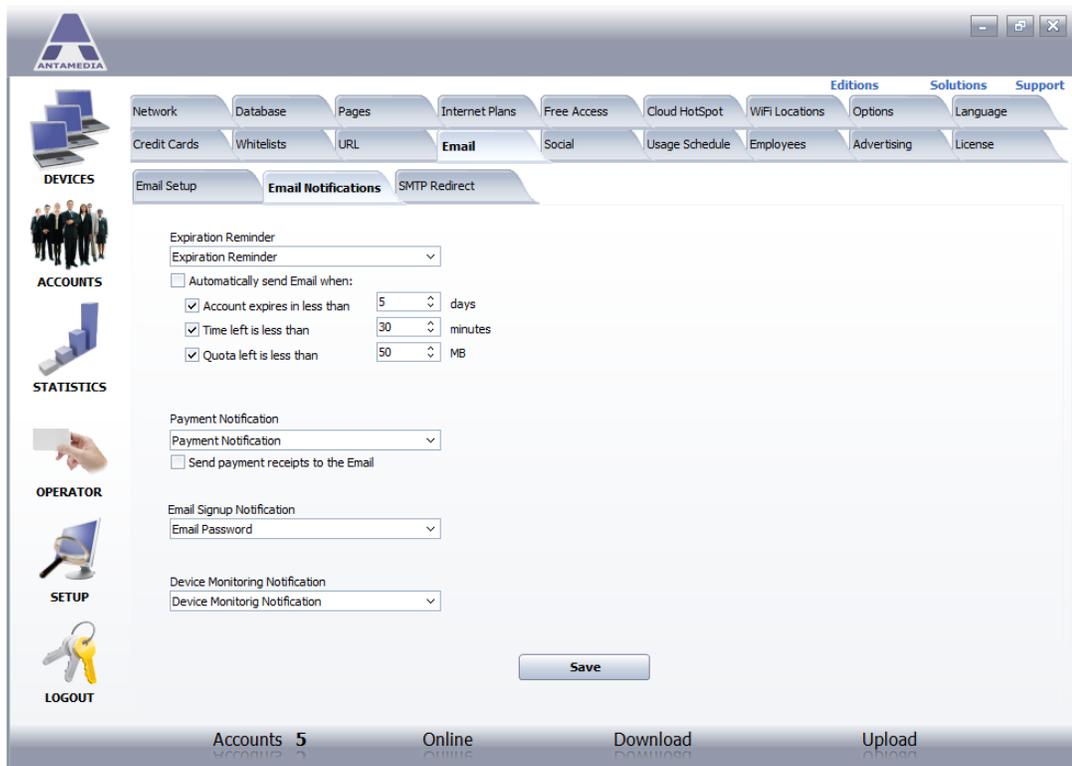
Time left is less than _ minutes Example: if you set 30 minutes, Email notification will be sent to the customer 29 minutes before the account expire

Quota left is less than _ MB Example: If you set 50 MB, Email notification will be sent to the customer when bandwidth quota is 49 MB

These values are checked only on account login.

Email template specifies which message template will be used to prepare Email for the customer.

When customer make payment for your services using a credit card, receipt can be sent automatically to an Email address provided by your customer. If you like to use this option, please enable **Send payment receipts on Email** and in **Email templates** field choose a template that will be sent to the customers Email.



22.3 SMTP Redirect

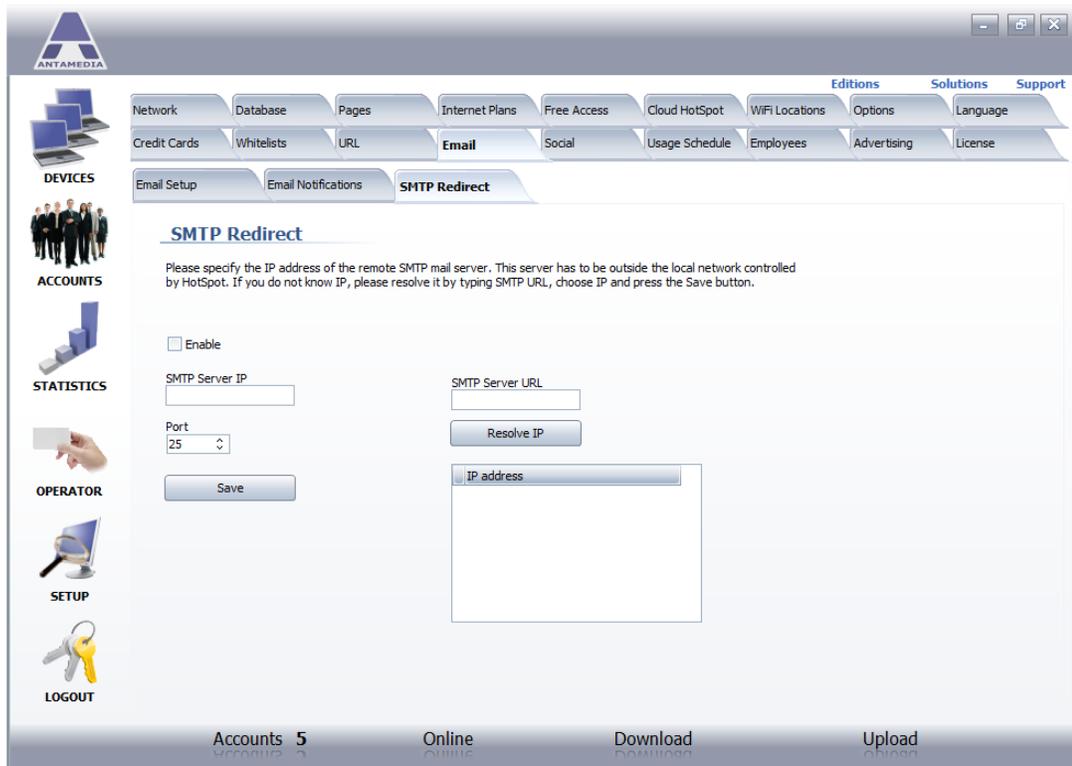
Internet service providers sometimes blocks SMTP port (25) in order to stop abuse. If you are using such Internet service provider, your customers will not be able to send Email when their Email configuration uses that port.

SMTP Roaming feature helps you to overcome this problem by redirecting all Email traffic to other SMTP server running on different port. The entire process is transparent for the customer and no changes are required in customer Email settings.

For example, a customer uses mail.companydomain.com on default port 25 when working from the company office. When a customer connects to your HotSpot where ISP blocks port 25, it will not be possible to send an Email although all the settings are the same in customer Email client software (Outlook, The Bat ...).

The solution is to redirect all traffic for the port 25 to a different SMTP server and port. Although a customer does not see any changes and may think that Email was sent through the company server, an Email will be sent through your SMTP server.

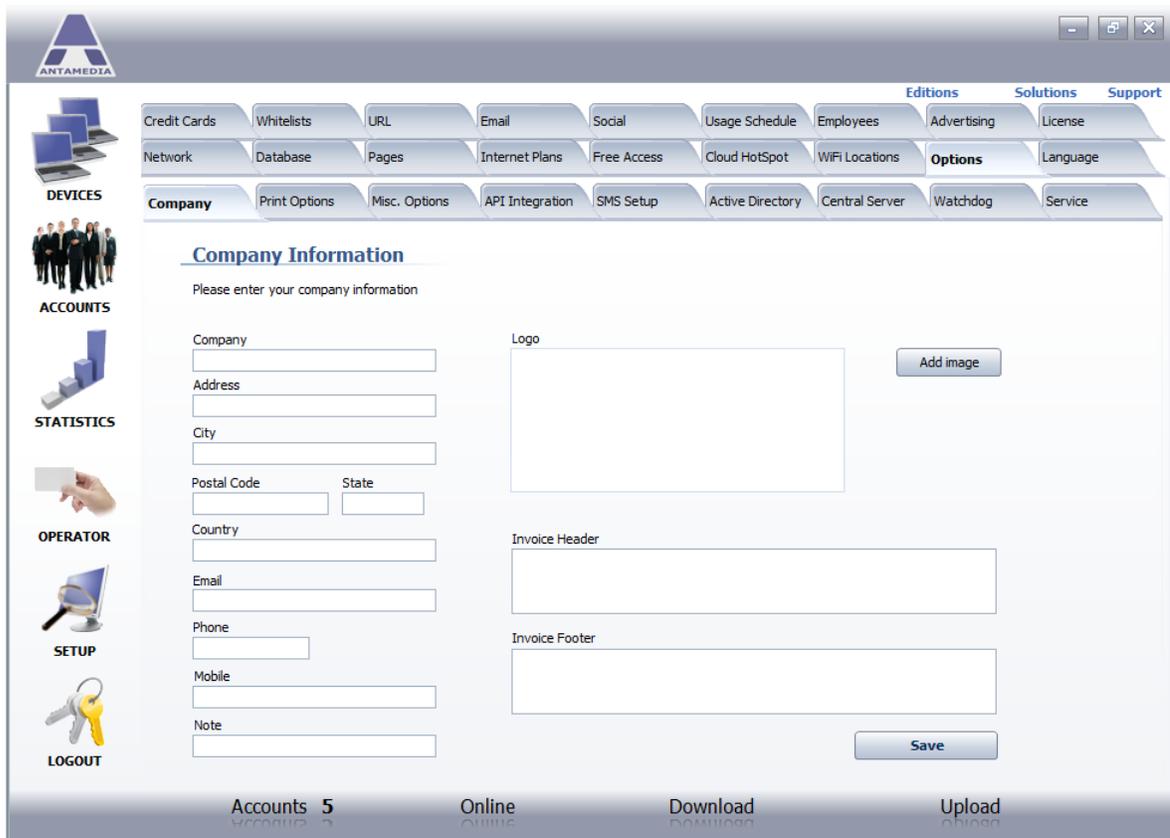
To activate SMTP roaming, please **Enable** it and type **SMTP Server IP** and **Port** where to redirect Emails. If you do not know IP address, please type **SMTP Server URL** address and press **Resolve IP** button. You can click on the correct IP address to transfer it to SMTP Server IP field. When you finish, please press **Save** button.



23 Options

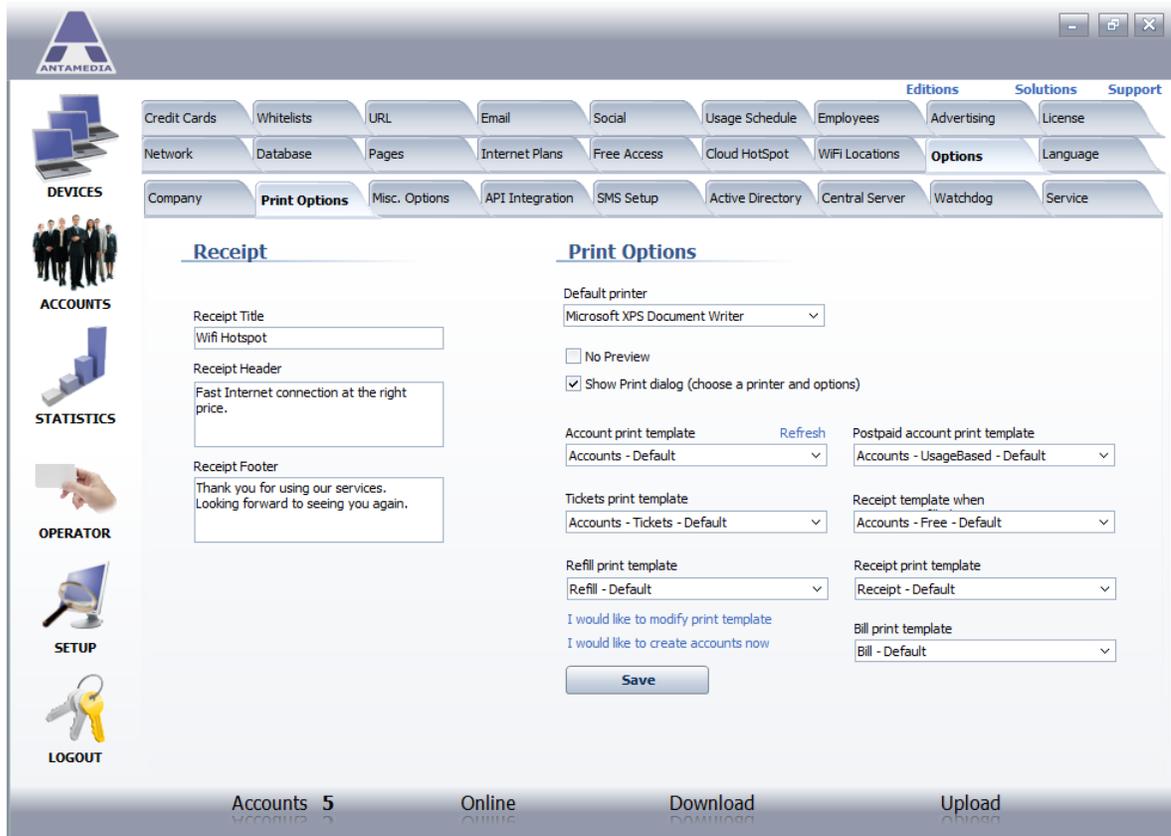
23.1 Company Info

Please go to HotSpot - Setup - Options - Company page to specify various details about your company, such as company name, address, email, logo image etc. These details will appear on invoices you send to postpaid customers. There you can also define header and footer text for these invoices.



23.2 Receipt Printing

Please configure print templates in HotSpot - Setup - Options - Print options page.



If you do not want to see a preview before printing, which is suitable once you configure print templates, please select **No Preview**.

To print directly to the default printer, without showing print dialog, please disable **Show Print dialog** option.

Antamedia HotSpot offers different templates for account, refill and receipt printing.

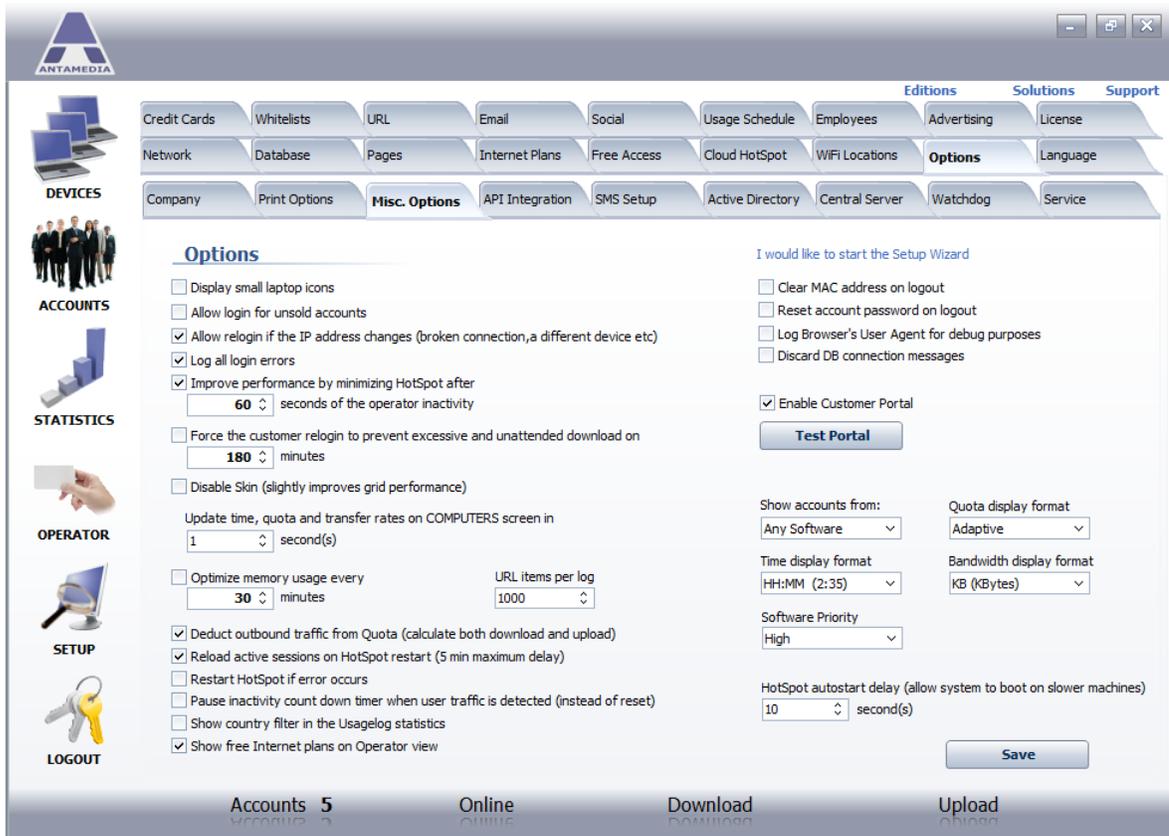
From the same place you can modify receipt title, header and footer text

Depending on receipt template, this text will appear on printed receipt which you give out to the customer.

23.3 Miscellaneous Options

Display small laptop icons	Defines the size of laptop icons in the main server screen
Allow login for unsold accounts	All the accounts will be able to login even if an operator have not sold them
Allow relogin if IP address changes	Allow a customer to login again if the account is already in use. The previous session will be logged out and a customer asked to login again (it can help when the connection is not stable and a customer is trying to connect while getting different IP addresses)
Log all login errors	Store all HotSpot messages (information, warnings etc) in a log file
Improve performance by minimizing HotSpot	Minimize HotSpot software after the specified time period of inactivity to get better performance. This feature is enabled by default and we recommend leaving it enabled
Force the customer relogin to prevent excessive and unattended download	HotSpot will stop Internet service for customer after specified time interval and force her to login again. This feature can be used to prevent downloading of large files and excessive bandwidth usage.
Disable Skin	Skinned interface can be disabled in some parts of software in order to improve performance and response time.
Update time, quota and transfer rates on Computers screen	HotSpot performance is slightly improved by configuring higher value in this field. Default value i 1 second.
Optimize memory usage every	Select time interval after which memory usage will be optimized
Deduct Outbound traffic from Quota	Choose whether Hotspot will count both download and upload when deducting quota from user account
Reload active sessions on Hotspot restart	If this option is enabled, Hotspot restart will not interrupt user session with new login request
Restart Hotspot if error occurs	Hotspot will restart itself in case of unexpected error, so it can continue normal operation
Pause inactivity count down timer when user traffic is detected	This option will pause inactivity countdown without resetting it to default number of seconds
Show country filter in the UsageLog statistics	Beside other informations, Country will be also available in Logs
Show free Internet plans on Operator view	

Clear MAC address on logout	MAC address will be cleared from account properties in HotSpot when user logs out.
Reset account password on logout	Set new random password for user's account on each logout
Log Browser's User Agent for debug purposes	Type and language of customer's browser is logged each time she logs in to HotSpot. This data can be analyzed on HotSpot - Statistics - Log page.
Discard DB Connection Messages	Select this option to discard warning messages related to DB connecting to HotSpot
Enable Customer Portal	Set this option to allow Customer Portal from Welcome page
Show accounts from	Show the accounts from other Antamedia software (Internet Cafe software, HotSpot, Bandwidth Manager)
Time display format	Choose format which is used to display time HH:MM (2:35), Hh:Mm (2h 35m), Hh:Mmin (2h 35min), M m (155m), M min (155 min)
Quota display format	Choose quota format between bytes, KB, MB, GB, TB, PB, or adaptive which automatically displays the correct format depending on value
Bandwidth display format	Choose the display format of download and upload rate KB (KBytes), Kb (Kbits), MB (MBytes), Mb (Mbits)
Software priority	Select software priority
HotSpot Autostart delay (allow system to boot on slower machines)	With enabling of this option slower computers have enough time to boot properly before software is started



Options

Display small laptop icons

Allow login for unsold accounts

Allow relogin if the IP address changes (broken connection, a different device etc)

Log all login errors

Improve performance by minimizing HotSpot after seconds of the operator inactivity

Force the customer relogin to prevent excessive and unattended download on minutes

Disable Skin (slightly improves grid performance)

Update time, quota and transfer rates on COMPUTERS screen in second(s)

Optimize memory usage every minutes

URL items per log

Deduct outbound traffic from Quota (calculate both download and upload)

Reload active sessions on HotSpot restart (5 min maximum delay)

Restart HotSpot if error occurs

Pause inactivity count down timer when user traffic is detected (instead of reset)

Show country filter in the Usalog statistics

Show free Internet plans on Operator view

Clear MAC address on logout

Reset account password on logout

Log Browser's User Agent for debug purposes

Discard DB connection messages

Enable Customer Portal

Test Portal

Show accounts from:

Quota display format:

Time display format:

Bandwidth display format:

Software Priority:

HotSpot autostart delay (allow system to boot on slower machines) second(s)

Save

Accounts **5** Online Download Upload

23.4 API Integration

Antamedia HotSpot can be easily integrated with the third-party software. This feature is located in HotSpot - Setup - Options - API Integration page.

Integration is done using **HTTP GET** query and **XML response** which offer very short integration time.

To put it simply, it works this way:

1. Your software should send a formatted query similar to URL you type in browser to see certain web page
2. Our software gets this query, parse it and execute the actions (example: generate accounts)
3. Our software generate XML response with details (example: account details) and return it to your software
4. Your software parse XML and process the data (example: use account details to print receipt)

To activate this feature please **Enable Integration**, specify **port** (82 by default), and **Secret PassPhrase**. Purpose of the PassPhrase is to protect from unauthorized usage while allowing you to use integration commands from different IP addresses. For example, multiple instances of your program can communicate with HotSpot and generate accounts.

For the purpose of this manual, we will take 192.168.0.1 as HotSpot IP address, port 82 and PASS as PassPhrase. These are integration examples:

`http://192.168.0.1/generateaccounts?number=5&priceplan=1&pass=PASS`

This command will generate 5 accounts and assign price plan 1 to those accounts. You can put a button in your software and send such command after user click on it. XML response contains all account data, like username, password, time, quota, expiration.

`http://192.168.0.1/generateaccounts?number=3&priceplan=2&print=1&preview=0&pass=PASS`

This command will generate 3 accounts, assign them price plan 2 and print the accounts in HotSpot software without print preview. If you intend to handle printing from your software, printing is not needed.

`http://192.168.0.1/generateaccounts?account=TEST&pass=PASS`

This command will generate one account with username TEST. It is suitable in cases when you always generate unique accounts, like personal ID number from ID card. The account will not be generated if such an account already exists.

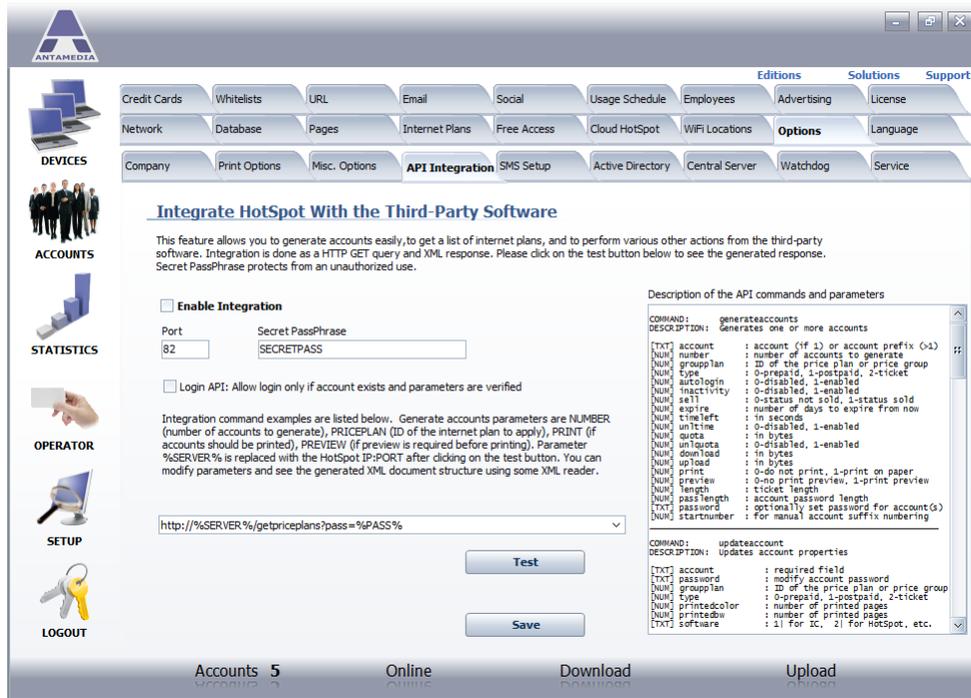
`http://192.168.0.1/getpriceplans?pass=PASS`

This command is used to retrieve all price plans from HotSpot software. XML response will contain price plan description, cost, time and quota values, expiration etc. You can use these details to store them in your controls (like Listbox, Combobox) and allow a customer to choose a price plan before you send command to generate the accounts.

`http://192.168.0.1/deleteaccount?account=TEST&pass=PASS`

This command will delete the account TEST from the HotSpot software.

The time is displayed in seconds, Quota, Download, Upload are in bytes. Other fields with 0 and 1 represent false and true. If you have a specific integration requirements, please contact Antamedia.



API XML response example for generated accounts looks like:

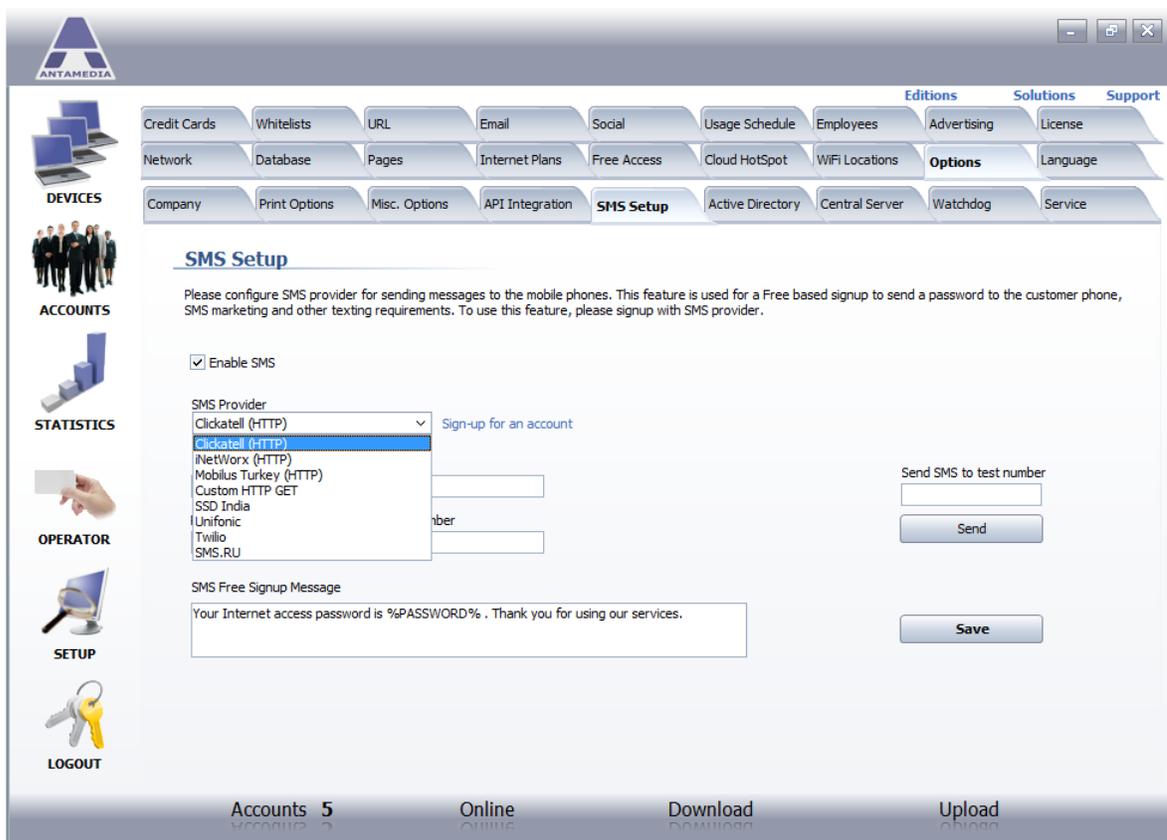
```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE Accounts (View Source for full doctype...)>
<Accounts>
<Account>
<Username>TEST15</Username>
<Password>FD61U</Password>
<TimeUsed>0</TimeUsed>
<TimeLeft>3600</TimeLeft>
<UnlimitedTime>False</UnlimitedTime>
<Quota>0</Quota>
<UnlimitedQuota>True</UnlimitedQuota>
<GroupPlanID>2</GroupPlanID>
<AccessFromTo>False</AccessFromTo>
<AccessID>1</AccessID>
<ExpireIn>1</ExpireIn>
<ExpireAfter>1</ExpireAfter>
<EnableDailyTime>False</EnableDailyTime>
<DailyTime>0</DailyTime>
<EnableDailyQuota>False</EnableDailyQuota>
<DailyQuota>0</DailyQuota>
<EnableDailyLogins />
<DailyLogins />
<Download>131072</Download>
<Upload>65536</Upload>
```

```
<GenerateID>15</GenerateID>  
</Account>  
</Accounts>
```

23.5 SMS Provider Setup

Antamedia Hotspot allows you to send messages to mobile phones. This feature is used for a Free based signup in order to send a password to the customer phone, SMS marketing and other texting requirements. Before this feature can be used, you need to sign up for SMS provider account, Hotspot currently supports **Clickatell**, **iNetWorx**, **Mobilus Turkey**, **SSD India**, **Unifonic**, **Twilio**, **SMS.RU** and **Custom HTTP GET** providers. SMS settings are configured on HotSpot - Setup - Options - SMS Setup page.

To set up SMS messaging, please tick **Enable SMS** box, enter **Username**, **Password**, **From Number** and **API ID** tied to your account. You can also configure message that users will get after sign up for free account. When you finish, please press **Save** button.



Custom HTTP GET method can be used to integrate new SMS gateways that offers HTTP GET API. Integration is simple,

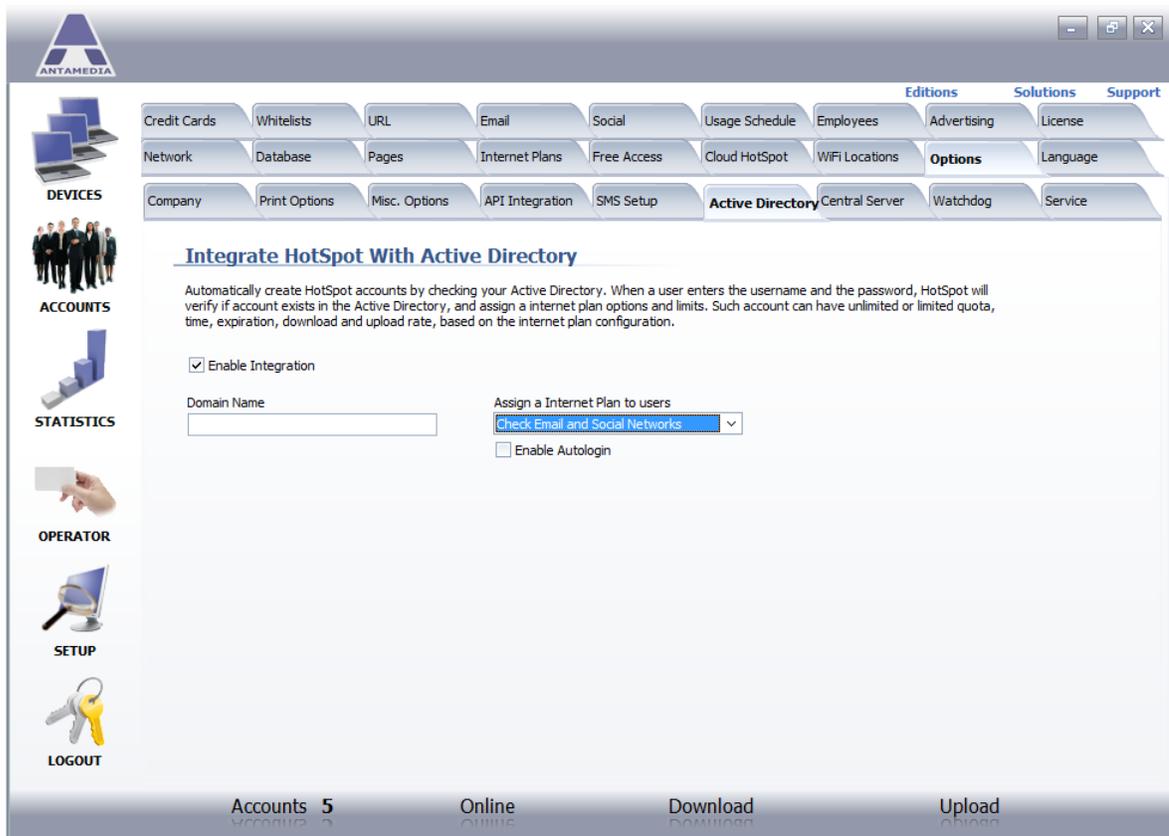
1. Copy their test example
2. replace number with %NUMBER% and message with %MESSAGE%. These variables will be replaced with a real number to which software will send SMS. %MESSAGE% is replaced with the message specified in above message box.
3. Configure other parameters if needed and test by sending SMS to your phone

`http://api.unifonic.com/wrapper/sendSMS.php?userid=test@domain.com&password=123456789&to=%NUMBER
&msg=%MESSAGE%&encoding=utf-8&sender=TESTNAME`

23.6 Active Directory Integration

Active Directory integration helps you automate the account management in your network. When a user enters the username and the password in HotSpot login page, HotSpot will verify if the account already exists in the Active Directory and generate HotSpot account using price plan options and limits you have specified. Such account can have unlimited or limited quota, time, expiration date, download and upload rate, based on the price plan configuration.

This feature is suitable for companies and organizations as it handles the manual work of the administrator and keeps passwords updated with the main AD system. The configuration of the feature is done from HotSpot - Setup - Options - Active Directory page: please type the domain name, select a price plan and optionally enable autologin. This option currently work only if HotSpot is used on computer were Active Directory is configured.



23.7 Central Server

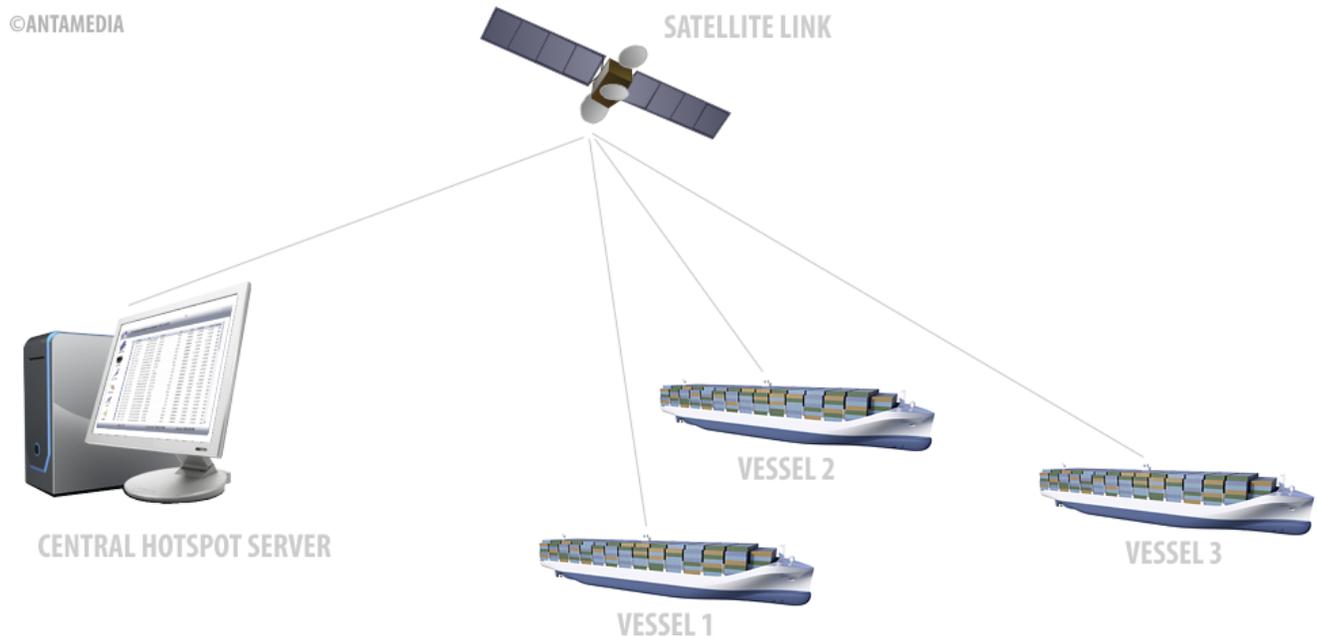
Antamedia HotSpot software is the industry leading HotSpot PC solution that implements centralized WiFi management over high latency systems. It helps controlling user WiFi Internet access on vessels, oil platforms, rural areas where Internet link may have periodic interruptions or high delays. This feature can be used to synchronize accounts between the HotSpot (that runs locally) with Central HotSpot Server Database.

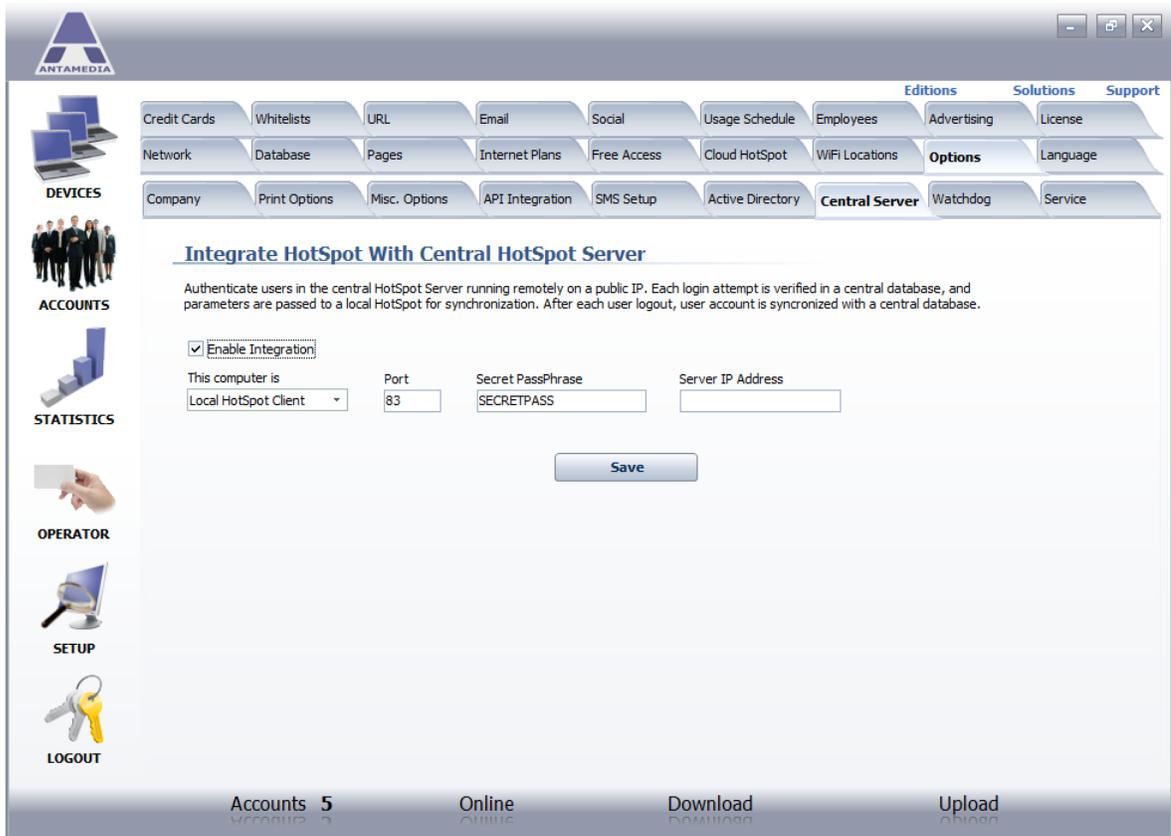
How does it work ?

It authenticates users in the Central Server running remotely on a public IP. Each login attempt is verified in a central database and parameters are passed to a local HotSpot for synchronization. After each user logout, user account is synchronized with a central database. Feature is especially useful for Satellite Internet companies serving ships or remote locations that needs central account management. Administrator can create and manage all accounts on a Central HotSpot Server. Requires Premium edition.

Account options that can be controlled are:

- Bandwidth Quota Management: Limits amount of data available to each customer
- Speed management: Limits download & upload for each user, with adjustable limits per user
- Controls multiple user devices with configurable number of devices for each user
- Controls time available for each user
- Uses Internet plans with configurable limits to create desired limits and apply them during new account creation
- Limits daily or monthly available bandwidth quota. Amounts are reset each day/month





The screenshot shows the Antamedia HotSpot Management Interface. At the top left is the Antamedia logo. Below it is a navigation menu with icons and labels for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area features a top navigation bar with tabs for various settings: Credit Cards, Whitelists, URL, Email, Social, Usage Schedule, Employees, Advertising, License, Network, Database, Pages, Internet Plans, Free Access, Cloud HotSpot, WiFi Locations, Options (highlighted), and Language. Below this is another row of tabs: Company, Print Options, Misc. Options, API Integration, SMS Setup, Active Directory, Central Server (highlighted), Watchdog, and Service. The main content area is titled "Integrate HotSpot With Central HotSpot Server" and contains a paragraph of text: "Authenticate users in the central HotSpot Server running remotely on a public IP. Each login attempt is verified in a central database, and parameters are passed to a local HotSpot for synchronization. After each user logout, user account is synchronized with a central database." Below the text is a form with a checked checkbox labeled "Enable Integration". The form includes four input fields: "This computer is" (a dropdown menu with "Local HotSpot Client" selected), "Port" (text input with "83"), "Secret PassPhrase" (text input with "SECRETPASS"), and "Server IP Address" (empty text input). A "Save" button is centered below the form. At the bottom of the interface, there is a status bar with four items: "Accounts 5", "Online 0", "Download 0", and "Upload 0".

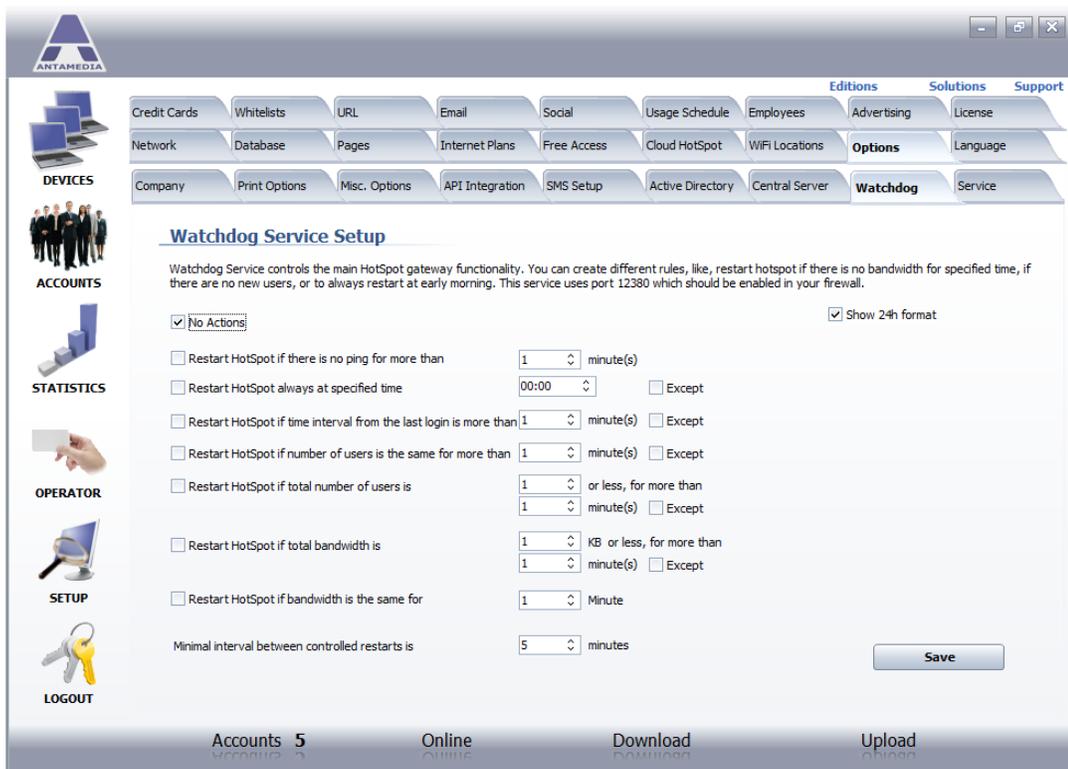
23.8 Watchdog Setup

The main purpose of Watchdog is to monitor HotSpot operation and react if a problem occurs (hardware problems, Windows hanging, viruses, hacking attempts etc.). HotSpot is constantly sending pings to Watchdog during normal operation. If there is interruption which lasts longer than predefined time period, Watchdog has the ability to restart HotSpot application.

You can create different rules, like restart Hotspot if there is no bandwidth for specified time, if there are no new users, or to always restart at desired time of the day. This service uses port 12380 which should be enabled in your firewall. Watchdog behavior is configured from HotSpot - Setup - Options - Watchdog Setup page.

We recommend to configure Watchdog to run as a service and leave Hotspot to run as a normal application. To do this,

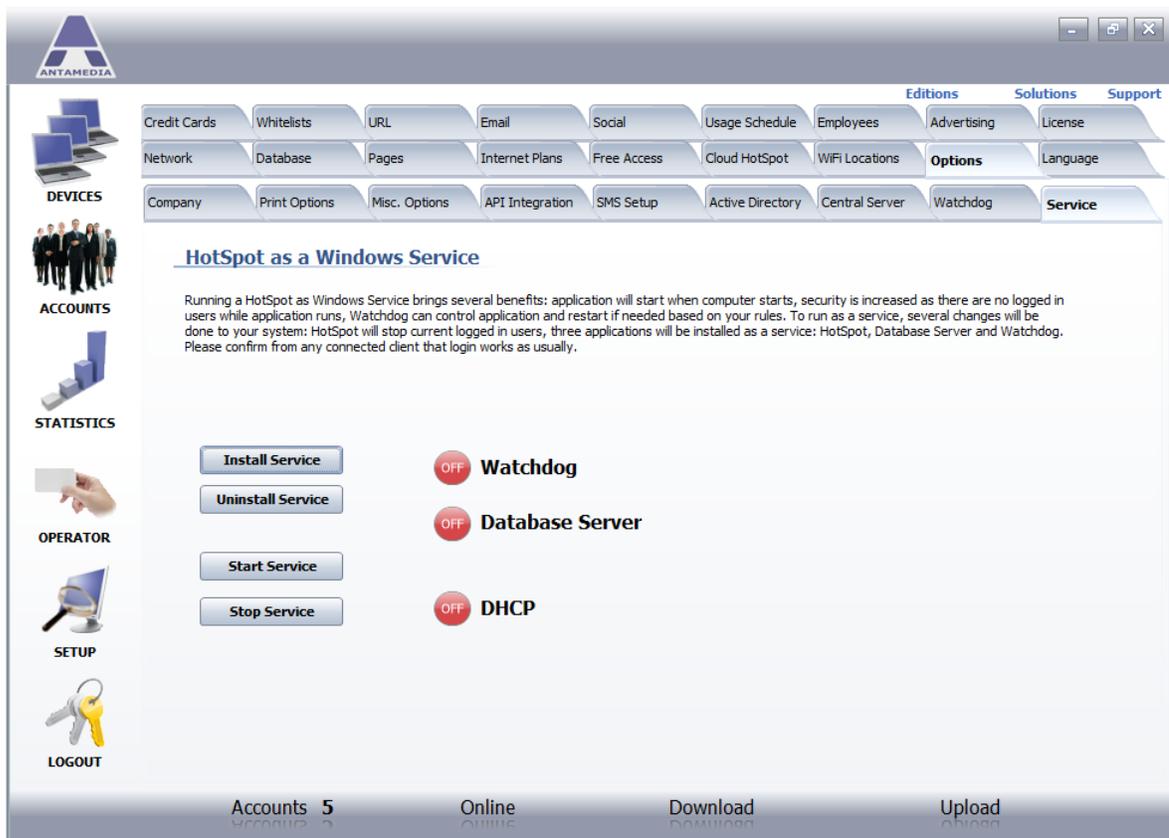
1. Run command prompt and go to C:\Antamedia\Hotspot folder
2. Type AWatchdog.exe -install and press enter key
3. Watchdog will be installed as a service and will start
4. Go to HotSpot - Setup - Options - Watchdog Setup page and configure desired options. Then Save and Connect



23.9 Windows Service

Antamedia HotSpot has the ability to run as Windows Service which brings several benefits: application will start when computer starts, security is increased as there are no logged in users while application runs, Watchdog can control application and restart it if needed based on your rules.

To run as a service, several changes will be done to your system: HotSpot will stop current logged in users and three applications will be installed as a service: HotSpot, Database Server and Watchdog. DHCP service will be installed if DHCP server option is enabled on HotSpot - Setup - Network - DHCP - DHCP Settings page. After you install and start Hotspot service, please confirm from any client device that login works as usually. When running as a service, additional HotSpot can be started on the same computer to manage hotspot and close afterward's. HotSpot will continue to work in the background.



24 Statistics

24.1 Dashboard

From Statistics **Dashboard** in single click you can get overview of all import statistic details like number of Total Accounts, Total Bandwidth, Total Time, Total Payment, Total Sessions, Average time and Average bandwidth.

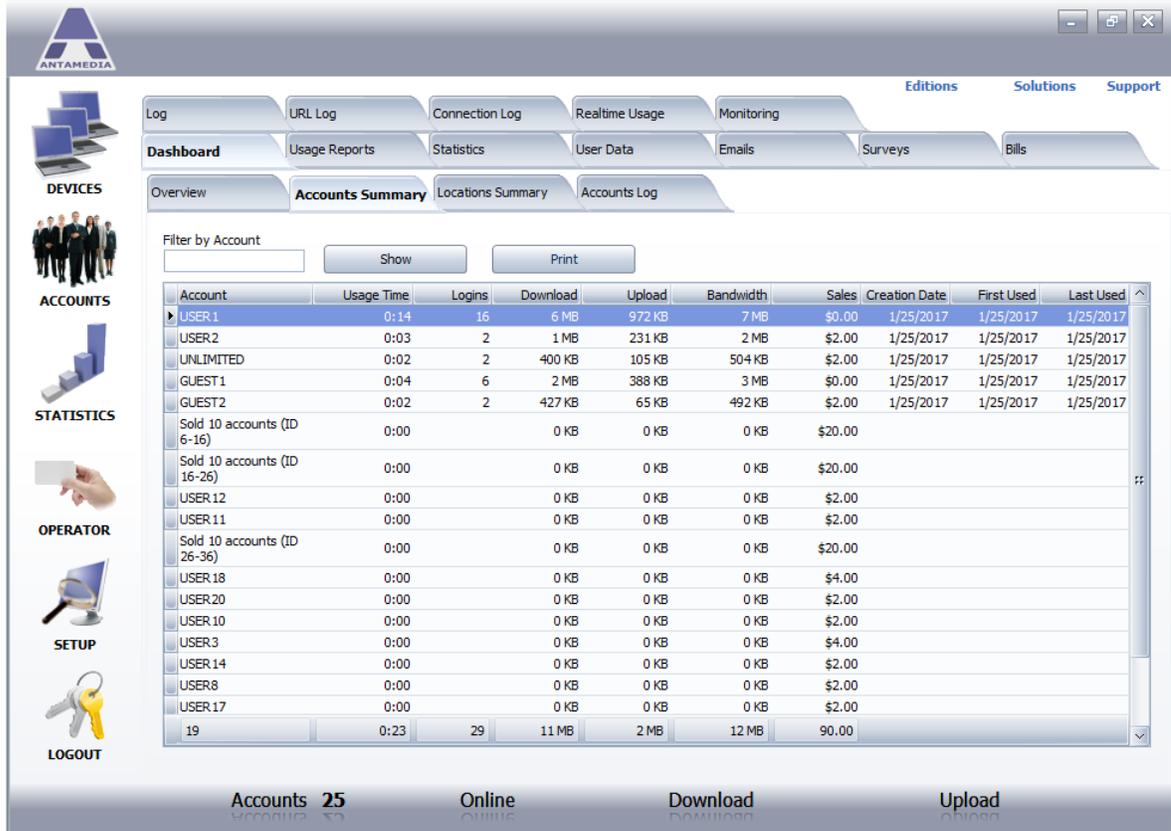
On same page diagrams show **Today Bandwidth**, **Today Usage Time**, **Current Week New Accounts**, **Current Week Logins** and **Current Week Sales**.



Accounts Summary provide preview of all account based database actions.

Press on **Show** button to load Summary and press on Print to get print preview of summary.

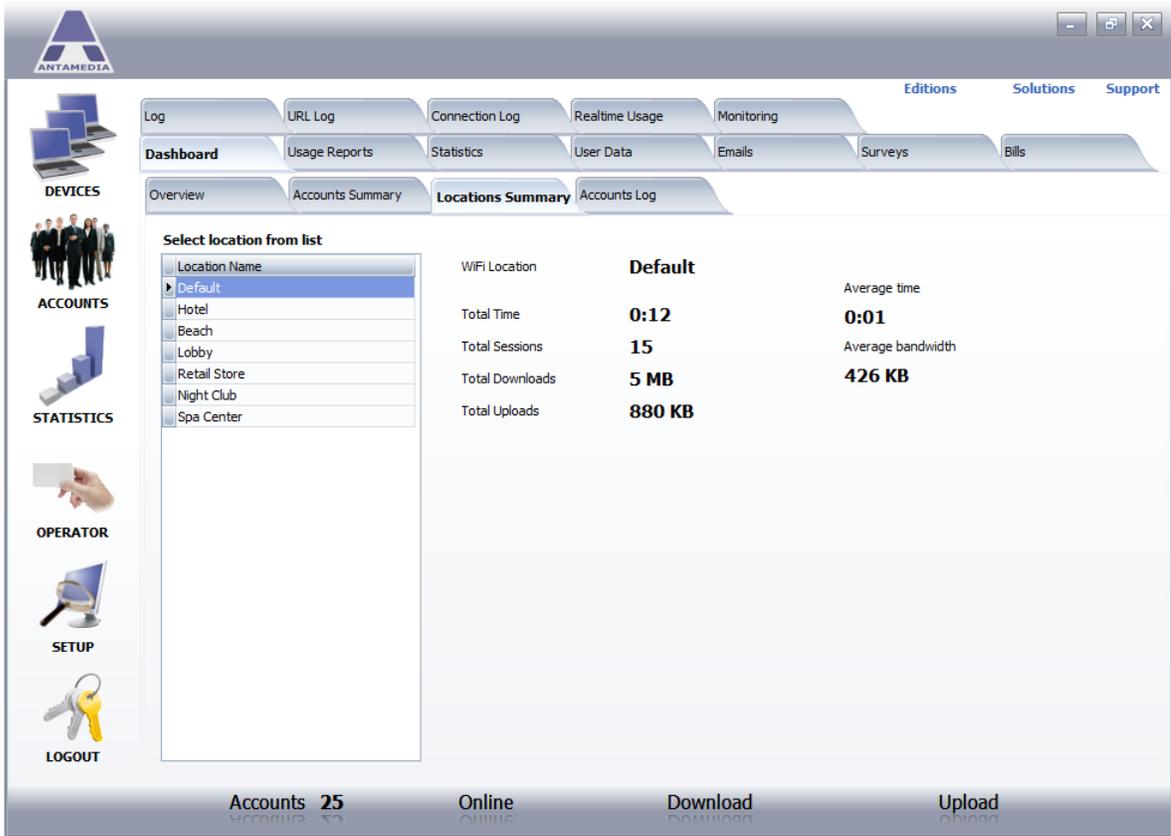
Summary provide information about Account/Action, Usage Time, Logins, Download, Upload, Bandwidth, Sales, Creation Date, First Used and Last Used



Account	Usage Time	Logins	Download	Upload	Bandwidth	Sales	Creation Date	First Used	Last Used
USER 1	0:14	16	6 MB	972 KB	7 MB	\$0.00	1/25/2017	1/25/2017	1/25/2017
USER 2	0:03	2	1 MB	231 KB	2 MB	\$2.00	1/25/2017	1/25/2017	1/25/2017
UNLIMITED	0:02	2	400 KB	105 KB	504 KB	\$2.00	1/25/2017	1/25/2017	1/25/2017
GUEST1	0:04	6	2 MB	388 KB	3 MB	\$0.00	1/25/2017	1/25/2017	1/25/2017
GUEST2	0:02	2	427 KB	65 KB	492 KB	\$2.00	1/25/2017	1/25/2017	1/25/2017
Sold 10 accounts (ID 6-16)	0:00		0 KB	0 KB	0 KB	\$20.00			
Sold 10 accounts (ID 16-26)	0:00		0 KB	0 KB	0 KB	\$20.00			
USER 12	0:00		0 KB	0 KB	0 KB	\$2.00			
USER 11	0:00		0 KB	0 KB	0 KB	\$2.00			
Sold 10 accounts (ID 26-36)	0:00		0 KB	0 KB	0 KB	\$20.00			
USER 18	0:00		0 KB	0 KB	0 KB	\$4.00			
USER 20	0:00		0 KB	0 KB	0 KB	\$2.00			
USER 10	0:00		0 KB	0 KB	0 KB	\$2.00			
USER 3	0:00		0 KB	0 KB	0 KB	\$4.00			
USER 14	0:00		0 KB	0 KB	0 KB	\$2.00			
USER 8	0:00		0 KB	0 KB	0 KB	\$2.00			
USER 17	0:00		0 KB	0 KB	0 KB	\$2.00			
19	0:23	29	11 MB	2 MB	12 MB	90.00			

Accounts 25 Online Download Upload

From **Location Summary** you have summary results that can be filtered based on WiFi Locations configuration. Summary contain information based on WiFi location, Total Time, Total Sessions, Total Downloads, Total Uploads, Average time and Average bandwidth.



The screenshot displays the Antamedia HotSpot Management Interface. The main content area shows the 'Locations Summary' for the 'Default' location. A sidebar on the left contains navigation icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The top navigation bar includes options like Log, URL Log, Connection Log, Realtime Usage, Monitoring, Usage Reports, Statistics, User Data, Emails, Surveys, and Bills. The 'Locations Summary' section shows a list of location names and a summary table for the selected 'Default' location.

Location Name	WiFi Location	Default	Average time
Default	Total Time	0:12	0:01
Hotel	Total Sessions	15	Average bandwidth
Beach	Total Downloads	5 MB	426 KB
Lobby	Total Uploads	880 KB	
Retail Store			
Night Club			
Spa Center			

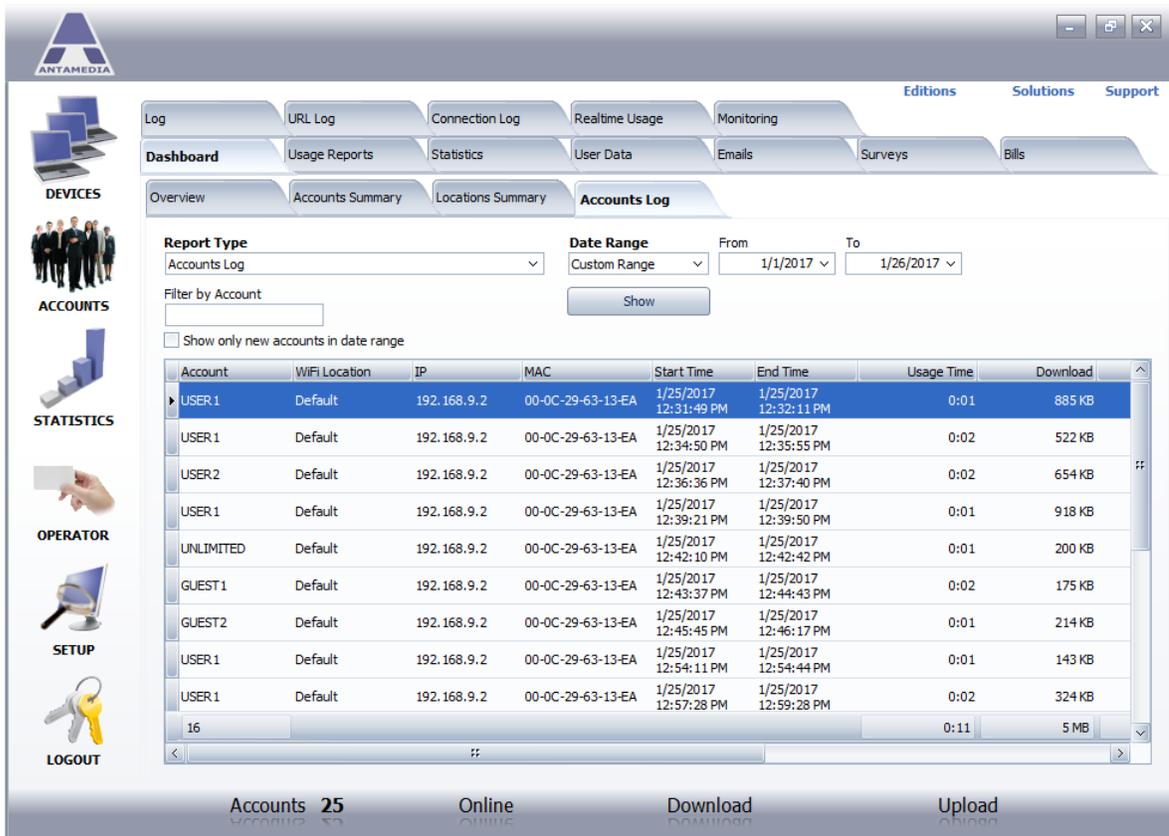
At the bottom of the interface, there are summary statistics: Accounts 25, Online, Download, and Upload.

Accounts Log give informations and reports regarding all Accounts actions and activity.

To display report for specified time period, please select the starting and the ending date in the **From** and **To** fields, or choose one of the predefined time periods (Today, Yesterday, Last 7 days etc.), and press **Show** button. You can **Filter By Account** or **Show only new accounts in date range**.

From **Report type** select between available views: Accounts Log, Top accounts by total bandwidth, Top accounts by time usage, Top accounts by sales and Top accounts by number of sessions

Report details are: Account/ Action, WiFi Location, IP, MAC, Start time, End time, Usage time, Download, Upload, Total Bandwidth, Logins, OS and Sales



The screenshot shows the 'Accounts Log' interface in the Antamedia HotSpot management system. The interface includes a navigation menu on the left with categories like DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area is titled 'Accounts Log' and features a 'Report Type' dropdown set to 'Accounts Log'. The 'Date Range' is set to 'Custom Range' with 'From' and 'To' dates of 1/1/2017 and 1/26/2017 respectively. A 'Filter by Account' field is present, along with a 'Show' button and a checkbox for 'Show only new accounts in date range'. Below these controls is a table with the following columns: Account, WiFi Location, IP, MAC, Start Time, End Time, Usage Time, and Download. The table contains 16 rows of data, with the first row highlighted in blue. At the bottom of the interface, there are summary statistics: Accounts 25, Online 0/1116, Download 0/1116, and Upload 0/1116.

Account	WiFi Location	IP	MAC	Start Time	End Time	Usage Time	Download
USER1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:31:49 PM	1/25/2017 12:32:11 PM	0:01	885 KB
USER1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:34:50 PM	1/25/2017 12:35:55 PM	0:02	522 KB
USER2	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:36:36 PM	1/25/2017 12:37:40 PM	0:02	654 KB
USER1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:39:21 PM	1/25/2017 12:39:50 PM	0:01	918 KB
UNLIMITED	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:42:10 PM	1/25/2017 12:42:42 PM	0:01	200 KB
GUEST1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:43:37 PM	1/25/2017 12:44:43 PM	0:02	175 KB
GUEST2	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:45:45 PM	1/25/2017 12:46:17 PM	0:01	214 KB
USER1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:54:11 PM	1/25/2017 12:54:44 PM	0:01	143 KB
USER1	Default	192.168.9.2	00-0C-29-63-13-EA	1/25/2017 12:57:28 PM	1/25/2017 12:59:28 PM	0:02	324 KB
16						0:11	5 MB

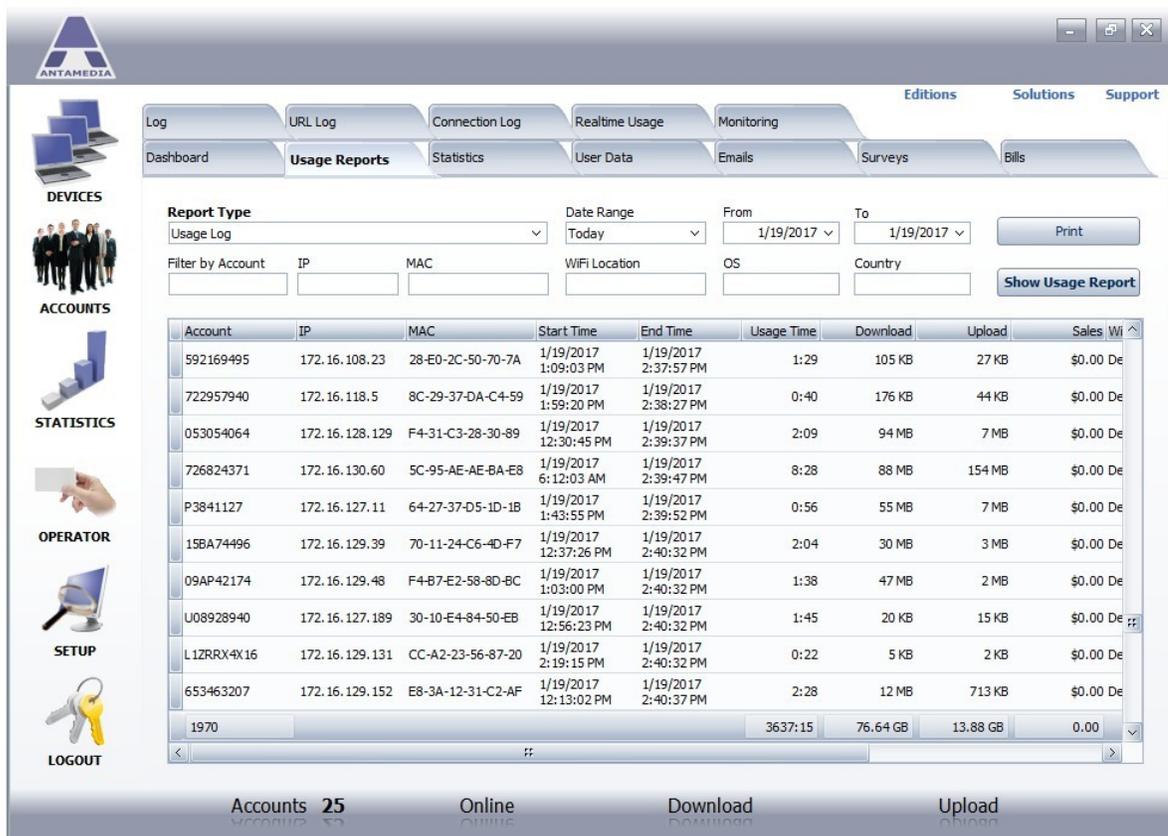
24.2 Usage Reports

Usage report is a session based report which precisely shows **who, when** and **how much** has used your HotSpot services.

Report details are: Account/ Action, WiFi Location, IP, MAC, Start time, End time, Usage time, Download, Upload, Total Bandwidth, Logins, OS and Sales

To display usage report for specified time period, please select the starting and the ending date in the **From** and **To** fields, or choose one of the predefined time periods (Today, Yesterday, Last 7 days etc.), and press **Show Usage Report** button. You can filter such report for a specified account, IP or MAC address.

From **Report type** are offered: **Usage Log** (shows all sessions and its details), **Summary per Account** (get totals for selected account), **Summary per MAC** (get totals for the selected MAC address) and **Summary per IP address** (get totals for the selected IP address)



Account	IP	MAC	Start Time	End Time	Usage Time	Download	Upload	Sales	Wi
592169495	172.16.108.23	28-E0-2C-50-70-7A	1/19/2017 1:09:03 PM	1/19/2017 2:37:57 PM	1:29	105 KB	27 KB	\$0.00	De
722957940	172.16.118.5	8C-29-37-DA-C4-59	1/19/2017 1:59:20 PM	1/19/2017 2:38:27 PM	0:40	176 KB	44 KB	\$0.00	De
053054064	172.16.128.129	F4-31-C3-28-30-89	1/19/2017 12:30:45 PM	1/19/2017 2:39:37 PM	2:09	94 MB	7 MB	\$0.00	De
726824371	172.16.130.60	5C-95-AE-AE-BA-E8	1/19/2017 6:12:03 AM	1/19/2017 2:39:47 PM	8:28	88 MB	154 MB	\$0.00	De
P3841127	172.16.127.11	64-27-37-D5-1D-1B	1/19/2017 1:43:55 PM	1/19/2017 2:39:52 PM	0:56	55 MB	7 MB	\$0.00	De
15BA74496	172.16.129.39	70-11-24-C6-4D-F7	1/19/2017 12:37:26 PM	1/19/2017 2:40:32 PM	2:04	30 MB	3 MB	\$0.00	De
09AP42174	172.16.129.48	F4-B7-E2-58-8D-BC	1/19/2017 1:03:00 PM	1/19/2017 2:40:32 PM	1:38	47 MB	2 MB	\$0.00	De
U08928940	172.16.127.189	30-10-E4-84-50-EB	1/19/2017 12:56:23 PM	1/19/2017 2:40:32 PM	1:45	20 KB	15 KB	\$0.00	De
L1ZRRX4X16	172.16.129.131	CC-A2-23-56-87-20	1/19/2017 2:19:15 PM	1/19/2017 2:40:32 PM	0:22	5 KB	2 KB	\$0.00	De
653463207	172.16.129.152	E8-3A-12-31-C2-AF	1/19/2017 12:13:02 PM	1/19/2017 2:40:37 PM	2:28	12 MB	713 KB	\$0.00	De
1970					3637:15	76.64 GB	13.88 GB	0.00	

24.3 Statistics

Statistic report is providing valuable data about your HotSpot operation. It will show you **total time usage**, **bandwidth**, **number of logins** and **total sales** for selected day or time period. Using this feature you can identify which days generate lower profit and stimulate customers with appropriate benefits.

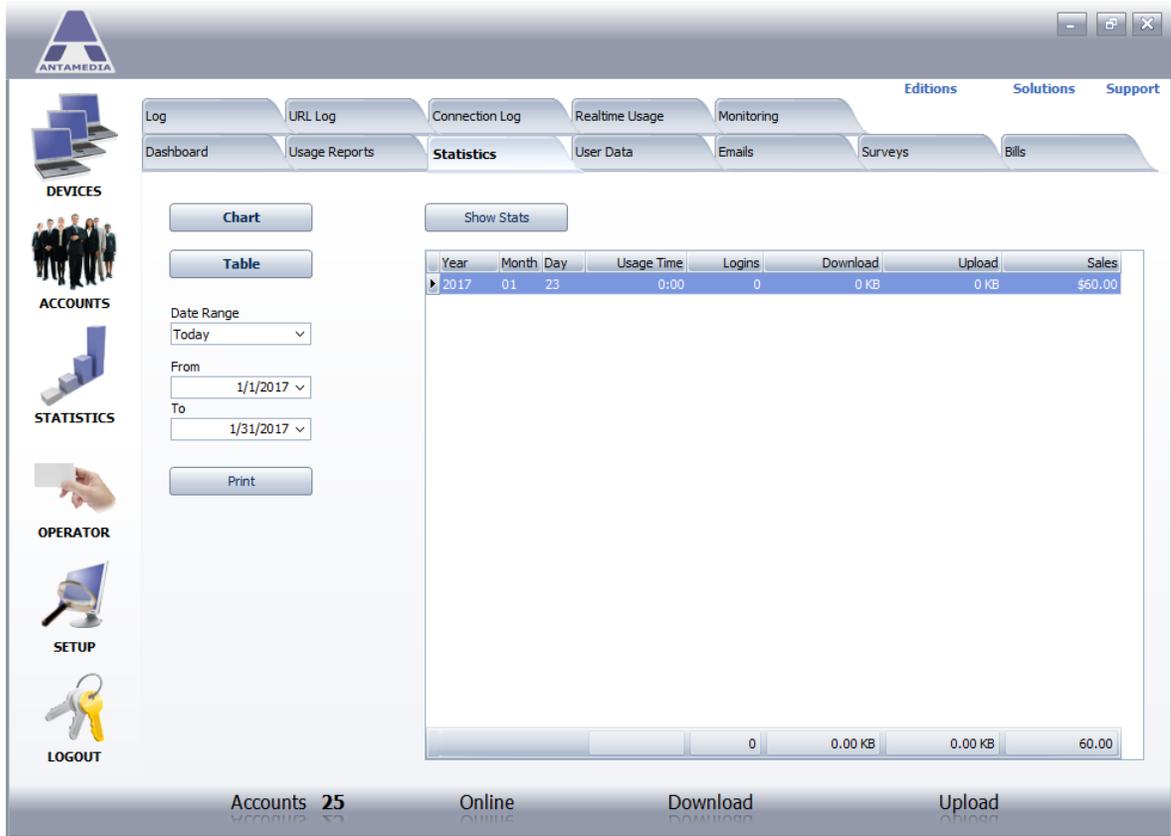
Statistical data is collected continuously, after each customer logout, so you can always enjoy fast report display on screen.

Statistics is available in Chart and Table mode. By default, statistics is displayed in chart mode, giving you a graphical overview of HotSpot activity. You can see, for example, time usage displayed in minutes, over the selected period displayed as days of the year.

Depending on the date range selected, you will see an activity in 24 hours for current day, or for a time period defined with the starting and the ending date in the **From** and **To** fields.



Table mode shows statistics in a condensed view on a daily basis. For each **year, month, and day**, you will see **usage time, number of logins, download, upload and total sales**.



The screenshot shows the Antamedia HotSpot Statistics interface. The 'Statistics' tab is selected, and the 'Table' view is active. The interface includes a sidebar with navigation options: DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area displays a table with the following data:

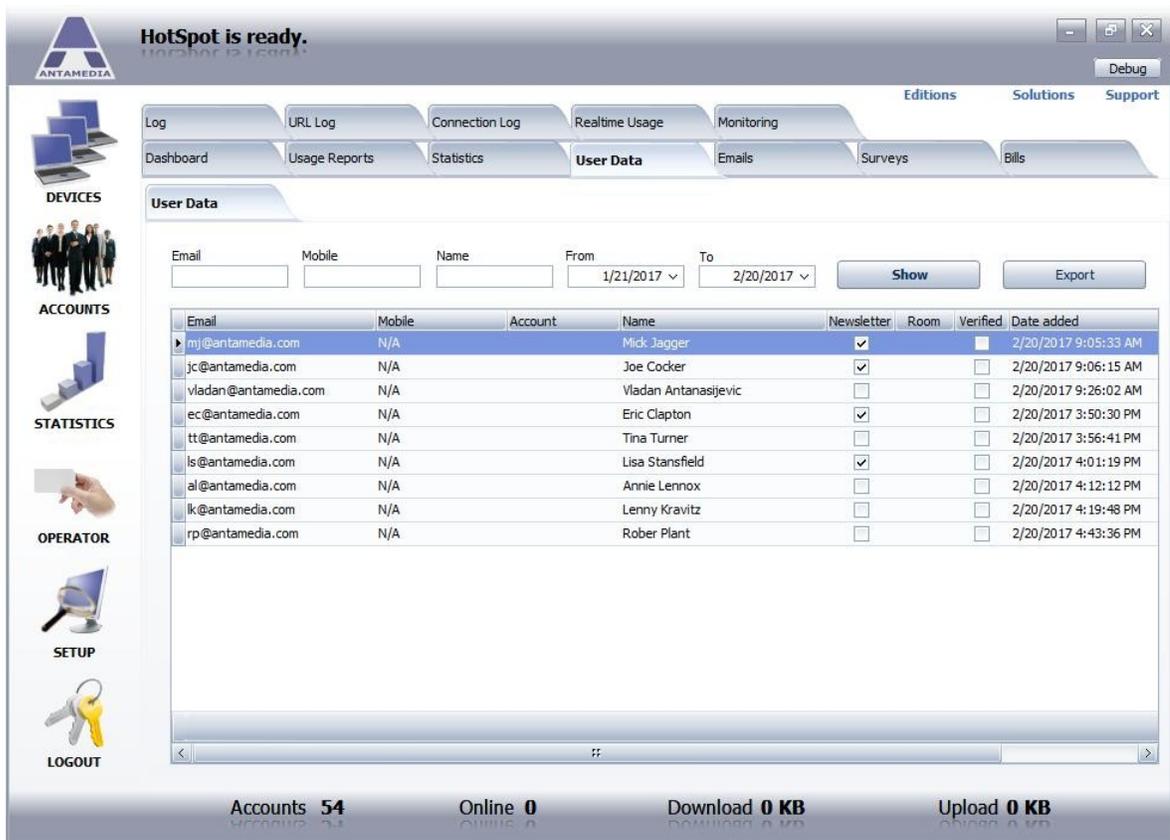
Year	Month	Day	Usage Time	Logins	Download	Upload	Sales
2017	01	23	0:00	0	0 KB	0 KB	\$50.00

Below the table, there are summary statistics: Accounts 25, Online 0, Download 0.00 KB, and Upload 0.00 KB. The interface also features a 'Date Range' dropdown set to 'Today', 'From' and 'To' date pickers set to 1/1/2017 and 1/31/2017 respectively, and a 'Print' button.

24.4 User Data

From this panel you can have access to **Collected emails and data** and ability to export information about users that accessed HotSpot using free access (without an account or with free signup).
 Email addresses will be collected if Free Access or Login page with a free trial link page is set on HotSpot - Setup - Pages - Default page screen.

Collected details are: Email address, Mobile phone number, Account name, Name, Newsletter, Room, Verified and Date of login/signup



User Data

Email	Mobile	Account	Name	Newsletter	Room	Verified	Date added
mj@antamedia.com	N/A		Mick Jagger	<input checked="" type="checkbox"/>		<input type="checkbox"/>	2/20/2017 9:05:33 AM
jc@antamedia.com	N/A		Joe Cocker	<input checked="" type="checkbox"/>		<input type="checkbox"/>	2/20/2017 9:06:15 AM
vladan@antamedia.com	N/A		Vladan Antanasijevic	<input type="checkbox"/>		<input type="checkbox"/>	2/20/2017 9:26:02 AM
ec@antamedia.com	N/A		Eric Clapton	<input checked="" type="checkbox"/>		<input type="checkbox"/>	2/20/2017 3:50:30 PM
tt@antamedia.com	N/A		Tina Turner	<input type="checkbox"/>		<input type="checkbox"/>	2/20/2017 3:56:41 PM
ls@antamedia.com	N/A		Lisa Stansfield	<input checked="" type="checkbox"/>		<input type="checkbox"/>	2/20/2017 4:01:19 PM
al@antamedia.com	N/A		Annie Lennox	<input type="checkbox"/>		<input type="checkbox"/>	2/20/2017 4:12:12 PM
lk@antamedia.com	N/A		Lenny Kravitz	<input type="checkbox"/>		<input type="checkbox"/>	2/20/2017 4:19:48 PM
rp@antamedia.com	N/A		Rober Plant	<input type="checkbox"/>		<input type="checkbox"/>	2/20/2017 4:43:36 PM

Accounts **54** Online **0** Download **0 KB** Upload **0 KB**

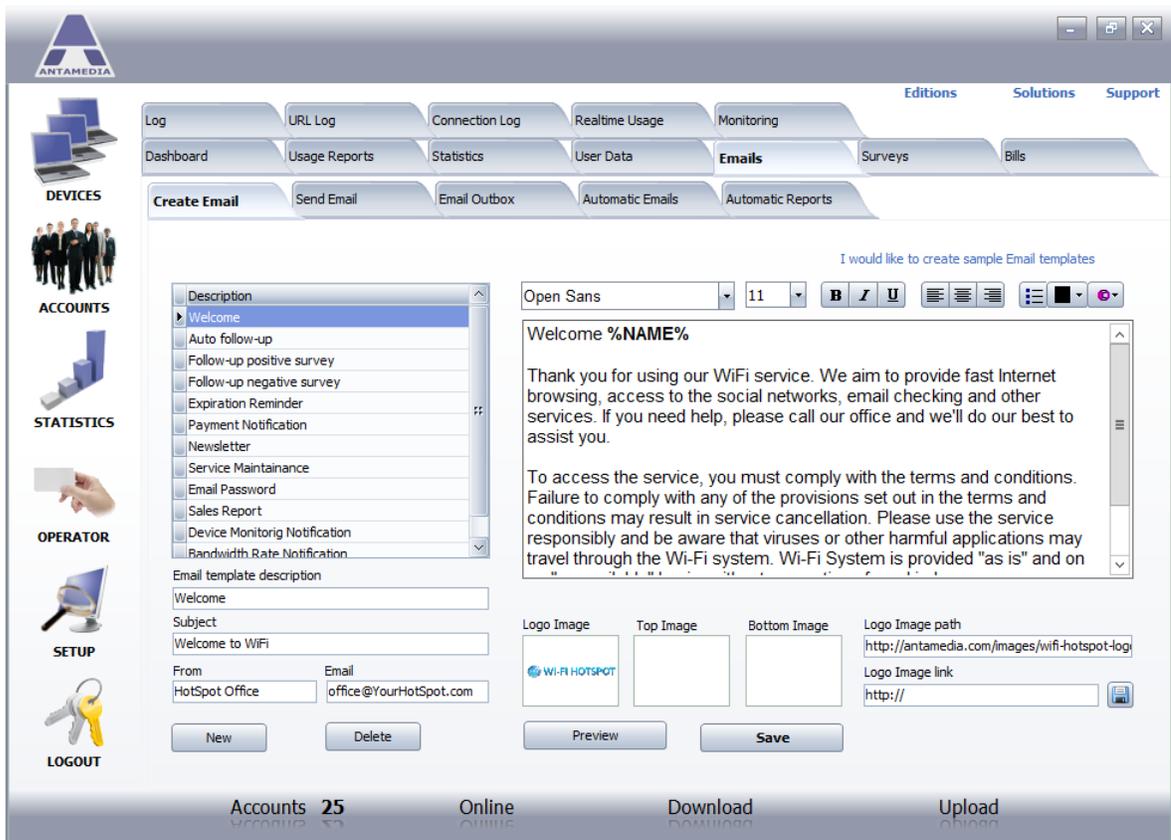
24.5 Emails

From Emails **Create Email** you can define the look and content of Email messages which will be sent to your customers. By default, HotSpot offers a few different templates like: welcome, auto follow up, expiration reminder, payment notification, newsletter and maintenance announcement. You can edit the existing one or add new templates. Please note that message text is a HTML code, and Email is sent as a HTML Email.

Each Email template is defined with:

Description	Description is displayed in the software from where an operator chooses Email template
Subject	Email subject
From	Your name, company name or the department
Email	Your Email from which you are sending a message

As addition to configuration of e-mail templates, you can set Logo Image, Top Image, Bottom Image and Logo Image path and Logo Image link.

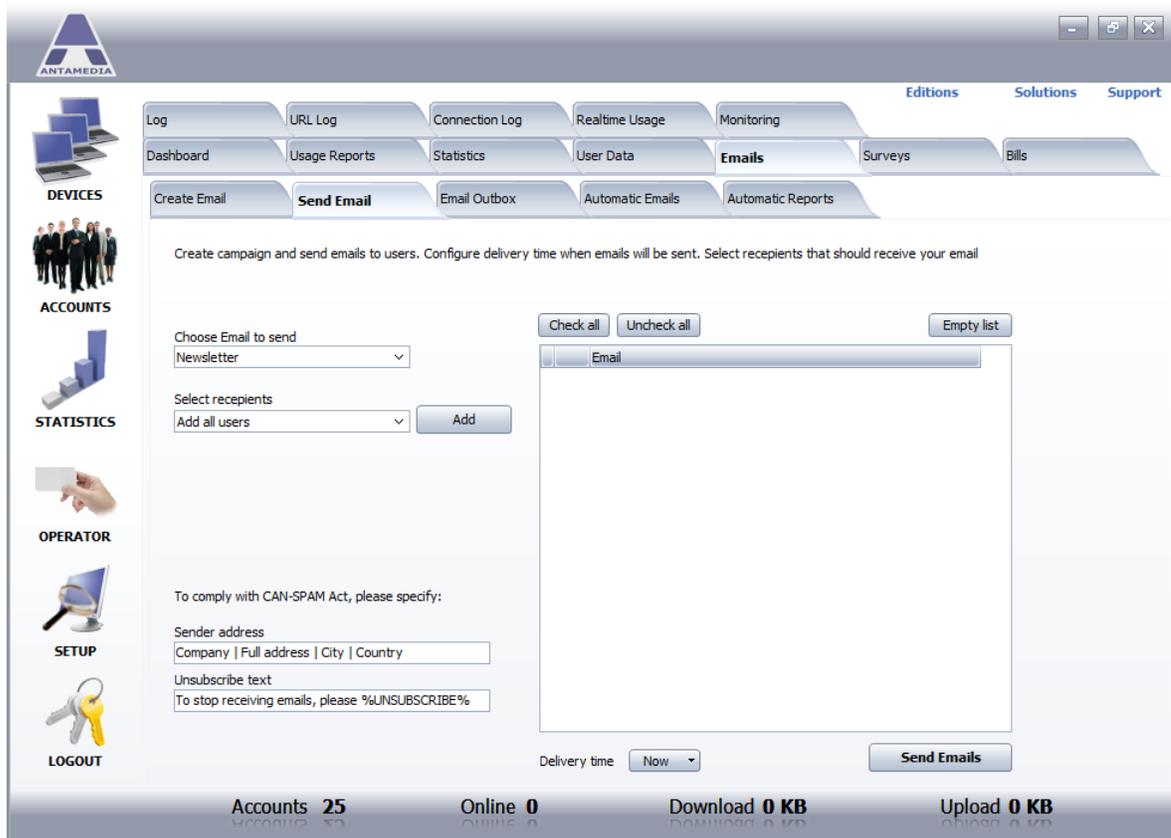


Send Email section helps you create and configure a campaign and send e-mails to users.

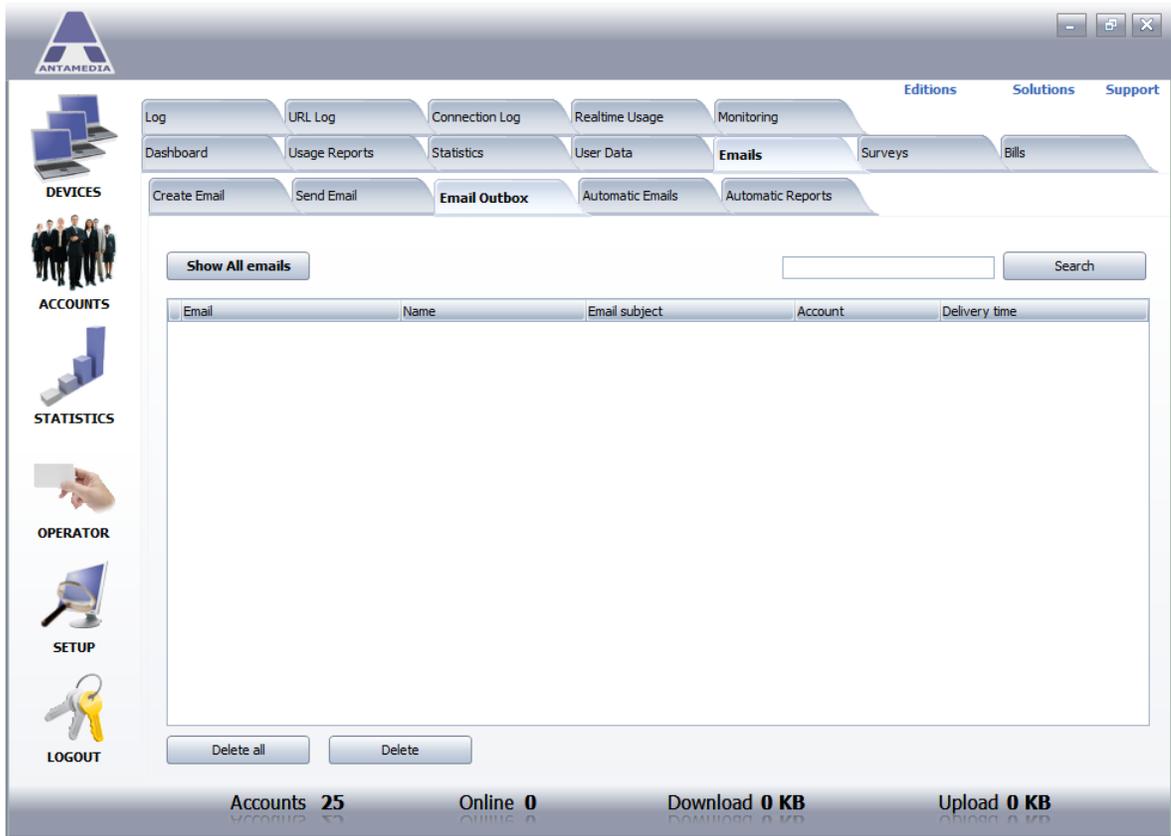
Select one from available templates in the combo bellow **Choose e-mail to send** then from **Select Recipients** select customers to which it will be send.

Additional option is to set e-mails **To comply with CAN-SPAM Act** and ability to modify **Unsubscribe text**. Set **Delivery time** for created emails.

Prepared e-mails will be visible in the list.



From **Email Outbox** you can see a list of all prepared e-mails which are pending for sending. From list you can see E-mail, Name, Email subject, Account and Delivery time for each of prepared emails.



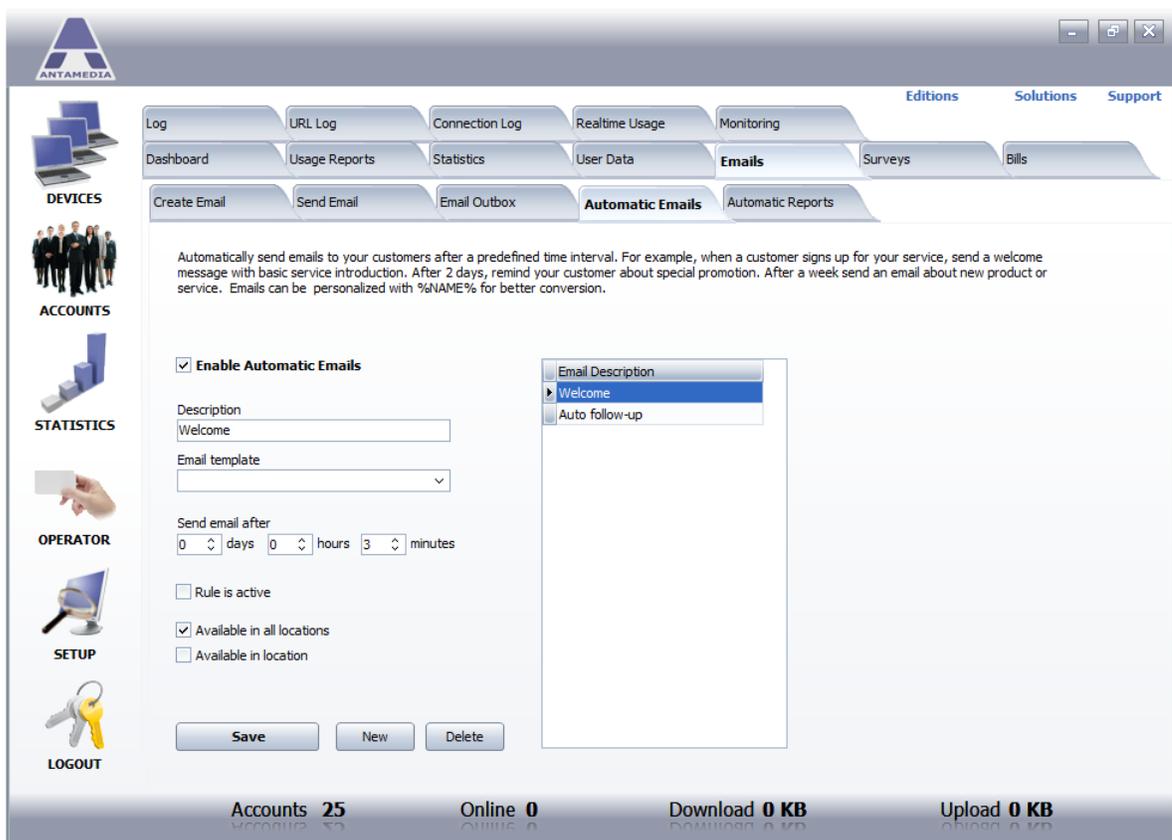
The screenshot displays the Antamedia HotSpot management interface. The top navigation bar includes options like Log, URL Log, Connection Log, Realtime Usage, Monitoring, Dashboard, Usage Reports, Statistics, User Data, **Emails**, Surveys, and Bills. The 'Emails' section is active, showing sub-options: Create Email, Send Email, **Email Outbox**, Automatic Emails, and Automatic Reports. A 'Show All emails' button and a search field are present above a table. The table has the following structure:

Email	Name	Email subject	Account	Delivery time
(Table is currently empty)				

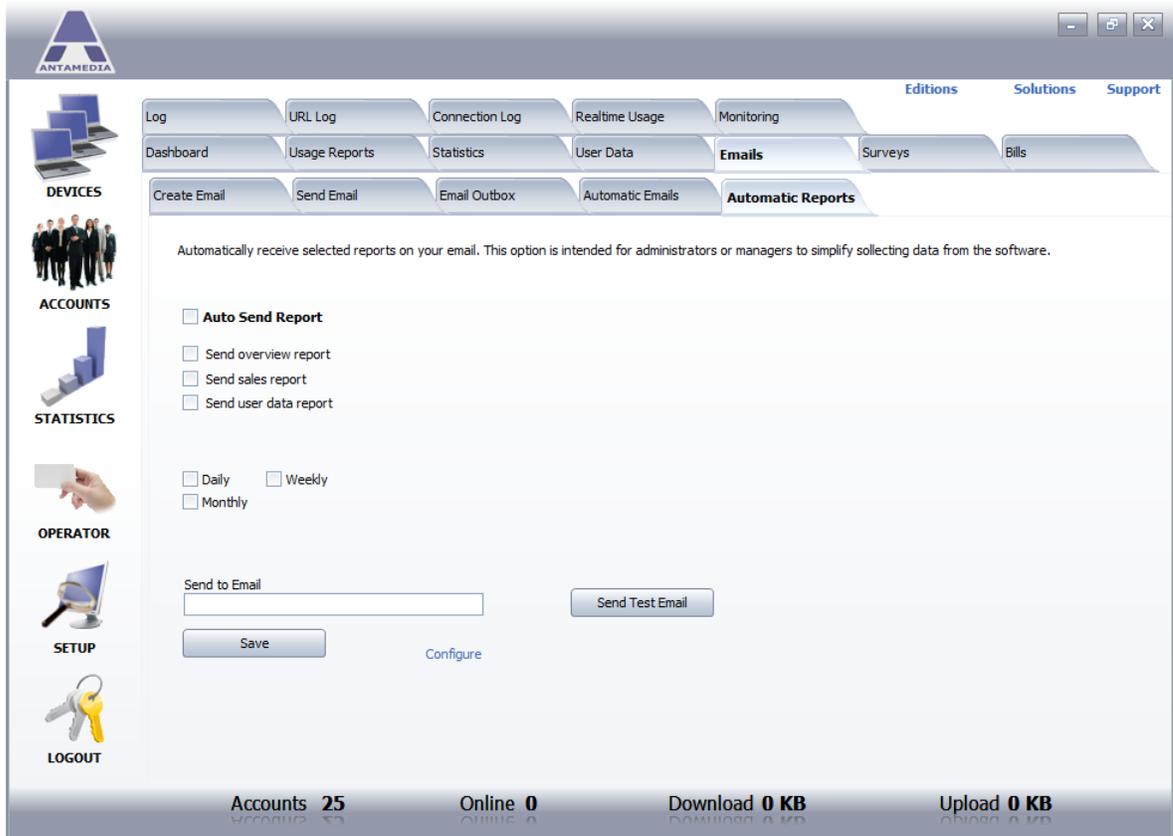
At the bottom of the interface, there are status indicators: Accounts **25**, Online **0**, Download **0 KB**, and Upload **0 KB**. There are also 'Delete all' and 'Delete' buttons at the bottom of the table area.

From **Automatic Emails** first **Enable Automatic Emails**. Select Description, Email template, time when emails will be send, location for which it will be used and activate role.

- Description** Set description which will be displayed in the software
- Email Template** Specify one from previously created templates
- Send email after _** Specify after how many days, hours or minutes it will be sent
- Rule is active now** Activate option
- Available in all locations** It will be used at all locations
- Available in location** Specify location for which auto e-mailing will be used



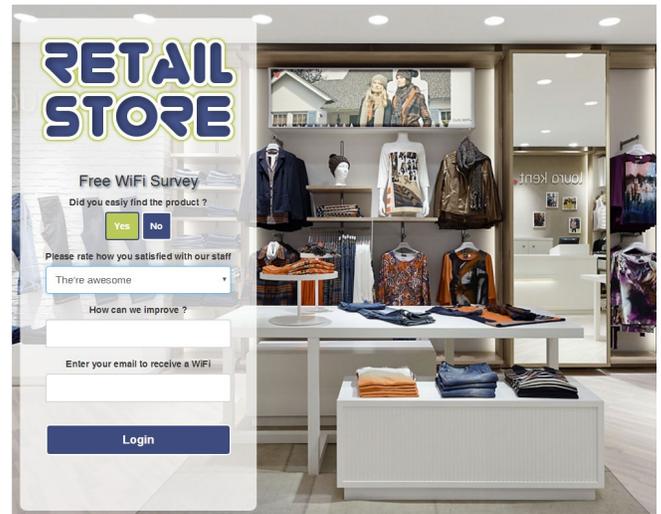
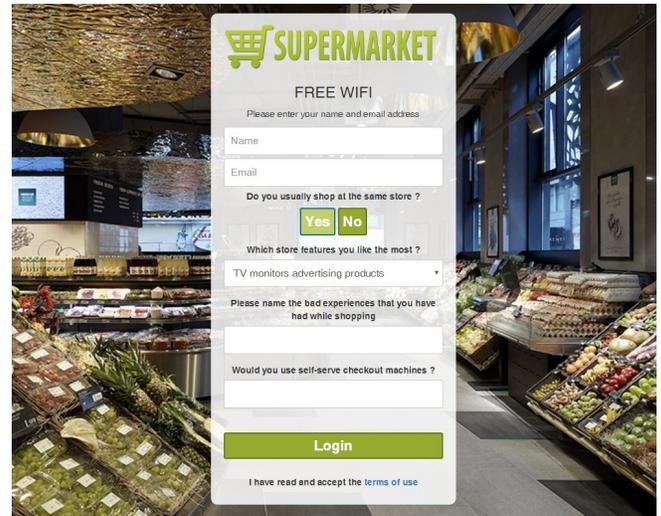
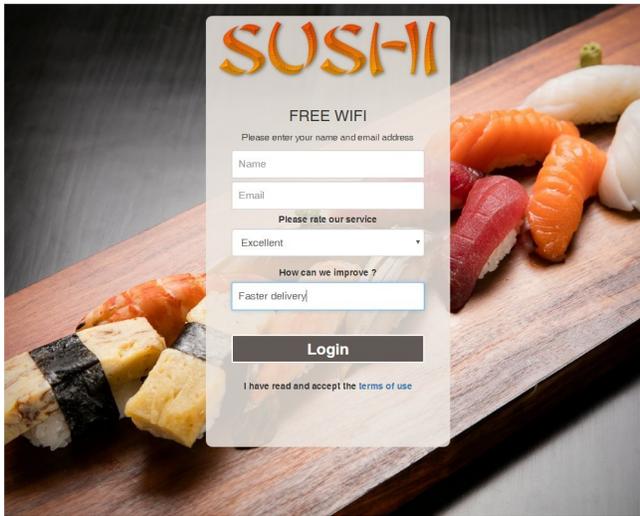
Enable and configure **Auto Send Report** from **Automatic Reports** and select between Send overview report, sales report or user data report to Administrator or manager on daily, weekly or monthly basis. Be sure that you already configured [Emailing](#)¹²⁶ from the HotSpot.



24.6 Surveys

One of the major new features in Antamedia HotSpot are Surveys. This feature helps you collect surveys from your customers. Survey form can be displayed in the login screen, welcome page, or anywhere you desire. It can be configured to appear on every location in your network or only in some of your locations.

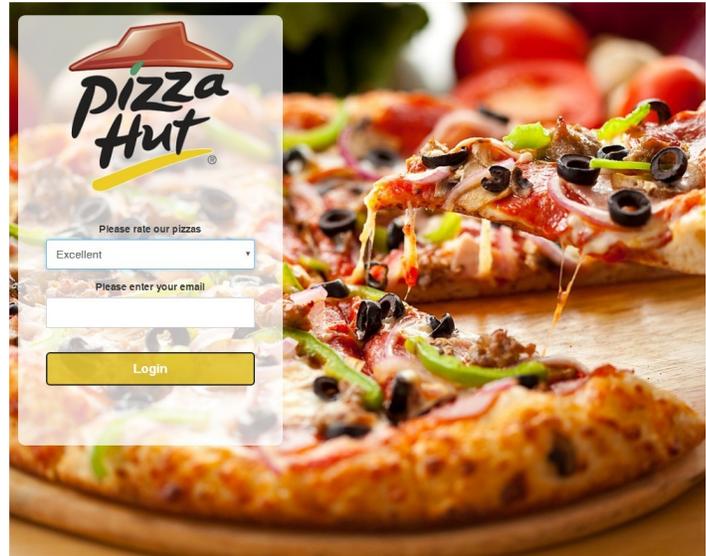
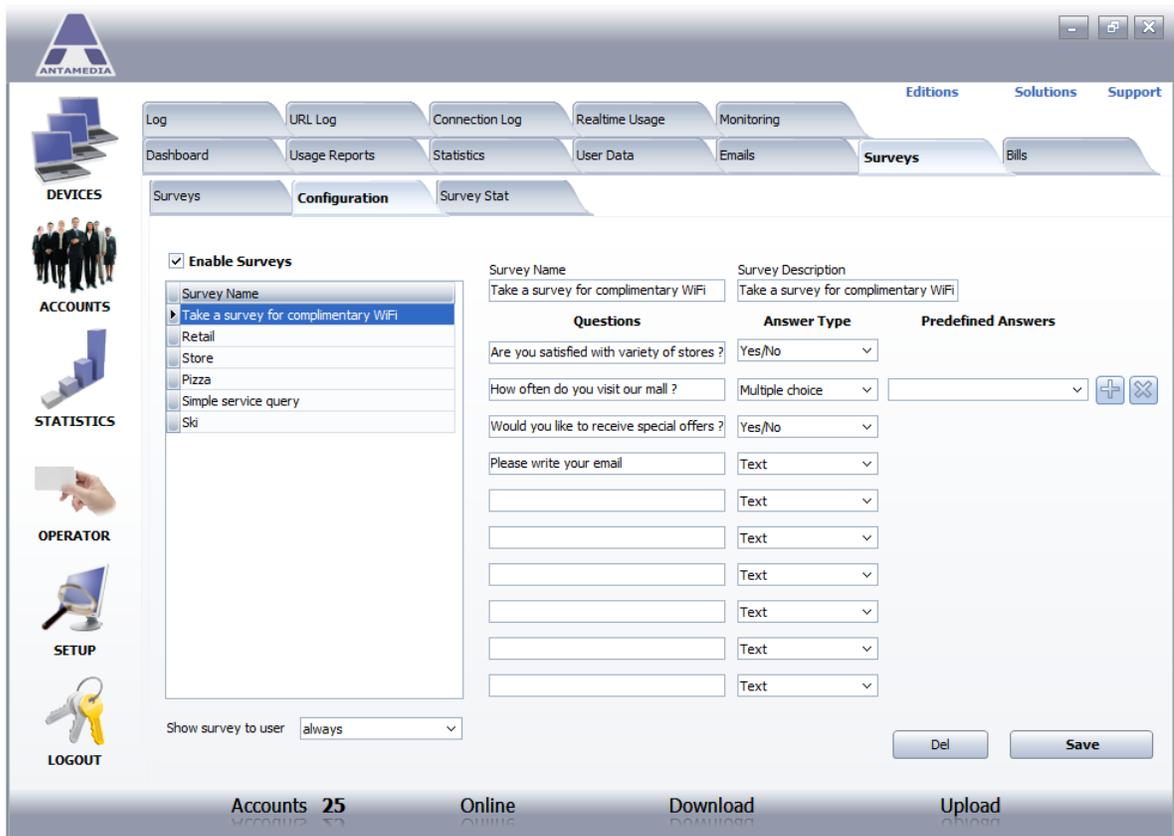
Here are the surveys examples



To configure **Surveys** feature, access to **STATISTICS Configuration** section. Select **Enable Surveys**

There are several predefined surveys that can be used. You can use only one Survey at the time over one Location. From Setup - Pages - Default Page you can set which of Surveys will be used.

Select **Survey** from list. Set new or modify existing Survey details like Name and Description etc. Survey questions can be used with different predefined answer types like yes/no, text field and multiple choices

Enable Surveys

Survey Name	Survey Description
Take a survey for complimentary WiFi	Take a survey for complimentary WiFi
Retail	
Store	
Pizza	
Simple service query	
Ski	

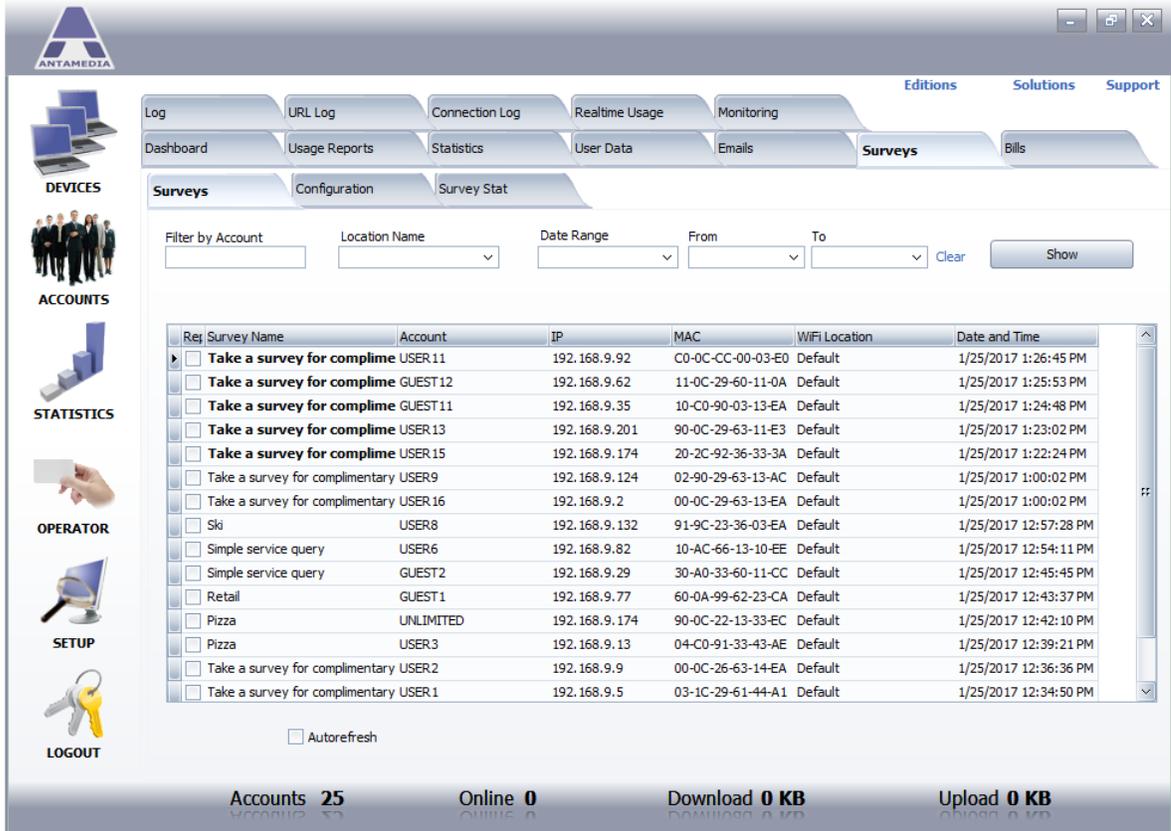
Questions	Answer Type	Predefined Answers
Are you satisfied with variety of stores ?	Yes/No	
How often do you visit our mall ?	Multiple choice	
Would you like to receive special offers ?	Yes/No	
Please write your email	Text	
	Text	

Show survey to user:

Buttons: Del, Save

Accounts: 25 Online Download Upload

From **Surveys** page you can see all surveys. Surveys can be filtered by Account, Location Name, Data Range. Each Survey in list contain information is it replied, name, account, IP, MAC, WiFi Location and Date & Time.



Ref	Survey Name	Account	IP	MAC	WiFi Location	Date and Time
<input type="checkbox"/>	Take a survey for complime	USER11	192.168.9.92	C0-0C-CC-00-03-E0	Default	1/25/2017 1:26:45 PM
<input type="checkbox"/>	Take a survey for complime	GUEST12	192.168.9.62	11-0C-29-60-11-0A	Default	1/25/2017 1:25:53 PM
<input type="checkbox"/>	Take a survey for complime	GUEST11	192.168.9.35	10-C0-90-03-13-EA	Default	1/25/2017 1:24:48 PM
<input type="checkbox"/>	Take a survey for complime	USER13	192.168.9.201	90-0C-29-63-11-E3	Default	1/25/2017 1:23:02 PM
<input type="checkbox"/>	Take a survey for complime	USER15	192.168.9.174	20-2C-92-36-33-3A	Default	1/25/2017 1:22:24 PM
<input type="checkbox"/>	Take a survey for complimentary	USER9	192.168.9.124	02-90-29-63-13-AC	Default	1/25/2017 1:00:02 PM
<input type="checkbox"/>	Take a survey for complimentary	USER16	192.168.9.2	00-0C-29-63-13-EA	Default	1/25/2017 1:00:02 PM
<input type="checkbox"/>	Ski	USER8	192.168.9.132	91-9C-23-36-03-EA	Default	1/25/2017 12:57:28 PM
<input type="checkbox"/>	Simple service query	USER6	192.168.9.82	10-AC-66-13-10-EE	Default	1/25/2017 12:54:11 PM
<input type="checkbox"/>	Simple service query	GUEST2	192.168.9.29	30-A0-33-60-11-CC	Default	1/25/2017 12:45:45 PM
<input type="checkbox"/>	Retail	GUEST1	192.168.9.77	60-0A-99-62-23-CA	Default	1/25/2017 12:43:37 PM
<input type="checkbox"/>	Pizza	UNLIMITED	192.168.9.174	90-0C-22-13-33-EC	Default	1/25/2017 12:42:10 PM
<input type="checkbox"/>	Pizza	USER3	192.168.9.13	04-C0-91-33-43-AE	Default	1/25/2017 12:39:21 PM
<input type="checkbox"/>	Take a survey for complimentary	USER2	192.168.9.9	00-0C-26-63-14-EA	Default	1/25/2017 12:36:36 PM
<input type="checkbox"/>	Take a survey for complimentary	USER1	192.168.9.5	03-1C-29-61-44-A1	Default	1/25/2017 12:34:50 PM

Selecting survey from list will give you survey questions and given answers.

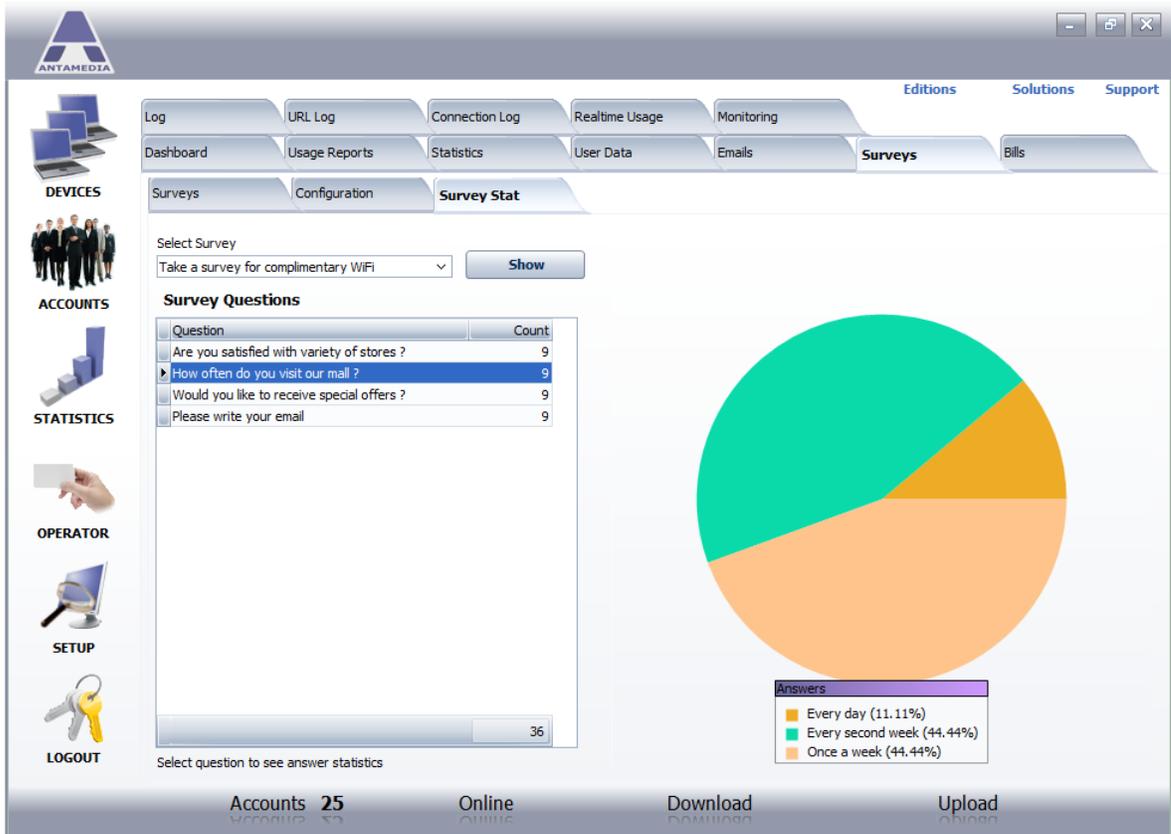
Ref	Survey Name	Account
<input type="checkbox"/>	Restaurant	
<input type="checkbox"/>	Restaurant	
<input checked="" type="checkbox"/>	Restaurant	TST
<input type="checkbox"/>	Event	
<input type="checkbox"/>	Retail_Shopping	
<input type="checkbox"/>	Spa, wellness, salon	
<input type="checkbox"/>	Hotel short	
<input type="checkbox"/>	Hotel	
<input type="checkbox"/>	Hotel survey	NEW7
<input type="checkbox"/>	Hotel	NEW6
<input type="checkbox"/>	Take a survey	656
<input checked="" type="checkbox"/>	Take a survey	657
<input type="checkbox"/>	Take a survey	11
<input type="checkbox"/>	Take a survey	18

Autorefresh

Restaurant 2/20/2017 4:43:36 PM

Questions	Answers
What is your name ?	Rober Plant
What is your email ?	rp@antamedia.com
Please rate how the restaurant meet your expectation	★★★★★
Please rate the staff friendliness and professionalism	★★★★★
Please rate the quality and variety of food	★★★★★
What you like the most in our restaurant ?	Great atmosphere
What can be improved or added to the service in your opinion ?	More asian dishes
How likely is it that you'll recommend our restaurant to a friend, family or colleague ?	★★★★★

From **Survey Stat tab** you can see statistics for each of Surveys. Beside each survey question is available number of answers and on the page is visible also "chart pie" preview of results.



The screenshot shows the 'Survey Stat' tab in the Antamedia HotSpot management interface. On the left is a navigation sidebar with icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The main content area has a top navigation bar with tabs like Log, URL Log, Connection Log, Realtime Usage, Monitoring, Dashboard, Usage Reports, Statistics, User Data, Emails, Surveys, and Bills. The 'Surveys' tab is active, showing a 'Select Survey' dropdown menu with the option 'Take a survey for complimentary WiFi' and a 'Show' button. Below this is a table of 'Survey Questions' with columns for 'Question' and 'Count'. The table lists four questions, each with a count of 9. To the right of the table is a pie chart showing the distribution of answers for the selected question. The legend indicates three categories: 'Every day (11.11%)', 'Every second week (44.44%)', and 'Once a week (44.44%)'. At the bottom of the interface, there are status indicators for Accounts (25), Online (0/111), Download (0/111), and Upload (0/111).

Question	Count
Are you satisfied with variety of stores ?	9
How often do you visit our mall ?	9
Would you like to receive special offers ?	9
Please write your email	9

Answers

- Every day (11.11%)
- Every second week (44.44%)
- Once a week (44.44%)

24.7 Bills Report

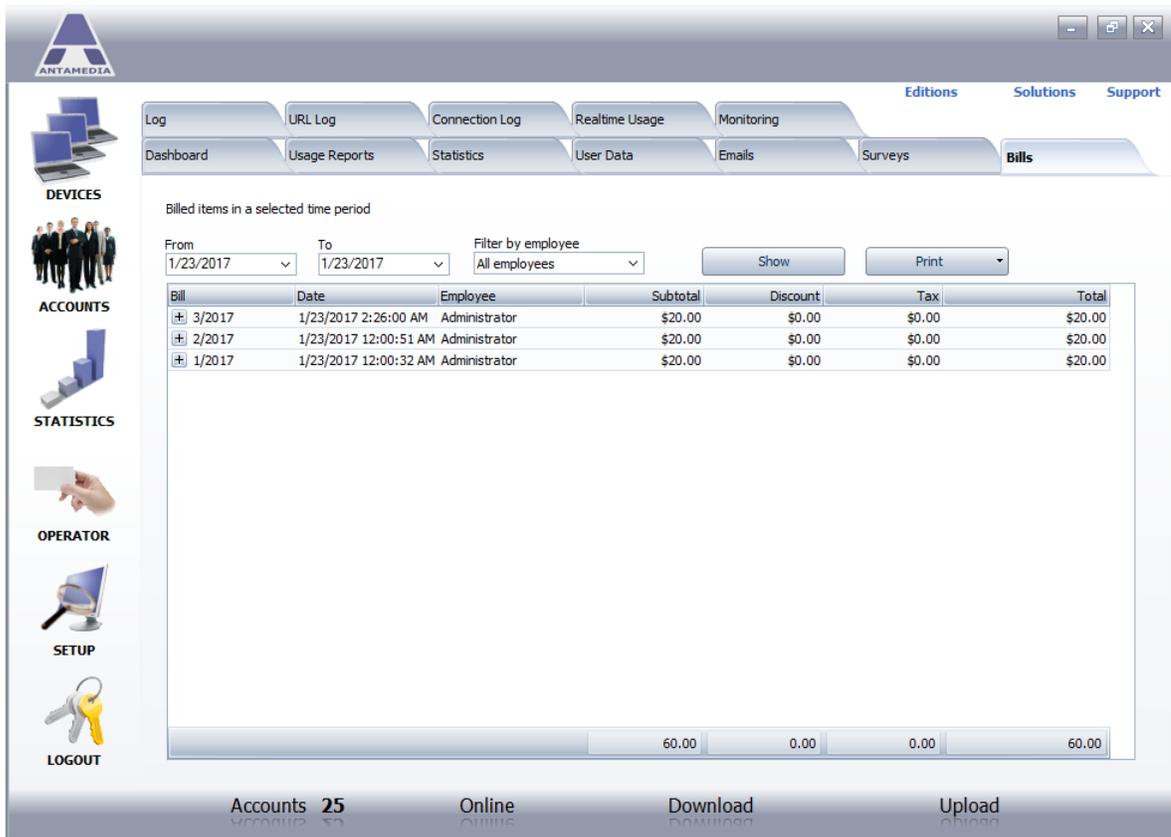
Bills page shows the list of all charged bills. Each bill has the following details: Date, Subtotal, Discount, Tax and Total amount.

If you want to see what was charged on the selected bill, please click on + button to open the list. You can see the following details: Description, Subtotal, Quantity, Tax and Total amount

For example, if you generate and sell 10 accounts, you will see in description field
 Description: Sold 10 accounts (ID 1-10) with price plan 15 minutes test
 Quantity: 10

To display all the bills of specified time period, please select starting and ending date in the **From** and **To** fields and press **Show** button.

HotSpot automatically calculates totals for all bills and displays it in bottom bar.



Billed items in a selected time period

From: 1/23/2017 To: 1/23/2017 Filter by employee: All employees [Show] [Print]

Bill	Date	Employee	Subtotal	Discount	Tax	Total
+ 3/2017	1/23/2017 2:26:00 AM	Administrator	\$20.00	\$0.00	\$0.00	\$20.00
+ 2/2017	1/23/2017 12:00:51 AM	Administrator	\$20.00	\$0.00	\$0.00	\$20.00
+ 1/2017	1/23/2017 12:00:32 AM	Administrator	\$20.00	\$0.00	\$0.00	\$20.00

Summary: Subtotal: 60.00, Discount: 0.00, Tax: 0.00, Total: 60.00

Accounts: 25 Online: 0/0 Download: 0/0 Upload: 0/0

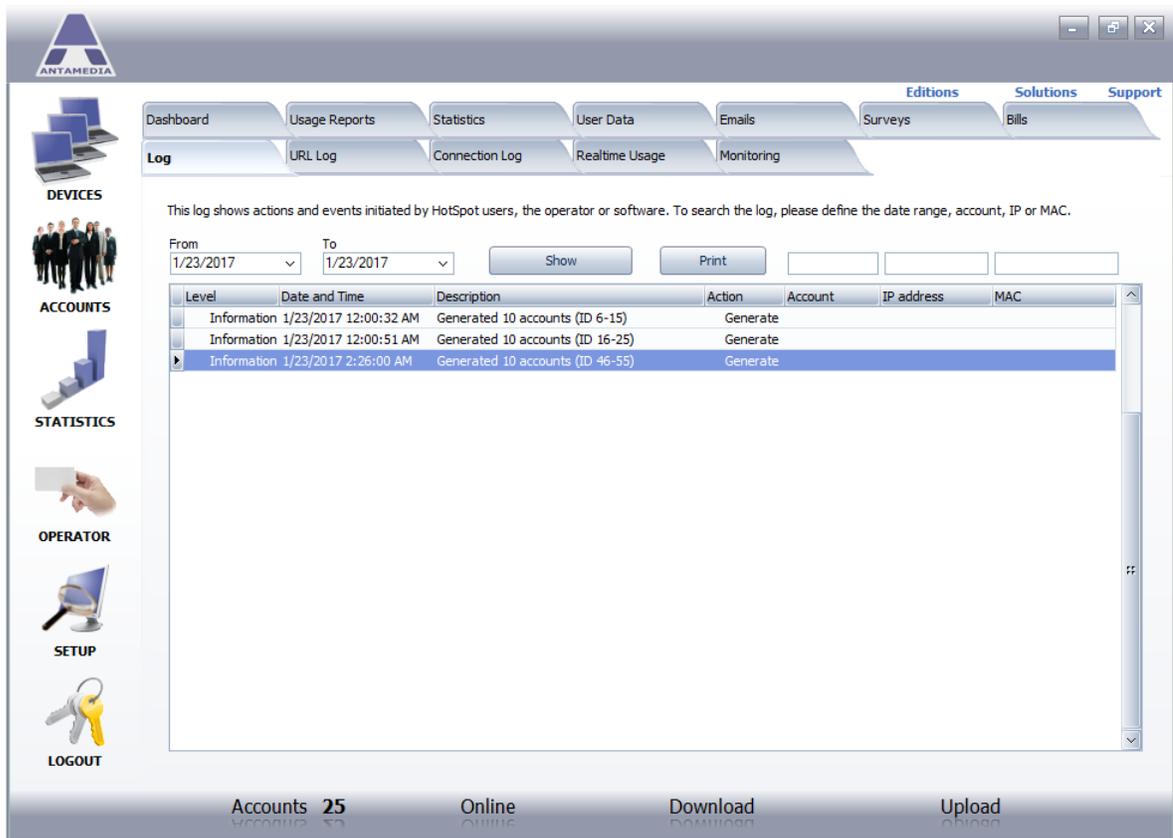
24.8 HotSpot Log

HotSpot log shows all the actions and events initiated by HotSpot users, operator or software.

Log shows the following details:

- Level
 - Information, used for account login and logout, and many other informational messages
 - Warning, wrong user login and information that might require administrator attention
 - Payment, when customers pay for your service
 - System Error, if any HotSpot malfunction occurs
- Date and time
- Description
- Action (Login, Logout, Modify, Start, Stop, Error, Generate, Add, Del, New)
- Account
- IP address
- MAC address

To display all the log items for specified time period, please select starting and ending date in the **From** and **To** fields and press **Show** button. If you like to show log for specific computer, please enter its account, IP or MAC address and press **Show** button.



This log shows actions and events initiated by HotSpot users, the operator or software. To search the log, please define the date range, account, IP or MAC.

From: 1/23/2017 To: 1/23/2017 [Show] [Print]

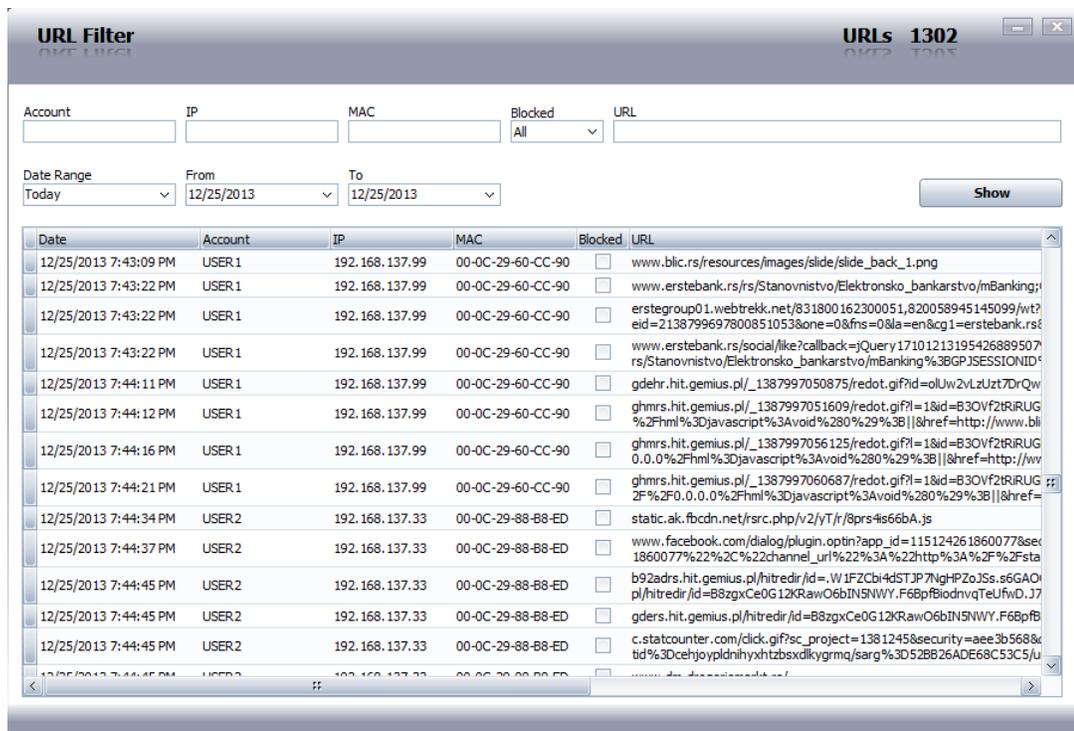
Level	Date and Time	Description	Action	Account	IP address	MAC
Information	1/23/2017 12:00:32 AM	Generated 10 accounts (ID 6-15)	Generate			
Information	1/23/2017 12:00:51 AM	Generated 10 accounts (ID 16-25)	Generate			
Information	1/23/2017 2:26:00 AM	Generated 10 accounts (ID 46-55)	Generate			

Accounts: 25 Online: 0/1111 Download: 0/11111 Upload: 0/1111

24.9 URL Log

URL log page located in the HotSpot - Statistics - URL Log shows a list of the websites which your customers have visited. URL log is periodically saved to a hard drive (on each 1000 websites listed) and cleared, in order to keep good performance. If you like to check which pages your customers have visited on a specific day, please check the info on C:\Antamedia\HotSpot\Log folder. The files are named with the date and time when log was created.

HotSpot software also includes URL Filter tool which enables easy browsing through the log files, it allows you to search the logs using various criteria like date range and/or Account name, IP or MAC address and website address (URL). It can be launched from URL log page or directly from C:\Antamedia\HotSpot folder in case that HotSpot is not running.



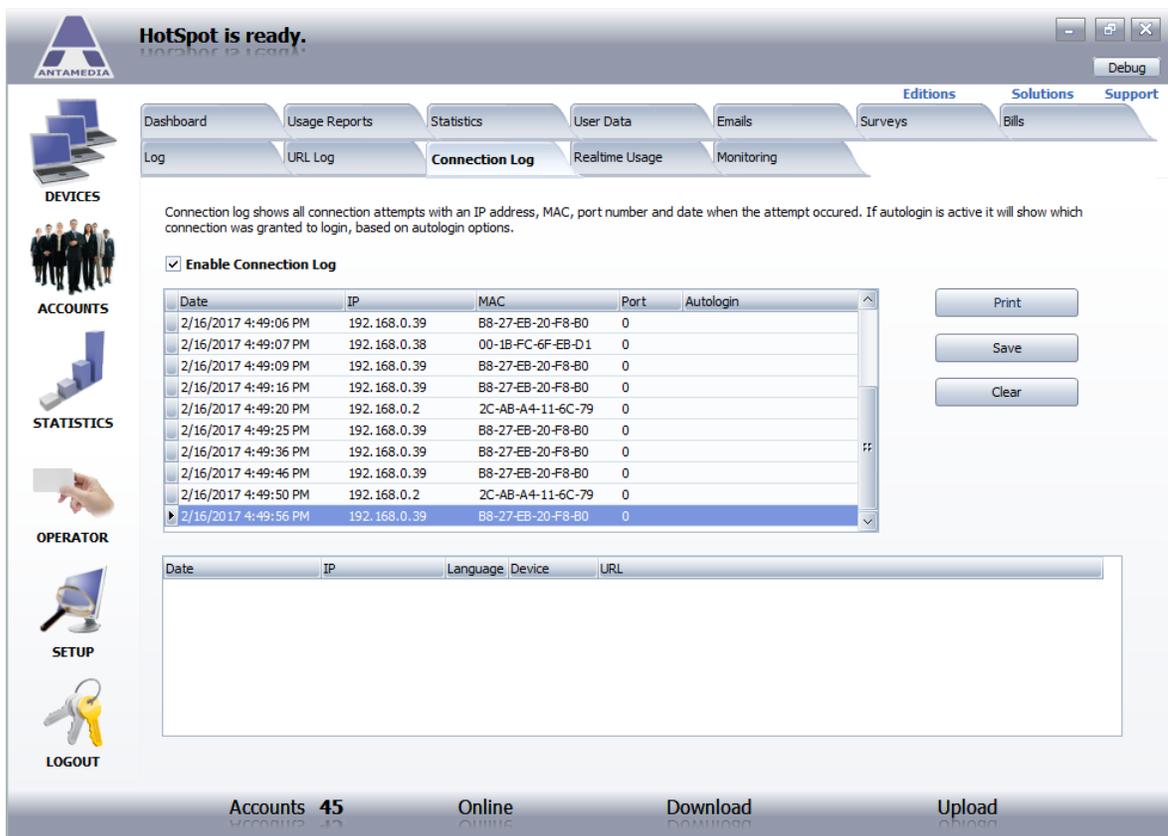
24.10 Connection Log

Connection log shows all the connection attempts to your HotSpot which can give you a realtime report who is trying to login to your network. It is a powerful tool which shows IP and MAC address and the port which remote computer is trying to access, it also shows successful logins list with details such as time, user's IP, language of the client browser, user's device type and initial URL accessed during login.

This log can be used to monitor your network, to detect if any hacking attempts are in progress, to identify a reason when a customer is having a problem to login.

In case when **Autologin** feature is enabled, **connection log** will show which connection was granted to login automatically, based on autologin settings. In such case customer does not see HotSpot login page, but instead get instant Internet access and HotSpot handle login process. Autologin is possible as MAC address of customer computer is known and tied to customer account.

To activate this feature, please **Enable Connection Log**.



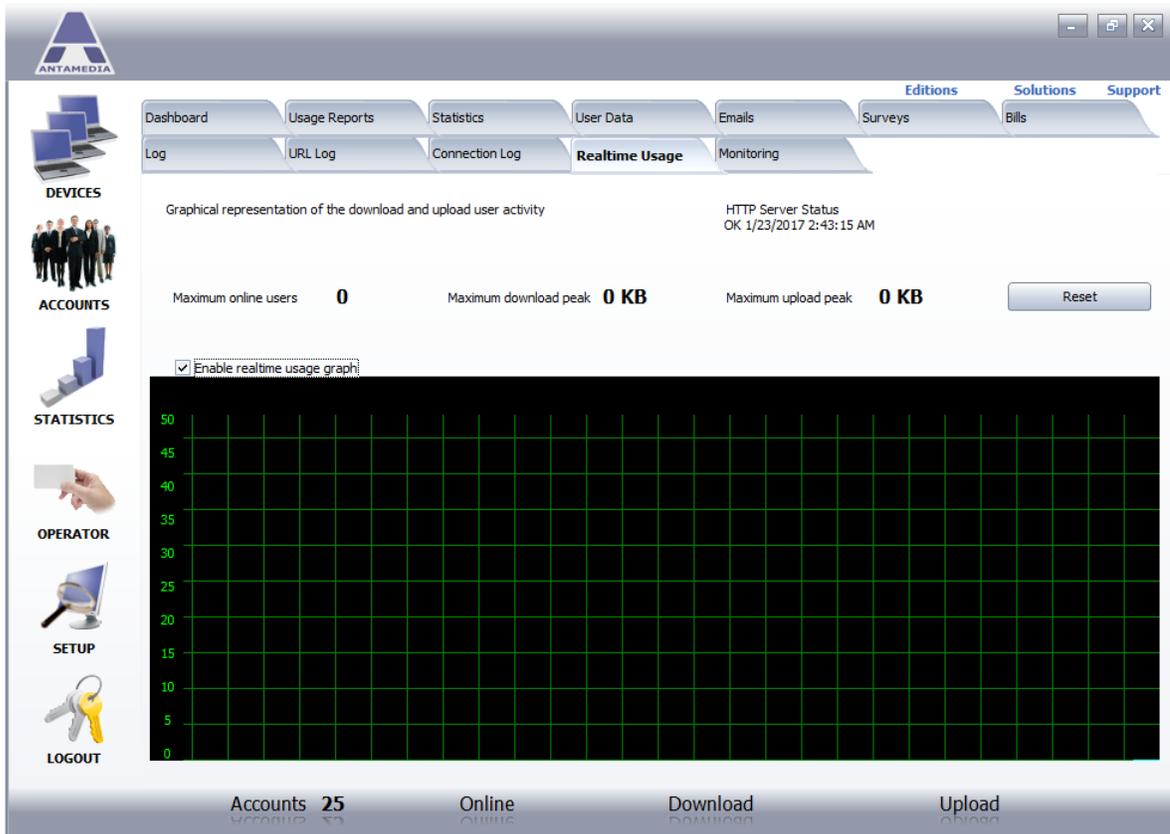
The screenshot shows the Antamedia HotSpot Management Interface. The main window title is "HotSpot is ready." and the Antamedia logo is in the top left. The interface has a sidebar on the left with icons for DEVICES, ACCOUNTS, STATISTICS, OPERATOR, SETUP, and LOGOUT. The top navigation bar includes Dashboard, Usage Reports, Statistics, User Data, Emails, Editions, Solutions, Support, Surveys, and Bills. The "Connection Log" tab is selected in the sub-navigation bar. Below the navigation, there is a description of the connection log and a checkbox labeled "Enable Connection Log" which is checked. A table displays connection log entries with columns for Date, IP, MAC, Port, and Autologin. The table contains 10 rows of data. To the right of the table are buttons for Print, Save, and Clear. Below the table is another empty table with columns for Date, IP, Language, Device, and URL. At the bottom of the interface, there are summary statistics: Accounts 45, Online, Download, and Upload.

Date	IP	MAC	Port	Autologin
2/16/2017 4:49:06 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:07 PM	192.168.0.38	00-1B-FC-6F-EB-D1	0	
2/16/2017 4:49:09 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:16 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:20 PM	192.168.0.2	2C-AB-A4-11-6C-79	0	
2/16/2017 4:49:25 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:36 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:46 PM	192.168.0.39	B8-27-EB-20-F8-80	0	
2/16/2017 4:49:50 PM	192.168.0.2	2C-AB-A4-11-6C-79	0	
2/16/2017 4:49:56 PM	192.168.0.39	B8-27-EB-20-F8-80	0	

24.11 Realtime usage

Realtime usage report shows a real time graph with total bandwidth usage (download and upload). This page also shows information about Hotspot HTTP Server status, maximum online users achieved and maximum download and upload peaks.

Note that this is control option and should not be active all the time.



24.12 Monitoring

Access point and device monitoring give you ability to track uptime of your devices. It pings your access points and other devices that responds to PING command, and tracks responses received. In case that AP/device does not respond within configured time an error reports can be sent to inform about failure and help you eliminate downtime.

Enable Monitoring

Select it to activate devices monitoring on local network.

AP/Device IP address

Enter IP address of device that you want to ping.

Add

Press on Add button to add devices IP address to list of monitored devices.

Remove

Press on Remove button to remove device IP address from list.

Max response time __ seconds

Set maximum response time in seconds in which a device should respond

Send error report by E-mail

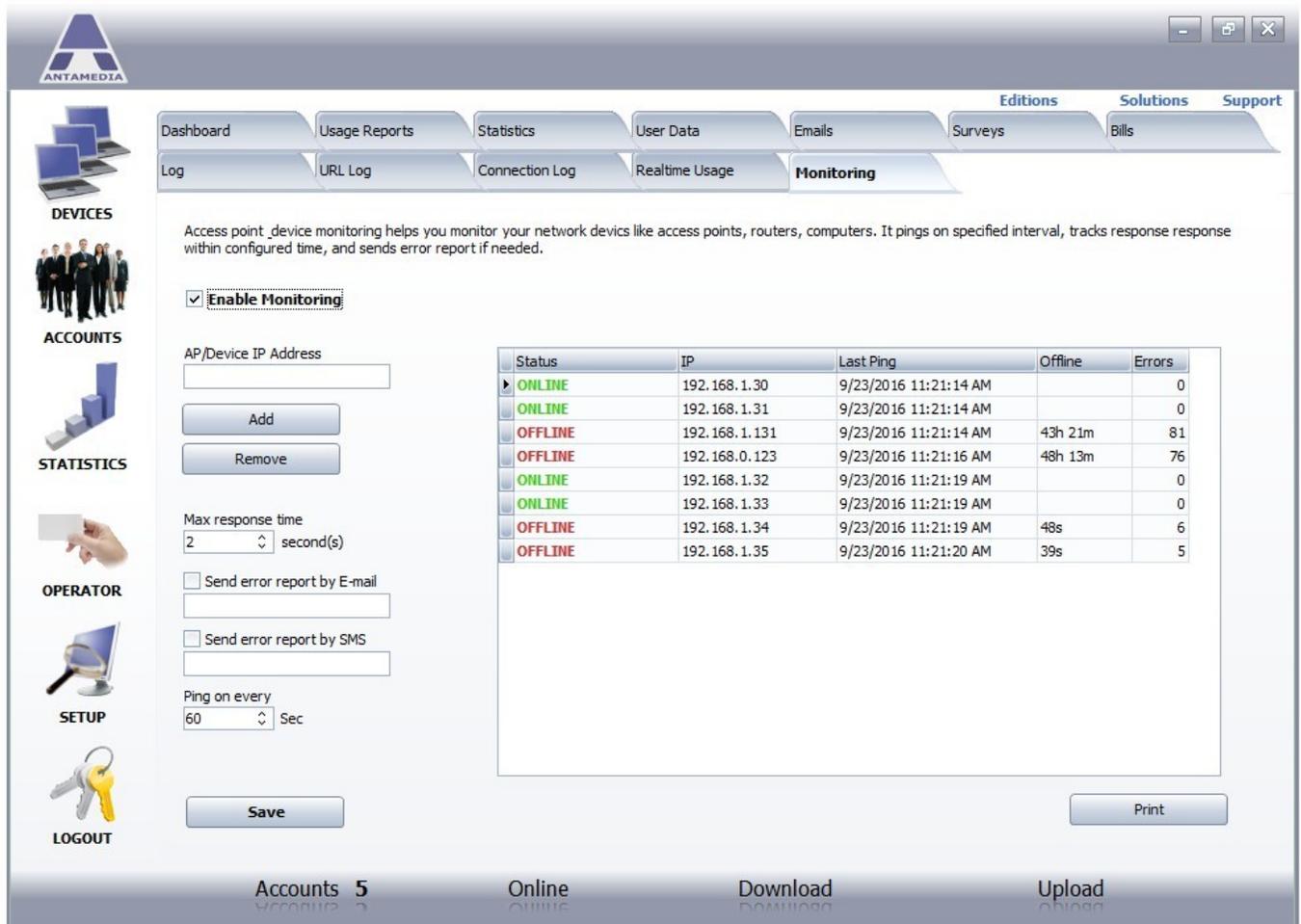
Select to send error report and enter E-mail address to which it will be sent.

Send error report by SMS

Select to send error report and enter mobile to which it will be sent.

Ping on every __ minute(s)

Select number of minutes for ping interval.



Access point device monitoring helps you monitor your network devices like access points, routers, computers. It pings on specified interval, tracks response response within configured time, and sends error report if needed.

Enable Monitoring

AP/Device IP Address

Max response time
 2 second(s)
 Send error report by E-mail
 Send error report by SMS

Ping on every
 60 Sec

Status	IP	Last Ping	Offline	Errors
ONLINE	192.168.1.30	9/23/2016 11:21:14 AM		0
ONLINE	192.168.1.31	9/23/2016 11:21:14 AM		0
OFFLINE	192.168.1.131	9/23/2016 11:21:14 AM	43h 21m	81
OFFLINE	192.168.0.123	9/23/2016 11:21:16 AM	48h 13m	76
ONLINE	192.168.1.32	9/23/2016 11:21:19 AM		0
ONLINE	192.168.1.33	9/23/2016 11:21:19 AM		0
OFFLINE	192.168.1.34	9/23/2016 11:21:19 AM	48s	6
OFFLINE	192.168.1.35	9/23/2016 11:21:20 AM	39s	5

Accounts 5 Online Download Upload

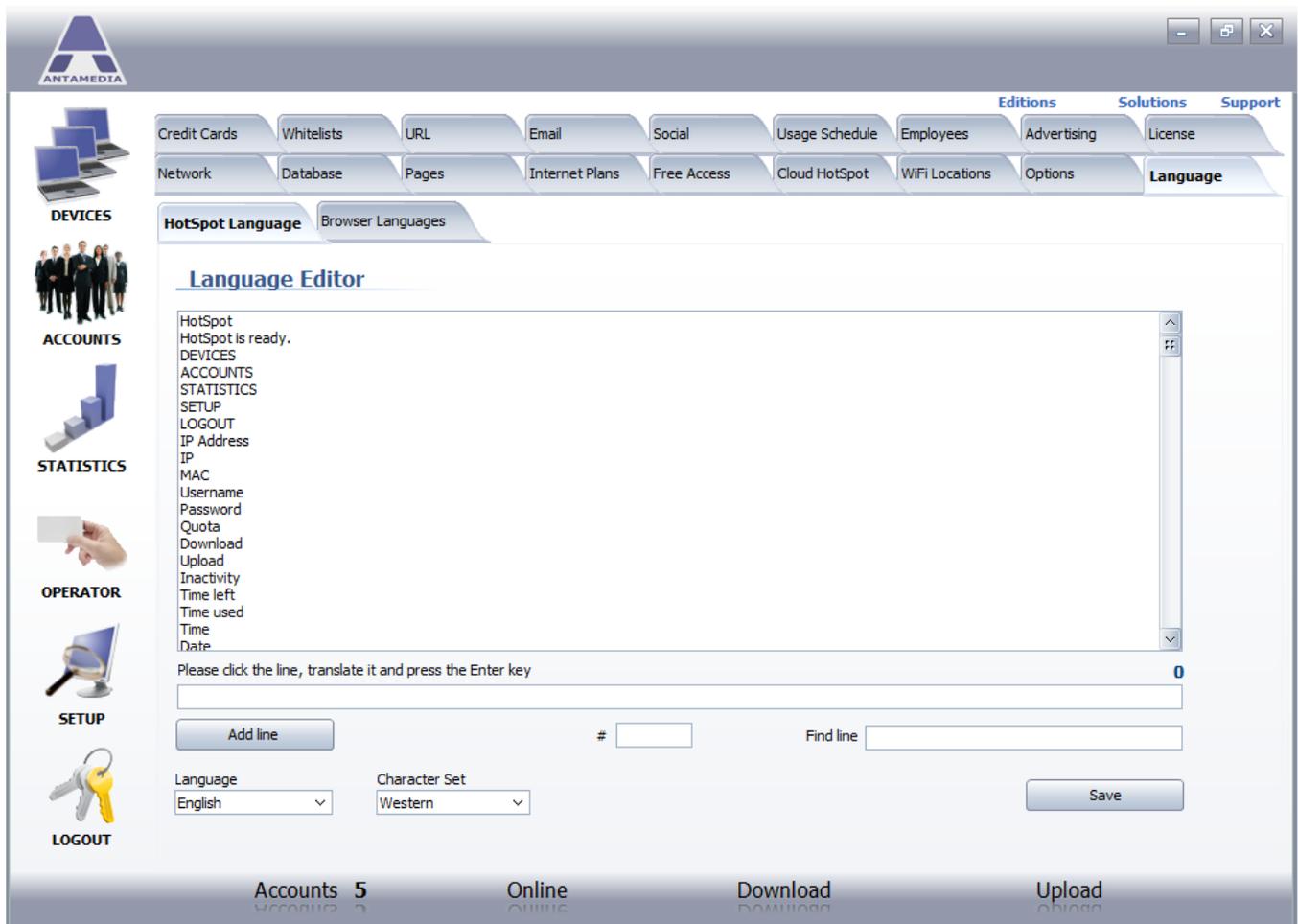
Each device is monitored and it's status displayed on screen. If a device is offline, you can see offline duration as well as number of pings without response. An error report is sent on 10th ping error. You can configure ping interval to suite your requirements.s

25 Language Editor

There are plenty of languages included in HotSpot software. Each of these languages can be adjusted to your own needs through integrated editor. Some of the included languages are: English, Spanish, Portuguese, French, Serbian, Arabic, Russian, Icelandic, Swedish, Danish, Greek, Croatian, German, Polish...

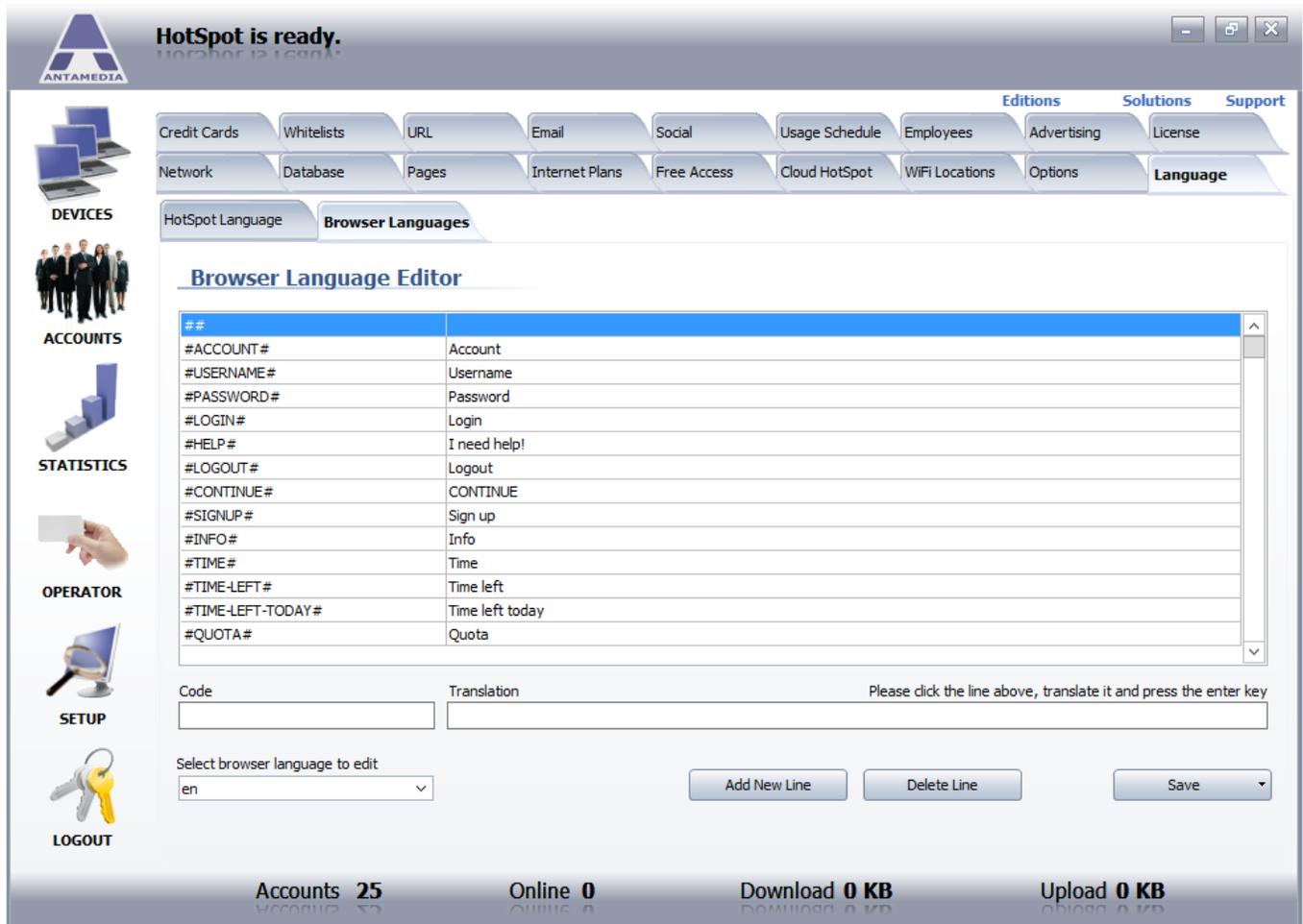
To modify the existing translation file or create completely new, please follow these steps:

1. Go to HotSpot - Setup - Language - HotSpot Language page
2. Click on a line you wish to modify and it will appear in edit field below
3. Type a new text
4. Press Enter key and new line will be stored in HotSpot
5. Repeat the steps 2-4 for all the sentences you want to translate
6. When you finish, press **Save** button
7. Type the new name for translation file and press Save button in dialog



Hotspot has the ability to automatically translate its web pages (login page, welcome, help etc.) in real-time, based on the predefined language in the customer browser. Currently supported languages are English, Spanish and Serbian, you can easily create a new translation or modify existing using these steps:

1. Go to HotSpot - Setup - Language - Browser Language page
2. Click on a line you wish to modify and type a new text in **Translation** field
3. Press Enter key and new line will be stored
4. Repeat the steps 2-4 for all the sentences you want to translate
- 5a. If you want to modify language file, click **Save** button
- 5b. If you want to create new translation, click on the arrow beside **Save** button and select **Save as new language**
6. Type the ISO abbreviation for language and press **Ok** button in dialog



The screenshot shows the 'Browser Language Editor' interface. At the top, there's a navigation menu with categories like 'Credit Cards', 'Whitelists', 'URL', 'Email', 'Social', 'Usage Schedule', 'Employees', 'Advertising', 'License', 'Network', 'Database', 'Pages', 'Internet Plans', 'Free Access', 'Cloud HotSpot', 'WiFi Locations', 'Options', and 'Language'. The 'Language' category is selected, and 'Browser Languages' is the active sub-tab.

The main area is titled 'Browser Language Editor' and contains a table with the following data:

##	Code	Translation
#ACCOUNT#	Account	Account
#USERNAME#	Username	Username
#PASSWORD#	Password	Password
#LOGIN#	Login	Login
#HELP#	I need help!	I need help!
#LOGOUT#	Logout	Logout
#CONTINUE#	CONTINUE	CONTINUE
#SIGNUP#	Sign up	Sign up
#INFO#	Info	Info
#TIME#	Time	Time
#TIME-LEFT#	Time left	Time left
#TIME-LEFT-TODAY#	Time left today	Time left today
#QUOTA#	Quota	Quota

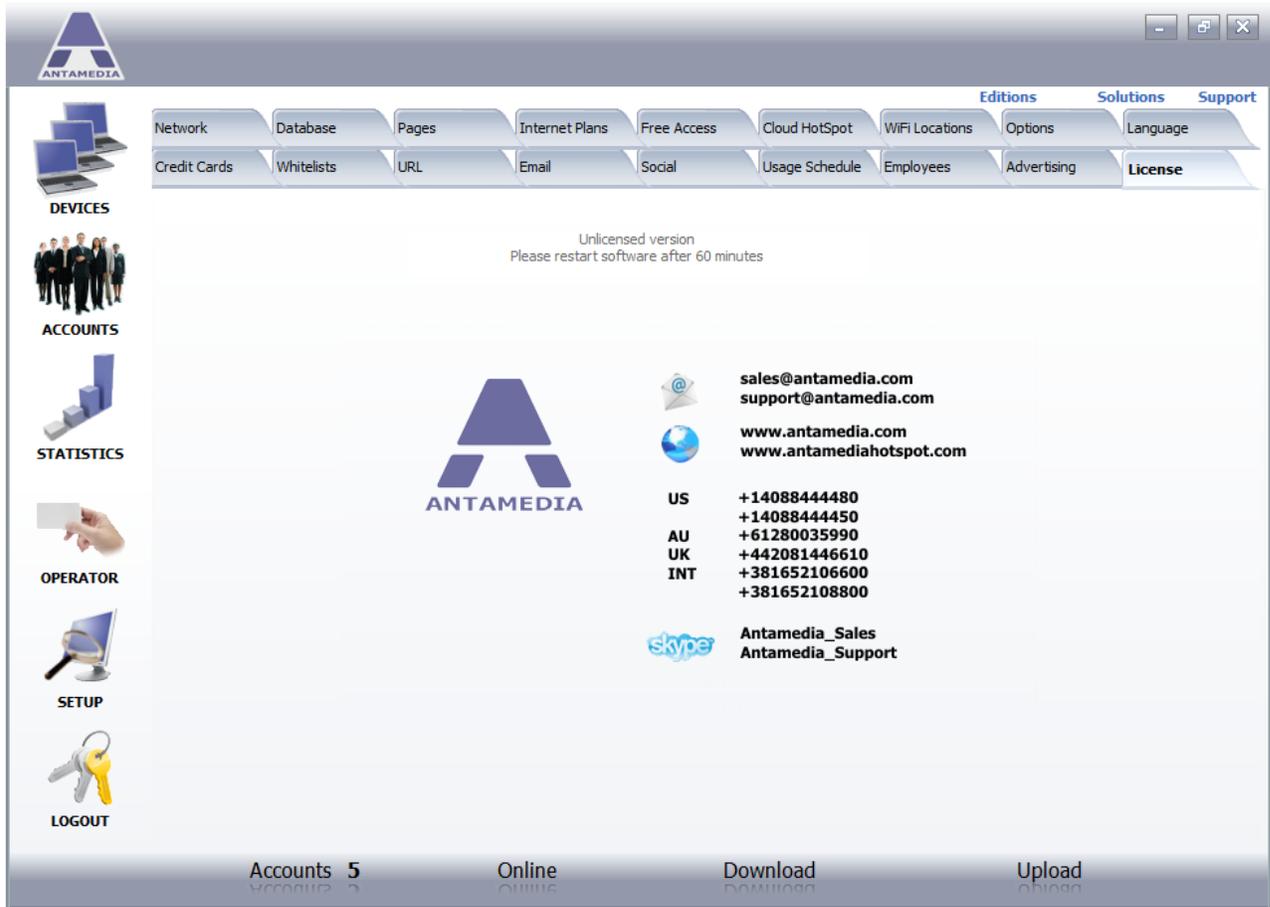
Below the table, there are input fields for 'Code' and 'Translation', and a 'Please click the line above, translate it and press the enter key' instruction. There is also a dropdown menu for 'Select browser language to edit' with 'en' selected. At the bottom, there are buttons for 'Add New Line', 'Delete Line', and 'Save'.

At the bottom of the interface, there are status indicators: 'Accounts 25', 'Online 0', 'Download 0 KB', and 'Upload 0 KB'.

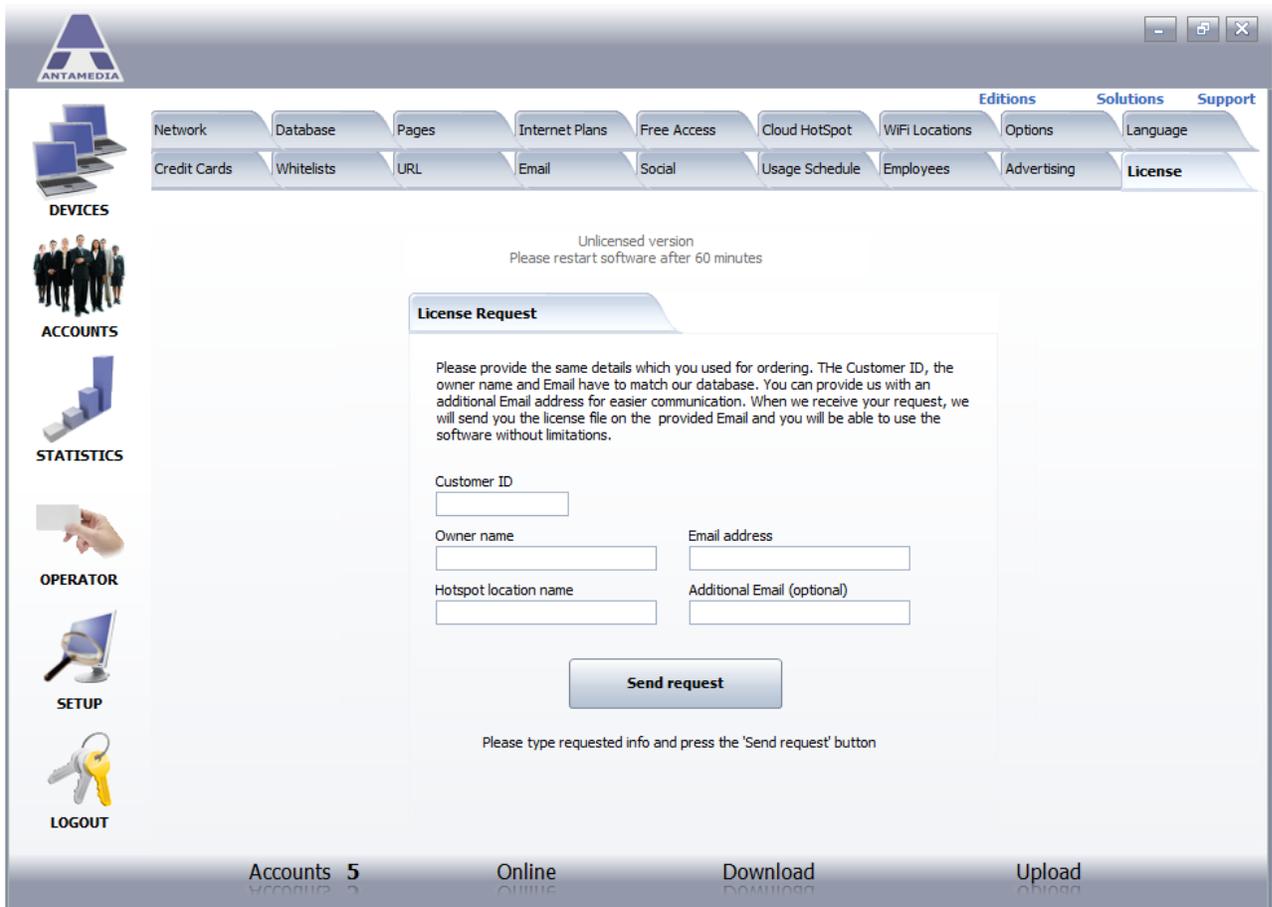
26 Licensing

After ordering software from our site <http://www.antamedia.com/buy/hotspot/> you will receive confirmation e-mail and informations about your Customer ID.

Go to HotSpot - Setup - License page. Click on Antamedia logo located in the center of the page



Fill in all required fields and click on 'Send Request' button



We will make your unique license and send it to specified e-mail address. If you have any issues with the license, please contact directly our sales department at sales@antamedia.com

27 HotSpot Billing Add-on

HotSpot Billing helps you introduce subscriptions, services, packages, promotions, bandwidth booster, dynamic bandwidth actions and keeps track of the customer monthly payments. It helps you perform automatic monthly charges and recurring billing.

27.1 Account Types

HotSpot Billing includes several account types:

PrePaid - Customers register for an username and password, payment is done up front. A customer then can use the account until time and/or bandwidth quota run out. The account can be refilled with quota and/or time using a refill-code.

PostPaid - A customer is issued an account with time and quota values defined by a price plan. The customer should be manually billed after time/quota are spent or at account expiry date. HotSpot always bills full price for the package, opposite to Usage Based accounts.

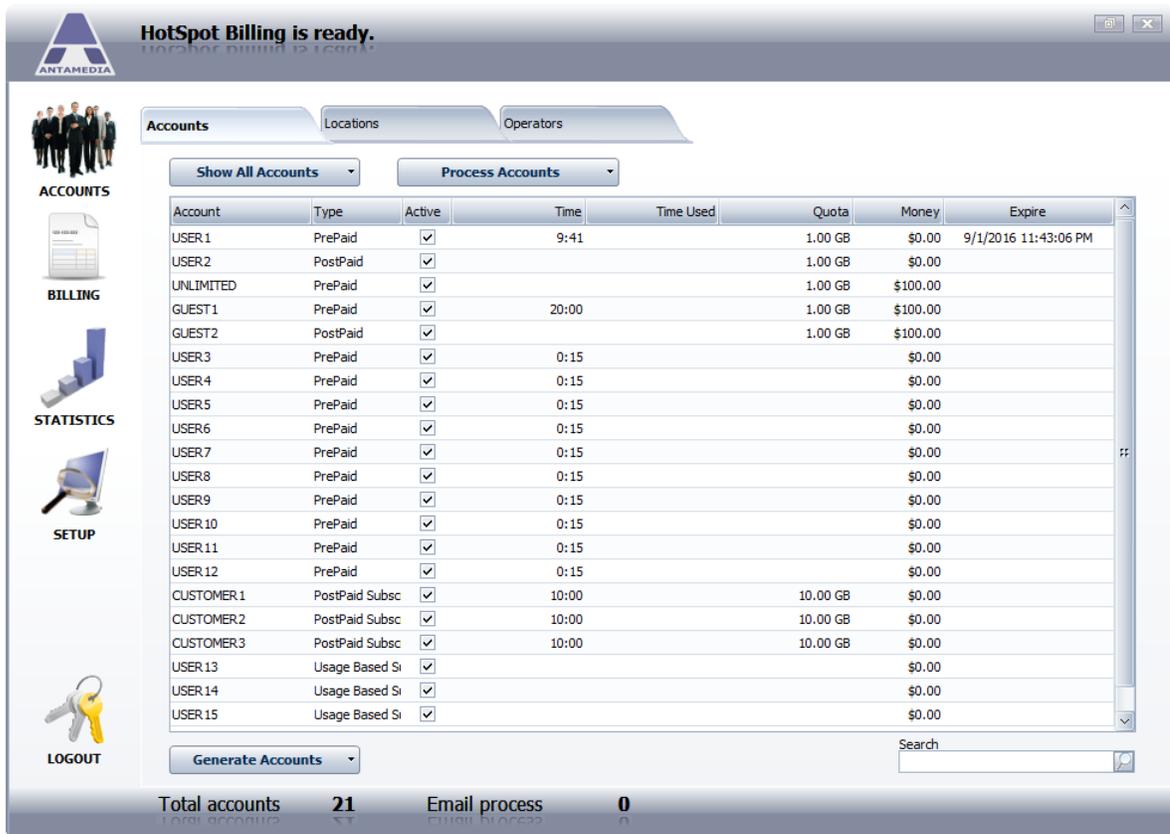
PostPaid Subscription - This type is best suited for long-term customers, at the end of each billing period HotSpot will automatically top-up or refill the account, and an invoice for previous period will be sent to customer's email address.

Usage Based - A postpaid option suitable for customers who need to be charged based on consumption. Account is created with 0 values for time and quota, and these are increased during usage. Customers can be manually billed later at desired time intervals.

Usage Based Subscription - Usage based subscription account type with automatic recurring billing at predefined periods. At the end of each period, account time and quota values are reset to 0 values.

Tickets - This type of account works exactly like a PrePaid account, except it uses alphanumeric code instead of username and password.

Refills - Refills are used to add more time or bandwidth quota to an already existing PrePaid user account or Ticket. Customers cannot use refill to login.



27.1.1 Generate Accounts

Generate Accounts option is located in **Accounts** tab available from the main screen this button opens a new screen used to create accounts. The same option is used to generate all types of accounts. HotSpot takes care to generate unique accounts, with settings defined by **Price Plan**. Each price plan has price, time, bandwidth quota, expiration date and other options. However, administrator or employee (with appropriate access rights) is able to modify any of the settings before generating accounts.

To generate new account(s), please follow these steps:

1. Next to **Generate** field type how many accounts you want to create
2. Select **Type** of account
3. Choose desired **Package**(price plan)
4. Set other needed options, see below for description
5. Click on **Generate** button
6. Click on **Save** button

If you need to create Subscription accounts with simple recurring billing, do not set **Billing Group** option, in that case HotSpot will bill the users and send the invoices per **Price Plan Billing Interval** option.

close panel [x]

Generate Accounts

Generate Accounts Options Customers

Generate: Accounts

Type: Locations: [Add Operator Locations](#)

Package:

Discount:

Account	Password
USER.20	DNMVH
USER.21	BK2LP
USER.22	QJEQZ
USER.23	KTKXR
USER.24	53LFR
USER.25	1Y7RR
USER.26	L6CNC
USER.27	RTY7T
USER.28	CR6MY
USER.29	6QTH2

Prefix:

Start Number:

Password Length:

New accounts should be sold: Sell Now Sell Later

Print

[I would like to modify pricing plans now](#)

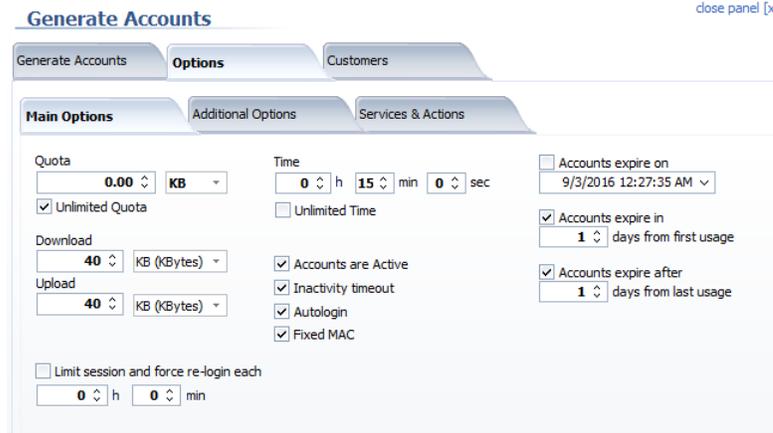
[I would like to modify print options](#)

Depending of **Type** selection, different options will appear on the screen:

- Package** Values from selected package will be applied to accounts. Each account type has separate set of packages.
- Billing Group** (Optional) Select what billing group subscription accounts will belong to. These groups define advanced subscription options, configured from Billing - Billing Groups page.
- Discount** Select the discount you want to apply to generated accounts.
- Locations** Choose in what locations account will be allowed to login.
- Prefix/Username** A word which comes as a first part of the generated account username (like NEW). This field also defines full username, in case that one account is generated.
- Start Number** Defines starting number to be added to prefix (like 21). With this examples, accounts that will be created are NEW21, NEW22, NEW23 etc.
- Password Length** Defines how many characters (letters and numbers) will a password have.
- Length** Defines how many characters (letters and numbers) will ticket or refill have.
- Sell Now** Accounts are saved in the database, sold and added to bills and statistics, and ready for use.
- Sell Later** Accounts are saved in the database, and will be sold on the first use or when operator clicks on **Sell** button in **Accounts** page.
- Print** HotSpot will print all generated accounts by default, 12 accounts per sheet. Note that if you disable this option, later it is not possible to print multiple accounts on one sheet of paper.

27.1.2 Generate Options

Generate options are automatically filled in when you choose a price plan. However, if you like to modify some option (like increase download for next 10 accounts you make) you can do it using Options page.



Main options

Quota	Total bandwidth traffic available to a user for downloading or uploading. It is usually displayed MB, GB or TB depending on value.
Unlimited Quota	Enable this option if you do not wish to limit users by bandwidth quota.
Time	Time available for Internet usage. It is measured in seconds.
Unlimited Time	Enable this option if you do not wish to limit users by time. It is useful if you charge users by bandwidth or users pay monthly fees.
Download	Download rate limitation. Download rate can be displayed in: KBytes, Kbits, MBytes or Mbits. Like 1 Mbit/s
Upload	Upload rate limitation.
Accounts expire on	Set the date when account expires.
Accounts expire in _ days from first usage	Number of days in which will account expire from the first login.
Accounts expire in _ days from last usage	Number of days in which will account expire from the last login.
Accounts are Active	Disabled option means that generated accounts can not be used for login until they are activated.
Inactivity timeout	Automatically disconnects the users from the Internet after specified time of inactivity.
Autologin	Enable Autologin feature for accounts.
Fixed MAC	Limit an account so it can login only from the devices you specify.

Limit session and force re-login each HotSpot will stop Internet service for customer after specified time interval and force him to login again.

Additional options

Bandwidth quota daily limit Total bandwidth traffic available to user on daily basis. When all daily quota is used, user can login on the next day.

Limit number of daily logins Limit how many times user can login on daily basis.

Bandwidth quota monthly limit Total bandwidth traffic available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.

Limit daily time usage Total time available for Internet usage on daily basis. When all daily time is used, user can login on the next day.

Limit monthly time usage Total time available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.

Multilogin with maximum _ simultaneous logins Multilogin option allows more than one user (device) to login with the same account. Users sharing one account also share total download and upload rate. For example, 100 KB/s can be used by one user, or it can be used for 10 users to have approximately 10 KB/s each.

Accounts are valid for Chooses which Antamedia programs can use generated accounts.

Enable Usage schedule - days and time for account login Specify time period when accounts can login. Day and time rules are defined in HotSpot - Setup - Usage Schedule page. This option can be used for example to allow login for account from 8AM to 8PM, or only on weekends, or to force the users to logout at midnight.

Services & Actions

Accounts use selected services Use this option to set additional services for new accounts. You can define services from Billing - Services page and optionally integrate services with a price plan into a package, under Billing - Packages page.

Dynamic Bandwidth Action Set this option if you want to apply a fair-use policy to new accounts. These policies can be defined from Billing - Bandwidth Actions page.

27.1.3 Subscriptions

Subscriptions tab will be available only if postpaid sub. or usage based sub. price plan is selected. Subscription list enables easier overview of all account items and their prices, it shows the selected price plan and all additional services, regular and promo prices (if configured). Below this list you can see regular total price and total price reduced for promotion amount.

Generate Accounts close panel [x]

Generate Accounts Options **Subscriptions** Customers

Subscription List

Type	Name	Regular Price	Promo	Promo Price	Promo expire	Base Fee	S
Price Plan	10 Hours & 10GB Subscription	\$10.00	<input type="checkbox"/>				

SUBSCRIPTION REGULAR TOTAL: **\$10.00**

SUBSCRIPTION PROMO TOTAL: **\$0.00**

Next Renew Date

Auto Charge (over credit card)

27.1.4 Customer Details

The ability to edit information about multiple customers at once can be quite useful, this operation can be done during account generation, from Customers tab. You can use it to set common information for multiple accounts, like Company, Country, Postal code etc.

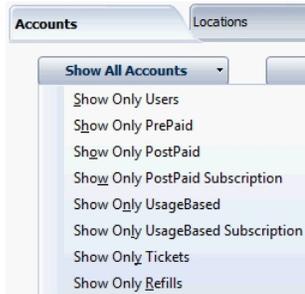
Generate Accounts close panel [x]

Generate Accounts Options **Customers**

<p>Company <input type="text" value="Antamedia"/></p> <p>First Name <input type="text" value="Marc"/></p> <p>Last Name <input type="text" value="Evans"/></p> <p>Address <input type="text"/></p> <p>City <input type="text"/></p> <p>Postal Code <input type="text"/></p> <p>State <input type="text"/></p> <p>Country <input type="text"/></p> <p>Phone <input type="text"/></p> <p>Mobile <input type="text"/></p> <p><input type="checkbox"/> Send SMS Reminders</p> <p>Email <input type="text"/></p> <p>Email <input type="text"/></p> <p><input type="checkbox"/> Send Email Reminders</p>	<p>Gender <input checked="" type="checkbox"/> Male <input type="checkbox"/> Female</p> <p>Birthday <input type="text"/></p> <p>Credit Card <input type="text"/></p> <p>Number <input type="text"/></p> <p><input type="checkbox"/> Show number</p> <p>Security Code (CVV2) <input type="text"/></p> <p>Name on card <input type="text"/></p> <p>Expiry Date Month <input type="text" value="0"/> Year <input type="text" value="0"/></p>
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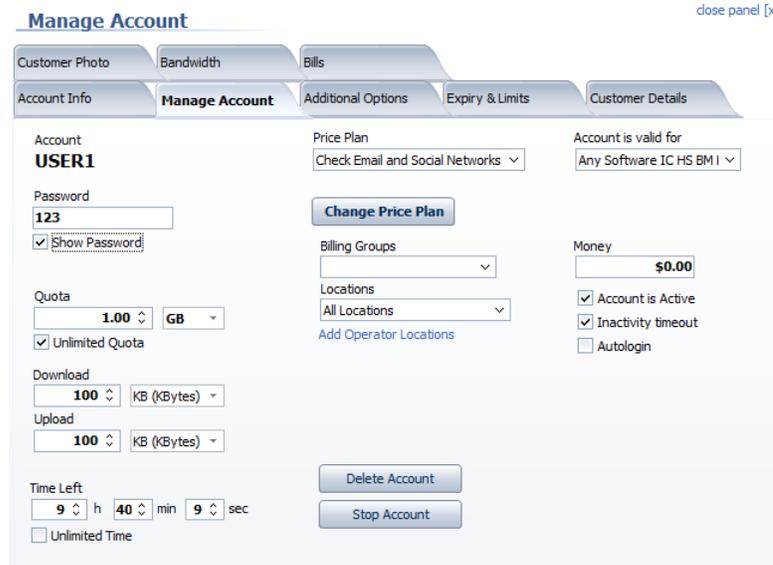
27.1.5 Managing Accounts

From the **Accounts** section you can create, modify or delete user accounts and manage Operators. List of all user accounts is displayed under **Accounts** tab, to filter the view by account type, press the arrow on **Show All Accounts** button.



After clicking on **Process Accounts** button, the application will check all accounts in order to prepare invoices, update speeds based on dynamic bandwidth options, send upgrade offers etc. By default, Hotspot Billing will process accounts automatically at one hour periods, this setting can be modified from Setup - Options - Account Processing page.

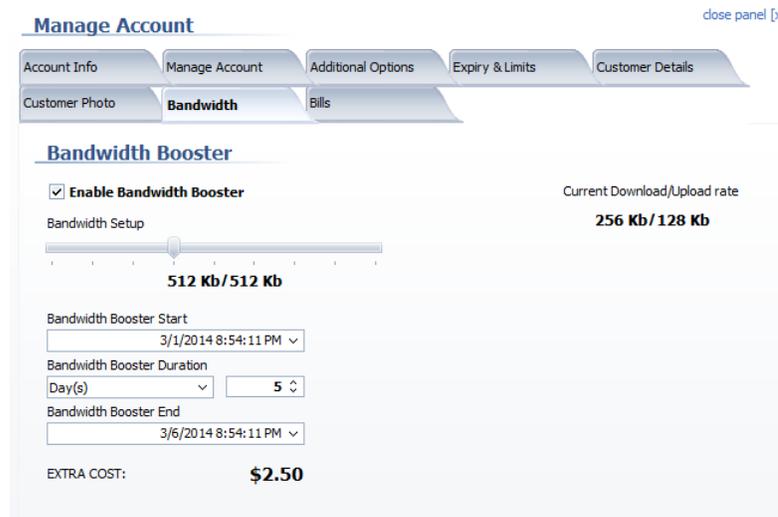
To change settings of an account, click **Show All Accounts** button and select account from the list. If there are many accounts, please use the search field in bottom right corner.



Under the **Account Info** tab you can check user's current time and bandwidth usage, print the account on paper or export it to other formats like pdf, csv, html and many other. From this screen you can also refill the account if needed. From **Manage Account**, **Additional Options** and **Expiry&Limits** screens you can change some account properties that were set at the time it was generated.

To configure account settings related to [Bandwidth Booster](#)¹⁸⁷ feature, click on the **Bandwidth** tab. Please follow these steps to set this option:

1. Tick **Enable Bandwidth Booster** checkbox
2. Move the slider to desired Download/Upload speed
3. Choose start time using **Bandwidth Booster Start** field
4. Set desired boost duration in days or hours
5. **Bandwidth Booster End** time will be automatically set, based on duration
6. Click **Save** button



The screenshot shows the 'Manage Account' interface with the 'Bandwidth' tab selected. The 'Bandwidth Booster' section is active, featuring a checked 'Enable Bandwidth Booster' checkbox. Below it is a 'Bandwidth Setup' slider set to '512 Kb / 512 Kb'. To the right, the 'Current Download/Upload rate' is displayed as '256 Kb / 128 Kb'. The 'Bandwidth Booster Start' is set to '3/1/2014 8:54:11 PM'. The 'Bandwidth Booster Duration' is set to '5' days. The 'Bandwidth Booster End' is set to '3/6/2014 8:54:11 PM'. At the bottom, the 'EXTRA COST' is listed as '\$2.50'. Navigation tabs include 'Account Info', 'Manage Account', 'Additional Options', 'Expiry & Limits', 'Customer Details', 'Customer Photo', 'Bandwidth', and 'Bills'. A 'close panel [x]' link is visible in the top right corner.

27.1.6 User Invoices

From **Bills** screen you can review and manage the items added to usage based account or bill a postpaid user. When you generate a postpaid account invoice will be also generated automatically with billing date set same as account expiry date. On that date you can manually charge the user, after that press **Pay Invoice** button in order to record the sale.

close panel [x]

Manage Account

Account Info | Manage Account | Additional Options | Expiry & Limits | Customer Details

Customer Photo | Bandwidth | **Bills**

Bills List

Items added on the user account which should be manually billed on the specified date

Type	Description	Date Added	Billing Date	Total

Pay Invoice
Delete Item

Print and send invoice to your customer: find an invoice, select it and click the print button

Bill No.	Date Added	Total
2/2016	8/3/2016	\$20.00

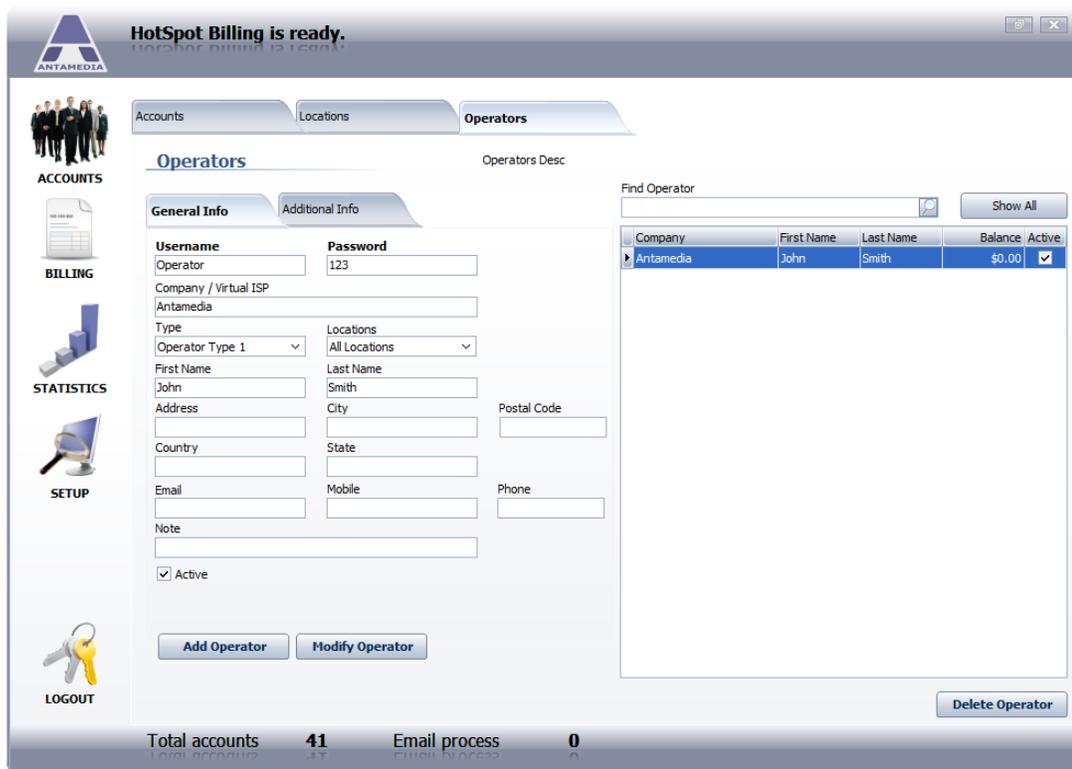
Date Range
Today
From 8/3/2016 To 8/3/2016
Show
Print

20.00

27.2 Billing Operators

Hotspot Billing allows you to create a network of sub-operators who can help to expand the customer base, promote your business and get a share of the profits in return. Any person or small business can join your infrastructure using an Access Point, and act under their own brand as described in [Locations](#) section. Starting from Hotspot version 4 sub-operators can connect over the Internet using an OpenWRT or MikroTik router.

From this screen you can create, modify or delete the operator accounts. To create a new Operator account, enter the required details (username, password, company, first name and last name) and click **Add Operator** button.



The screenshot shows the 'Operators' management page in the Antamedia HotSpot Billing interface. The page title is 'HotSpot Billing is ready.' and the breadcrumb navigation is 'Accounts > Locations > Operators'. The left sidebar contains navigation icons for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT. The main content area is divided into 'General Info' and 'Additional Info' tabs. The 'General Info' tab contains the following form fields:

- Username:** Operator
- Password:** 123
- Company / Virtual ISP:** Antamedia
- Type:** Operator Type 1 (dropdown)
- Locations:** All Locations (dropdown)
- First Name:** John
- Last Name:** Smith
- Address:** (empty)
- City:** (empty)
- Postal Code:** (empty)
- Country:** (empty)
- State:** (empty)
- Email:** (empty)
- Mobile:** (empty)
- Phone:** (empty)
- Note:** (empty)
- Active

At the bottom of the form are buttons for 'Add Operator' and 'Modify Operator'. To the right of the form is a table titled 'Operators Desc' with a search bar and a 'Show All' button. The table contains one entry:

Company	First Name	Last Name	Balance	Active
Antamedia	John	Smith	\$0.00	<input checked="" type="checkbox"/>

At the bottom right of the page is a 'Delete Operator' button. A status bar at the bottom of the interface shows 'Total accounts 41' and 'Email process 0'.

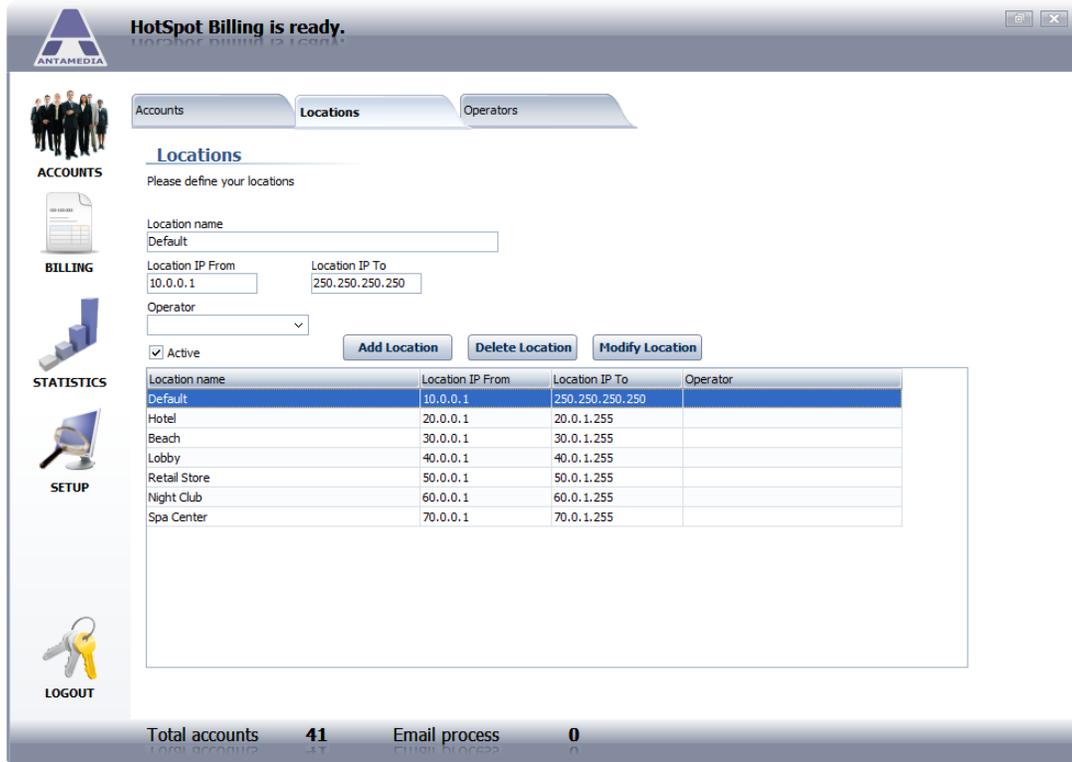
27.3 Billing Locations

This feature can be used to create Virtual ISP – any person or small business can join your network with an Access Point and act under their own brand (using different page groups like login, welcome, etc) while sharing your infrastructure. Such Virtual ISP starts a venture with minimal investment, and are motivated to look for a new customers and build a network. You can share a profit with such partners, in exchange of providing the software solution for control, billing and the Internet access.

Locations are based on IP addresses of the end-users as seen from the **Computers** screen in Hotspot. Ensure that your partners are not using the same IP address ranges for customers, otherwise locations will not work properly. Also it is highly recommended to disable NAT in any device (WiFi router, access point, wired router, wireless controller etc.) between Hotspot server and the end-user.

To define a new location, please follow these steps:

1. Enter **Location name**
2. Define the location IP address range using **Location IP from** and **Location IP to** fields
3. Select who is the **Operator** of this location
4. Make sure that **Active** option is checked
5. Click **Add Location** button



HotSpot Billing is ready.

Accounts **Locations** Operators

Locations
Please define your locations

Location name: Default

Location IP From: 10.0.0.1 Location IP To: 250.250.250.250

Operator: [Dropdown]

Active **Add Location** **Delete Location** **Modify Location**

Location name	Location IP From	Location IP To	Operator
Default	10.0.0.1	250.250.250.250	
Hotel	20.0.0.1	20.0.1.255	
Beach	30.0.0.1	30.0.1.255	
Lobby	40.0.0.1	40.0.1.255	
Retail Store	50.0.0.1	50.0.1.255	
Night Club	60.0.0.1	60.0.1.255	
Spa Center	70.0.0.1	70.0.1.255	

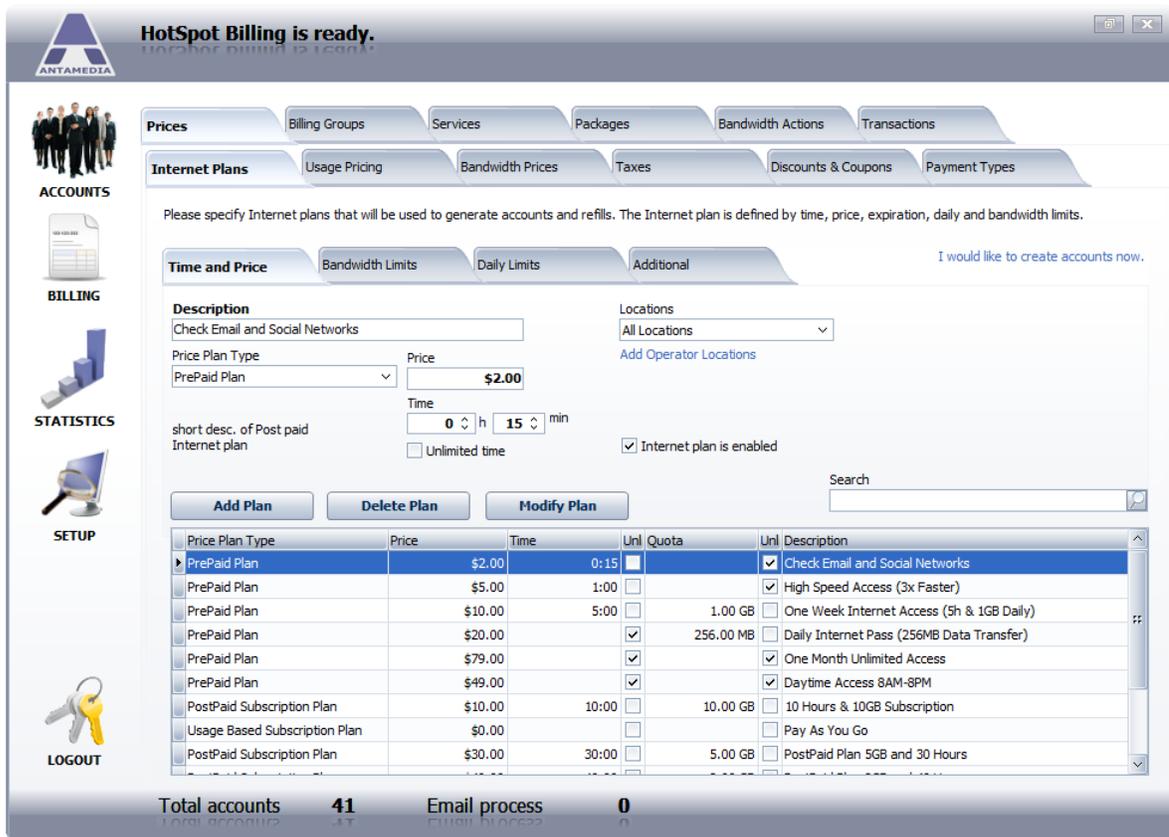
Total accounts: **41** Email process: **0**

27.4 Billing Prices

27.4.1 Price Plans

Price plan is a predefined set of limits and options which are assigned when you generate or refill accounts. For example, price plan defines price which customer should pay for specified time usage, data transferred, download and upload rate, but may also define the expiration date, daily limits etc. When you generate user accounts, tickets and refills, the values defined by price plan are stored in database for each account. If you refill an account with a price plan, time and quota values are added to the current account values. If a price plan has unlimited settings for time and quota, an account will also become unlimited for these values. Download and upload rate, the expiration date and other values defined by price plan used for refill, are assigned to the account no matter which values the account has had before. Note that plans created for one account type cannot be used for other types.

HotSpot Billing creates default price plans on first run so you can have a better idea of the possibilities. You can modify them, or create totally new price plans. The number of price plans in database is not limited. To define a new plan, enter the name, price and set desired limits, then click Add Plan button.



HotSpot Billing is ready.

Prices | Billing Groups | Services | Packages | Bandwidth Actions | Transactions

Internet Plans | Usage Pricing | Bandwidth Prices | Taxes | Discounts & Coupons | Payment Types

Please specify Internet plans that will be used to generate accounts and refills. The Internet plan is defined by time, price, expiration, daily and bandwidth limits.

Time and Price | Bandwidth Limits | Daily Limits | Additional I would like to create accounts now.

Description: Check Email and Social Networks
Price Plan Type: PrePaid Plan
Price: \$2.00
Time: 0 h 15 min
 Unlimited time
 Internet plan is enabled

Locations: All Locations
[Add Operator Locations](#)

Buttons: Add Plan | Delete Plan | Modify Plan

Price Plan Type	Price	Time	Unl	Quota	Unl	Description
PrePaid Plan	\$2.00	0:15	<input type="checkbox"/>		<input checked="" type="checkbox"/>	Check Email and Social Networks
PrePaid Plan	\$5.00	1:00	<input type="checkbox"/>		<input checked="" type="checkbox"/>	High Speed Access (3x Faster)
PrePaid Plan	\$10.00	5:00	<input type="checkbox"/>	1.00 GB	<input type="checkbox"/>	One Week Internet Access (5h & 1GB Daily)
PrePaid Plan	\$20.00		<input checked="" type="checkbox"/>	256.00 MB	<input type="checkbox"/>	Daily Internet Pass (256MB Data Transfer)
PrePaid Plan	\$79.00		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	One Month Unlimited Access
PrePaid Plan	\$49.00		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Daytime Access 8AM-6PM
PostPaid Subscription Plan	\$10.00	10:00	<input type="checkbox"/>	10.00 GB	<input type="checkbox"/>	10 Hours & 10GB Subscription
Usage Based Subscription Plan	\$0.00		<input type="checkbox"/>		<input type="checkbox"/>	Pay As You Go
PostPaid Subscription Plan	\$30.00	30:00	<input type="checkbox"/>	5.00 GB	<input type="checkbox"/>	PostPaid Plan 5GB and 30 Hours

Total accounts: 41 **Email process:** 0

Price plan options available under Billing - Prices - Price Plans page:

Time and Price

Description	Description is displayed in list from where operator chooses which price plan to select
Locations	Choose in what locations account will be allowed to login.
Price Plan Type	Select what account type will be generated with this plan. You can check account type descriptions from Account Types ^[172] page.
Price	Cost of selected price plan. If tax is not specified, this is what customer pays.
Unlimited Time	Enable this option if you do not wish to limit users by time. It is useful if you charge users by bandwidth or users pay monthly fees
Time	Time available for the Internet usage. It is measured in hours and minutes.
Price plan is enabled	If selected price plan is active and can be used for account generating.
Accounts expires in _ days from first usage	Number of days in which will an account expire from the first login. For example, if you set to 10 days, and a user will not be able to login on 11th day from first login
Accounts expires in _ days from last usage	Number of days in which will an account expire from the last login. For example, if you set to 10 days, and a user does not login in the next 11 days, the account will expire
Bandwidth Limits	
Bandwidth Quota	Total bandwidth traffic available to a user for downloading or uploading. It is usually displayed MB, GB or TB depending on value.
Unlimited Quota	Enable this option if you do not wish to limit users by bandwidth quota.
Download	Download rate limitation. Download rate can be displayed in: KBytes, Kbits, MBytes or Mbits. Like 1 Mbit/s.
Upload	Upload rate limitation.
Bandwidth quota daily limit	Total bandwidth traffic available to user on daily basis. When all daily quota is used, user can login on the next day, this limit is reset at 12:00AM.
Bandwidth quota monthly limit	Total bandwidth traffic available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
Use Dynamic Bandwidth Actions	Set this option if you want to apply a fair-use policy for the accounts. These policies can be defined from Billing - Bandwidth Actions page.
Daily Limits	
Limit daily time usage	Total time available for Internet usage on daily basis. When all daily time is used, user can login on the next day.
Limit monthly time usage	Total time available to user per month. When this option is turned on, it will apply to the rest of the current month, not to the next 30 days.
Limit number of daily logins	Limit how many times user can login on daily basis.

Multilogin with maximum _ simultaneous logins	Multilogin option allows more than one user (computer) to login with the same account. Users sharing one account also share total download and upload rate. For example, 100 KB/s can be used by one user, or it can be used for 10 users to have approximately 10 KB/s each.
Accounts expire in _ days from first usage	Number of days in which will account expire from the first login. For example, if you set to 10 days, and user will not be able to login on 11th day from first login.
Accounts expire in _ days from last usage	Number of days in which will account expire from the last login. For example, if you set to 10 days, and user does not login in the next 11 days, account will expire.
Price Plan is available in Additional	Chooses which Antamedia programs can use this price plan.
After recurring refill type:	
Automatic refill	Account will be refilled at the end of billing period. This means that full amount of time and quota for this plan will be added to account, allowing the user to accumulate amount over time.
Automatic top-up	Account will be topped up at the end of billing period. This means that full amount of time and quota will be added to account only if user depleted them. Accumulation over time is not allowed.
Promotional Plan	Select this option to enable promotional price for a certain period, you can choose exact end date or set period in days, weeks, months or years.
After expiration of time or bandwidth	Choose which action will take place if user depletes time and/or bandwidth:
Service refill	Account will be refilled with extra time and/or bandwidth using a service refill option, price for this service will be automatically added to user's bill.
Overuse charges	If user spends all time/quota before billing interval ends and wants to continue using service, additional time/quota will be charged per Usage Pricing rates.
Billing Interval	This option is available only for subscription based price plans (postpaid, usage based). First select time Base Unit in days, weeks, months or years and choose after how many time units user will be billed.

27.4.2 Usage Pricing

Usage-based billing enables you to create user accounts which have values 0 for time and quota, they are increased during usage. At the end of desired billing period customers can be billed based on spent time and/or bandwidth quota. You can also use these rates for charging postpaid users who have exceeded the default quota for their price plan (overuse charges).

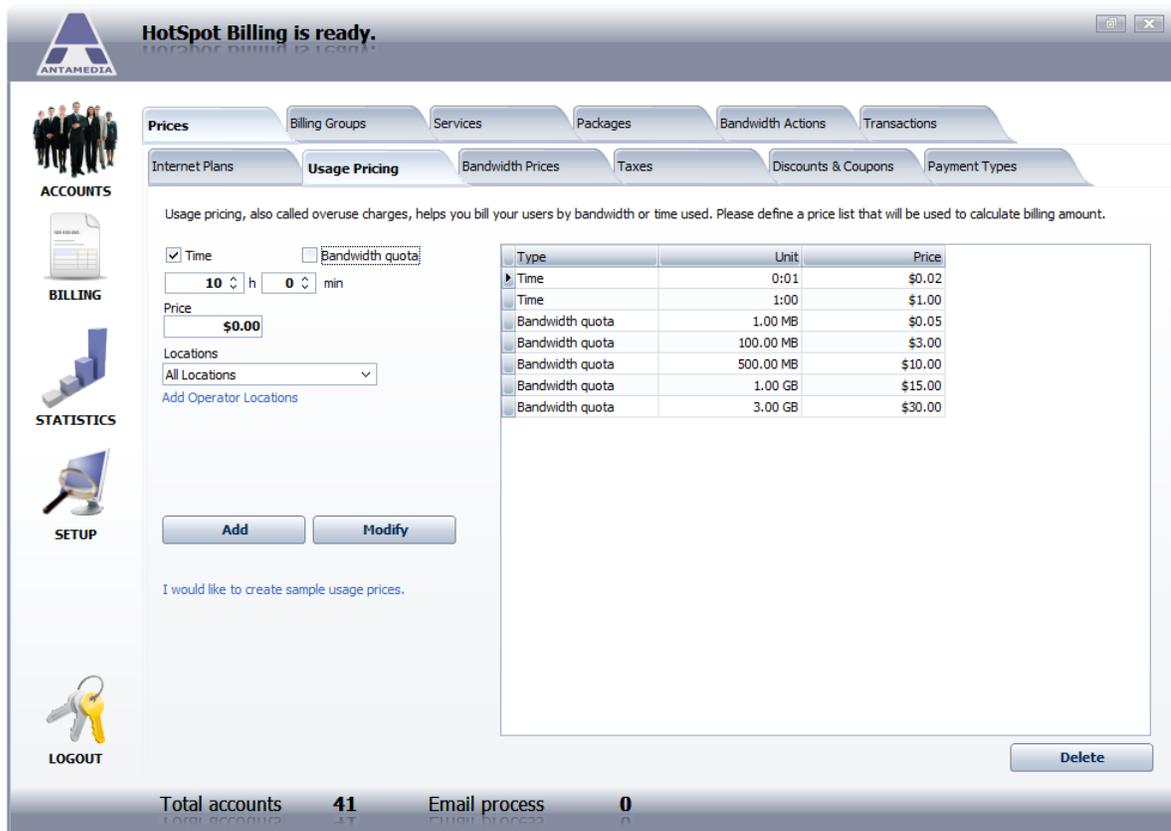
Usage based pricing uses all rates you have defined, for better explanation please refer to the following example.

Rates are set this way: 100Mb for 1\$, 500Mb for 4.50\$ and 1000Mb for 8\$.

With these rates user will be billed 1\$ per 100Mb for usage 0-499Mb, 0.9\$ per 100Mb for usage 500-999Mb and 0.8\$ per 100Mb for all usage exceeding 1000Mb.

To configure a new pricing rate, go to HotSpot - Setup - Prices - Usage Pricing page:

1. Check **Bandwidth** or **Time** box to select type
2. Set desired amount
3. Set desired price
4. Click **Add** button



The screenshot shows the 'Usage Pricing' configuration page in the Antamedia HotSpot Billing interface. The page title is 'HotSpot Billing is ready.' and the breadcrumb path is 'HotSpot Billing > Setup > Prices > Usage Pricing'. The left sidebar contains navigation icons for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT. The main content area has tabs for 'Prices', 'Billing Groups', 'Services', 'Packages', 'Bandwidth Actions', and 'Transactions'. Under the 'Prices' tab, there are sub-tabs for 'Internet Plans', 'Usage Pricing', 'Bandwidth Prices', 'Taxes', 'Discounts & Coupons', and 'Payment Types'. The 'Usage Pricing' sub-tab is active, showing a form with the following fields:

- Time (selected) and Bandwidth quota
- Time: 10 h, 0 min
- Price: \$0.00
- Locations: All Locations (dropdown menu)
- [Add Operator Locations](#)
- and
- [I would like to create sample usage prices.](#)

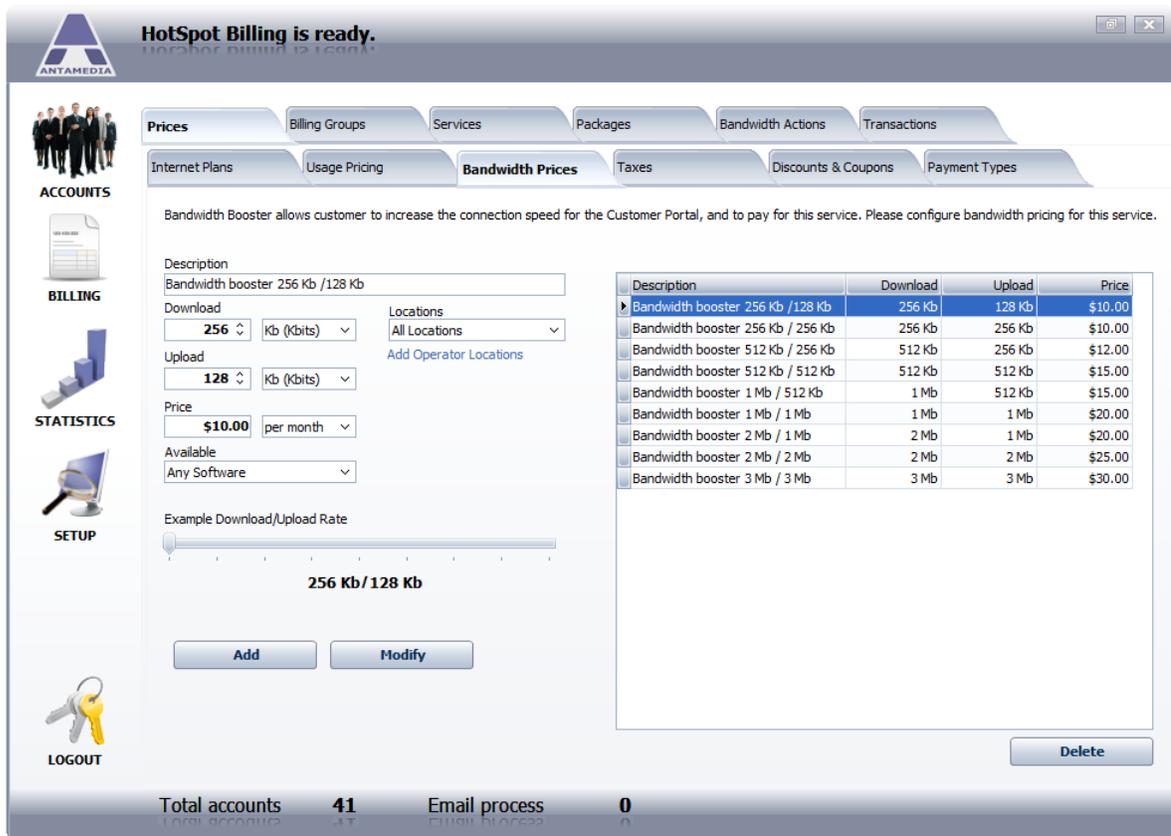
 On the right side, there is a table listing existing pricing entries:

Type	Unit	Price
Time	0:01	\$0.02
Time	1:00	\$1.00
Bandwidth quota	1.00 MB	\$0.05
Bandwidth quota	100.00 MB	\$3.00
Bandwidth quota	500.00 MB	\$10.00
Bandwidth quota	1.00 GB	\$15.00
Bandwidth quota	3.00 GB	\$30.00

 At the bottom right of the table area is a button. At the bottom of the page, there is a status bar showing 'Total accounts 41' and 'Email process 0'.

27.4.3 Bandwidth Prices

Hotspot Billing allows your customers to temporarily increase download and upload speed for their account, they can do this by themselves, using the **Booster** option from the **Customer Portal** page which customer can access by pressing **Account** button in the **Welcome** page. Price for increased bandwidth speed will be automatically added to customer's bill. Hotspot administrator can also increase bandwidth for an user account using Hotspot Billing application, it is done from the **Accounts** section (select the account and go to **Bandwidth** tab). You can define prices for **Bandwidth Booster** feature under the Billing - Prices - Bandwidth Prices tab.



HotSpot Billing is ready.

Prices | Billing Groups | Services | Packages | Bandwidth Actions | Transactions

Internet Plans | Usage Pricing | **Bandwidth Prices** | Taxes | Discounts & Coupons | Payment Types

Bandwidth Booster allows customer to increase the connection speed for the Customer Portal, and to pay for this service. Please configure bandwidth pricing for this service.

Description: Bandwidth booster 256 Kb / 128 Kb

Download: 256 Kb (Kbits) | Locations: All Locations

Upload: 128 Kb (Kbits) | Add Operator Locations

Price: \$10.00 per month

Available: Any Software

Example Download/Upload Rate: 256 Kb / 128 Kb

Description	Download	Upload	Price
Bandwidth booster 256 Kb / 128 Kb	256 Kb	128 Kb	\$10.00
Bandwidth booster 256 Kb / 256 Kb	256 Kb	256 Kb	\$10.00
Bandwidth booster 512 Kb / 256 Kb	512 Kb	256 Kb	\$12.00
Bandwidth booster 512 Kb / 512 Kb	512 Kb	512 Kb	\$15.00
Bandwidth booster 1 Mb / 512 Kb	1 Mb	512 Kb	\$15.00
Bandwidth booster 1 Mb / 1 Mb	1 Mb	1 Mb	\$20.00
Bandwidth booster 2 Mb / 1 Mb	2 Mb	1 Mb	\$20.00
Bandwidth booster 2 Mb / 2 Mb	2 Mb	2 Mb	\$25.00
Bandwidth booster 3 Mb / 3 Mb	3 Mb	3 Mb	\$30.00

Buttons: Add, Modify, Delete

Total accounts: 41 | Email process: 0

27.4.4 Taxes

If you are required to charge tax for your services, HotSpot Billing offers flexible tax setup. There are 3 different taxes to configure with tax on tax option.

Tax configuration examples:

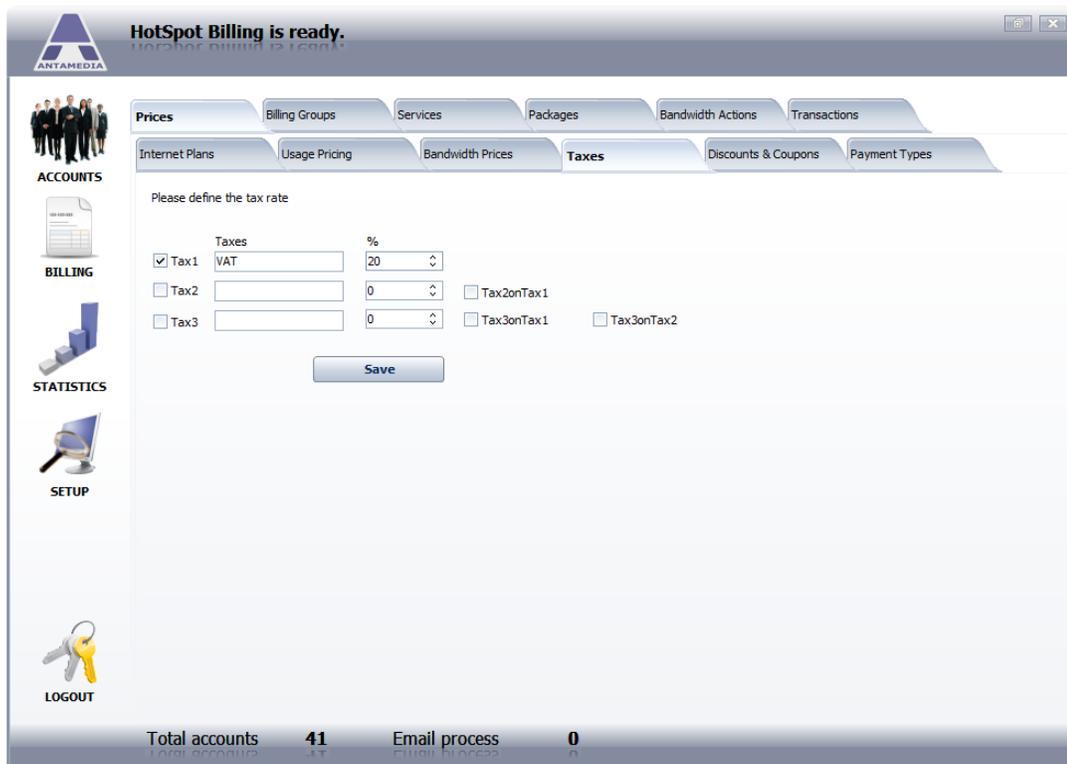
If you have single tax to charge:

1. enable **Tax1** and name it (like VAT)
2. configure **%** value
3. press **Save** button

If you have two different taxes to charge:

1. enable **Tax1**, name it (like VAT)
2. configure **%** value
3. enable **Tax2**, name it
4. configure **%** value
5. press **Save** button

If your country regulation requires second tax to be calculated as percent from the value of the first tax, please enable Tax2 on Tax1.



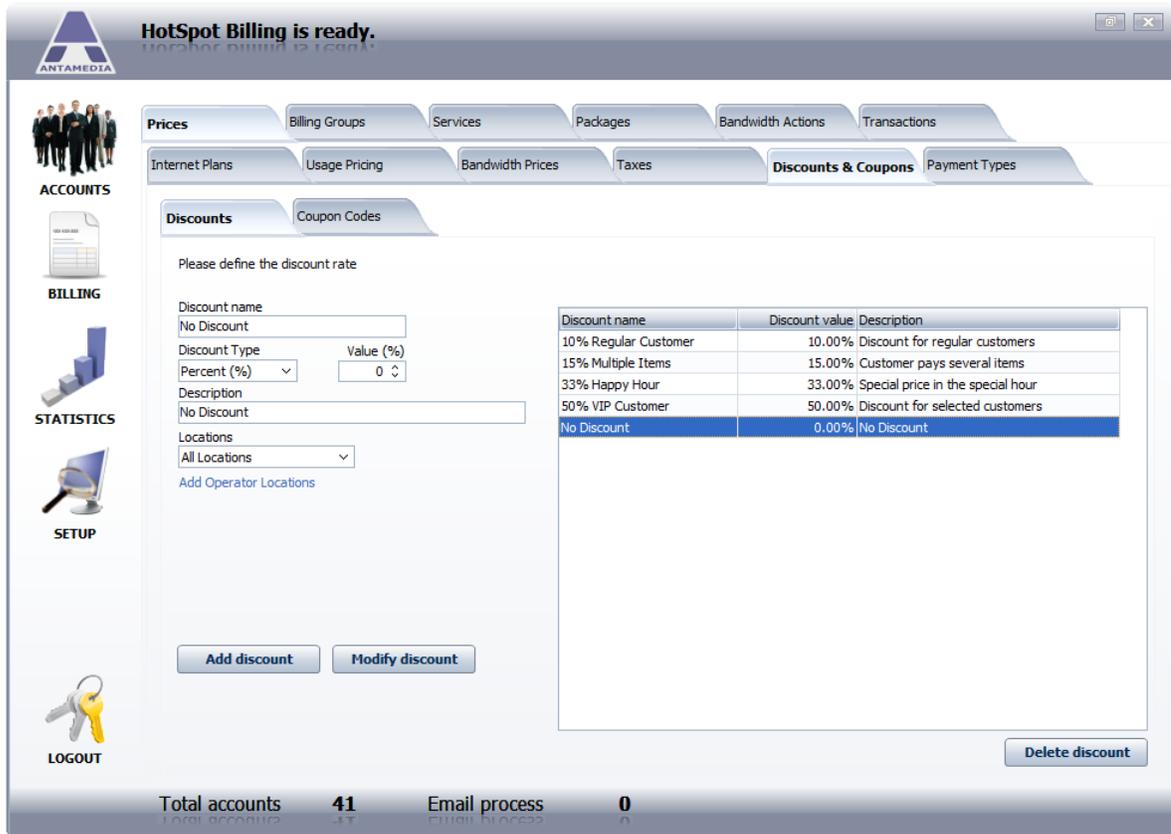
27.4.5 Discounts & Coupons

Discount feature helps you to offer the discounts when there is a need for it. You can offer a discount to your regular customers, for buying 10 tickets in advance, for daily promotions or similar reasons.

Under the Billing - Prices - Discounts & Coupons page please define different discount types. To define a discount:

1. Enter discount **name**
2. Specify discount **percent** (like 10 %)
3. Enter discount **description**
4. Set at what **locations** discount will be available
5. Press **Save** button

Coupons are similar to discounts, but they have two additional options: discount with fixed amount (for example 10\$ that can be applied to any price plan regardless of its price) and time limited discount (for example you can grant discount for first 3 months if user signs 1 year contract).



HotSpot Billing is ready.

Navigation: Prices, Billing Groups, Services, Packages, Bandwidth Actions, Transactions, Internet Plans, Usage Pricing, Bandwidth Prices, Taxes, **Discounts & Coupons**, Payment Types

Sub-navigation: Discounts, Coupon Codes

Please define the discount rate

Discount name:

Discount Type: Value (%):

Description:

Locations:

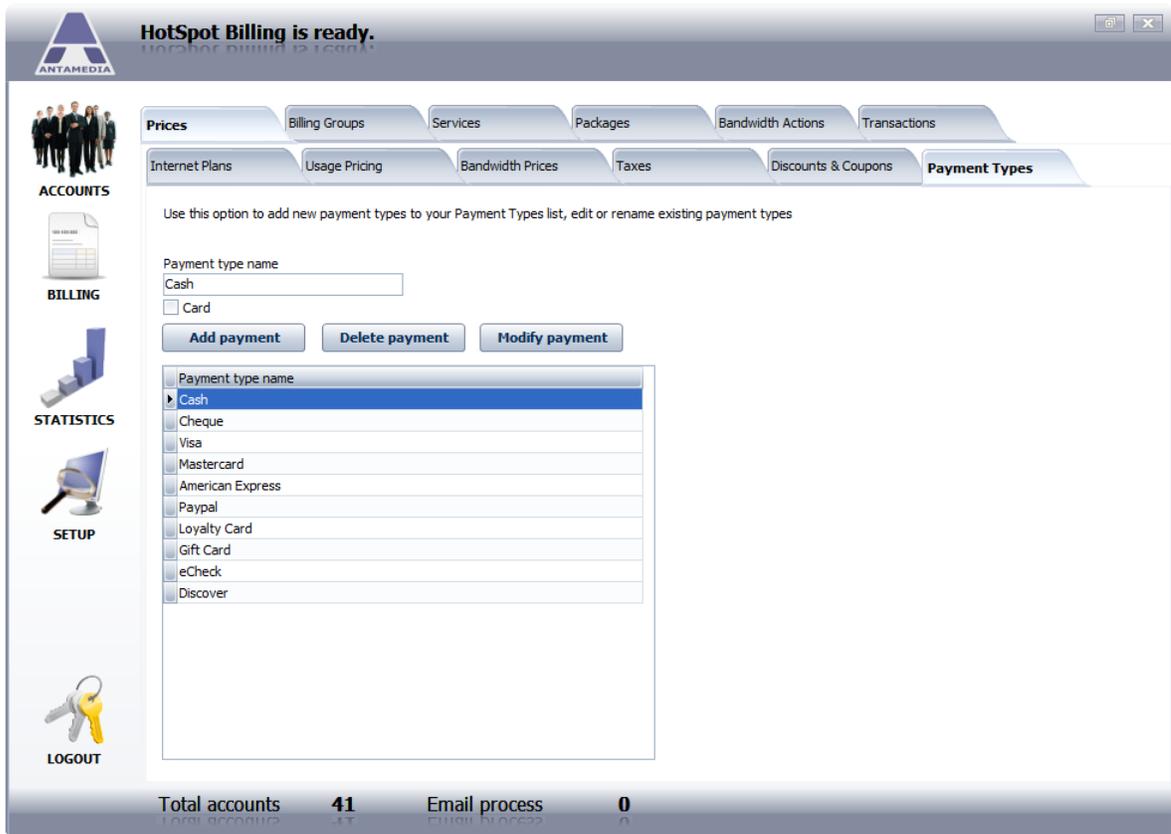
[Add Operator Locations](#)

Discount name	Discount value	Description
10% Regular Customer	10.00%	Discount for regular customers
15% Multiple Items	15.00%	Customer pays several items
33% Happy Hour	33.00%	Special price in the special hour
50% VIP Customer	50.00%	Discount for selected customers
No Discount	0.00%	No Discount

Summary: Total accounts: 41, Email process: 0

27.4.6 Payment Type

From Payment Types tab you can easy manage currently available Payment types, Add payment, Delete payment or Modify payments.



The screenshot shows the Antamedia HotSpot Billing Add-on interface. At the top, it says "HotSpot Billing is ready." Below this is a navigation menu with tabs for "Prices", "Billing Groups", "Services", "Packages", "Bandwidth Actions", and "Transactions". Underneath, there are sub-tabs for "Internet Plans", "Usage Pricing", "Bandwidth Prices", "Taxes", "Discounts & Coupons", and "Payment Types".

On the left side, there is a vertical menu with icons and labels for "ACCOUNTS", "BILLING", "STATISTICS", "SETUP", and "LOGOUT".

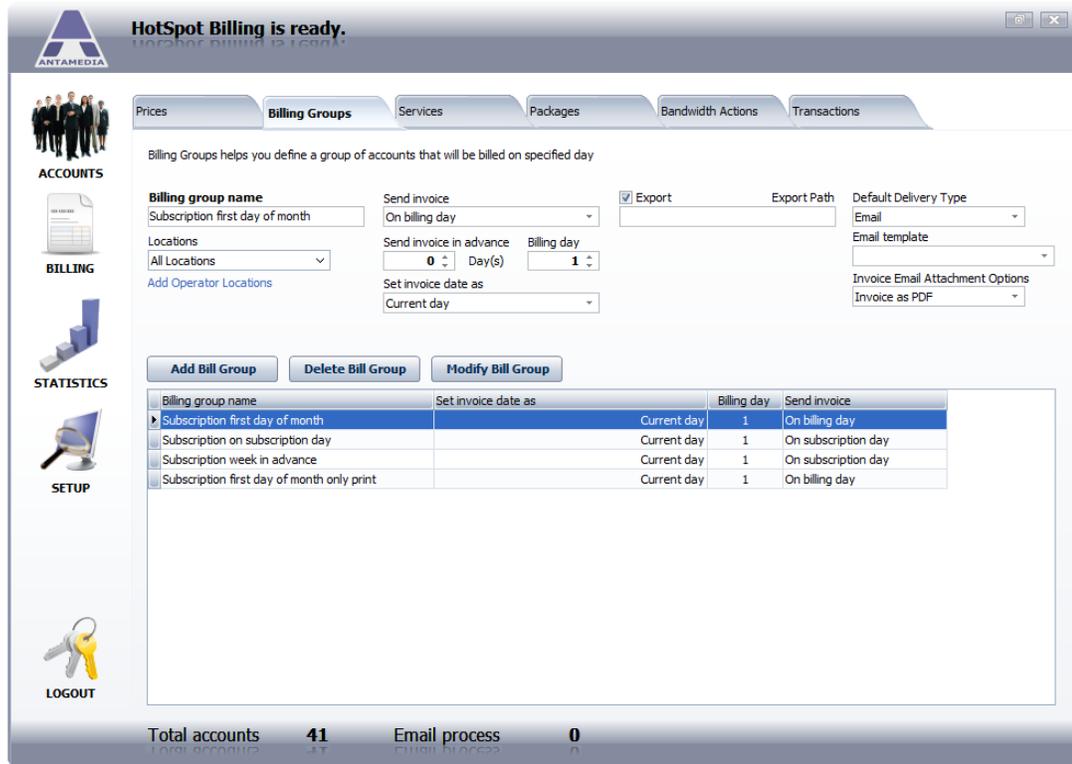
The main content area is titled "Payment Types" and contains the following elements:

- A heading: "Use this option to add new payment types to your Payment Types list, edit or rename existing payment types"
- A text input field for "Payment type name" with the value "Cash".
- A checkbox labeled "Card".
- Three buttons: "Add payment", "Delete payment", and "Modify payment".
- A list box titled "Payment type name" containing the following items:
 - Cash (selected)
 - Cheque
 - Visa
 - Mastercard
 - American Express
 - Paypal
 - Loyalty Card
 - Gift Card
 - eCheck
 - Discover

At the bottom of the interface, there is a status bar showing: "Total accounts 41", "Email process 0", and "Full process 0".

27.5 Billing Groups

Billing groups help you define a group of accounts that will be billed on specified day. From Billing - Groups page you can **Add Bill Group**, **Delete Bill Group** or **Modify Bill Group** using following set of options.



Billing group name

Name for group of accounts.

Locations

Select locations to which it will apply.

Send invoice

Select will you send invoice on billing day or subscription day.

Send invoice in advance

Set how many days in advance you want to send invoice.

Billing day

Specify date for a billing.

Set invoice date as

Set invoice date as current date, current month subscription, next month subscription or previous month subscription.

Export and export path

Enable export and specify export path.

Default delivery type

Specify default delivery type between Email, Hardcopy and Email & Hardcopy.

Email template

Choose Email template used for billing.

Invoice Email Attachment Options

Select to use Invoice as PDF, Invoice as HTML or None as attachment to Email.

Locations

Choose in which locations this service will be available.

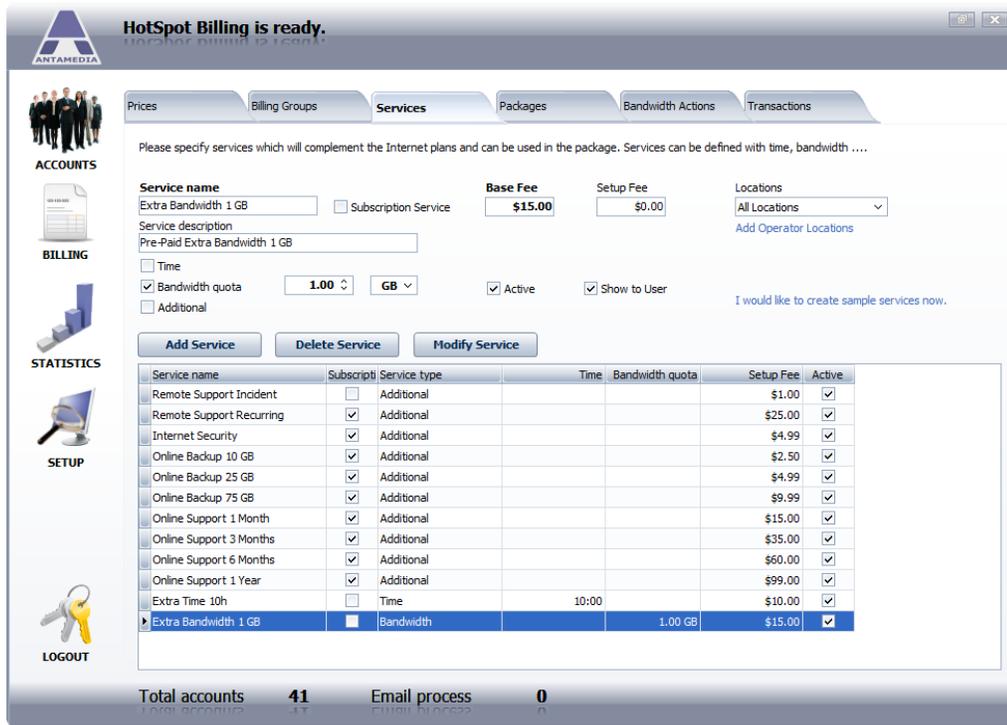
27.6 Billing Services

Services are HotSpot Billing feature that complements the price plans, it gives you a way to increase your profits by offering various services like remote IT support for HotSpot users, online (cloud) backup of their files, online support etc. You can include one or more services in customer's plan at the time when account(s) are generated (from [Generate Options](#)^[175] page), or create combinations of price plans and services called [Packages](#)^[193].

Another usage of this feature is refilling the accounts in case users spend all time/quota allowance before the billing interval is over. You can create services that contain additional time/quota and assign one service per price plan (under Price Plans - Additional Options tab) to automatically refill the account if time/quota is depleted.

Services options available under Billing - Services page:

Service name	A short name for the service.
Service description	Set a longer description for the service.
Time/Bandwidth Quota	Tick this box if you want to use this service to refill user accounts and set the amount in the field next to the box. Service can refill the time in the account, quota or both.
Additional	Select this box if you want to define other type of service, like remote support, online backup etc.
Subscription service	Service will be charged on billing intervals and it will be available only in combination with subscription price plans.
Billing interval	Set the billing interval if you enabled subscription service option.
Base fee	Enter the base fee for this service.
Setup fee	Optionally set the service setup fee.
Active	Choose whether this service will be currently available for use or just stored in database.
Show to user	
Locations	Choose in which locations this service will be available.



27.7 Billing Packages

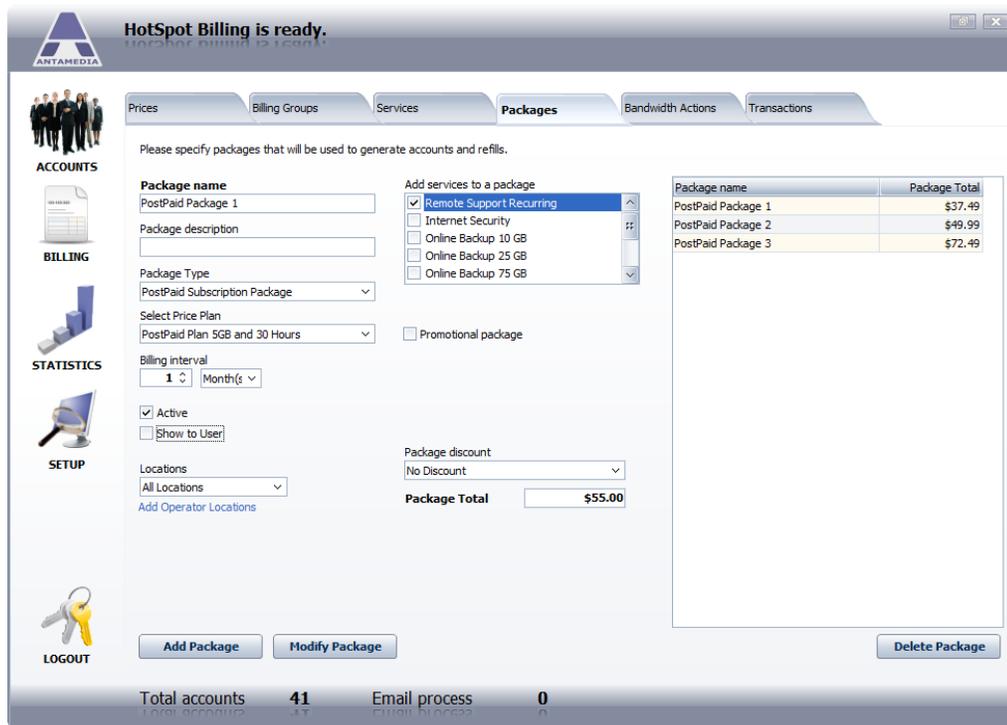
This option helps you to create various combinations of price plans, services and discounts, these end-products are called packages. To define a new package, please go to Billing - Packages page and follow these steps:

1. Enter the **Package name**.
2. (Optional) Set longer **Package description**.
3. Set **Package type** and **Select price plan**.
4. If required, set the **Billing Interval**.
5. (Optional) Enable **Promotional package** and set promo price and period.
6. Tick desired items in **Add services to a package** list.
7. (Optional) Set a discount for this package.
8. Click **Add Package** button to save it.

Package options available under Billing - Packages page:

- Package name** Enter a short name for this package.
- Package description** Set a longer description for the package.
- Package type** Choose which type of price plan this package will include.
- Select Price Plan** Select desired price plan, which belongs to the type you chosen.
- Billing interval** Set the billing interval if you chosen subscription package type.

- Add services to a package** Select desired services from the list, that will be included in the package.
- Promotional package** Select this option to enable promotional price for a certain period, you can choose exact end date or set period in days, weeks, months or years.
- Active** Choose whether this package will be currently available for use or just stored in database.
- Show to user**
- Locations** Choose in which locations this package will be available.
- Package discount** Optionally, you can include a discount with the package, in this field please select which discount will be applied.
- Package Total** This field shows total price for the package, including a discount.



HotSpot Billing is ready.

Prices | Billing Groups | Services | **Packages** | Bandwidth Actions | Transactions

Please specify packages that will be used to generate accounts and refills.

Package name
PostPaid Package 1

Package description

Package Type
PostPaid Subscription Package

Select Price Plan
PostPaid Plan 5GB and 30 Hours

Billing interval
1 Month(s)

Active
 Show to User

Locations
All Locations
[Add Operator Locations](#)

Add services to a package

- Remote Support Recurring
- Internet Security
- Online Backup 10 GB
- Online Backup 25 GB
- Online Backup 75 GB

Promotional package

Package discount
No Discount

Package Total \$55.00

Package name	Package Total
PostPaid Package 1	\$37.49
PostPaid Package 2	\$49.99
PostPaid Package 3	\$72.49

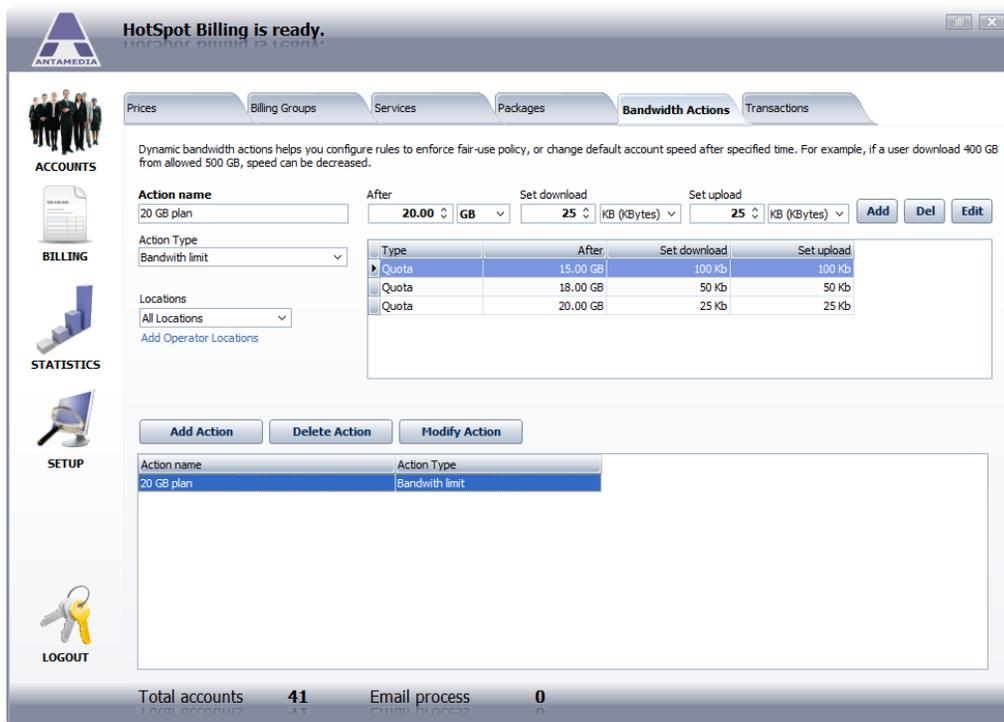
Add Package **Modify Package** **Delete Package**

Total accounts **41** Email process **0**

27.8 Billing Bandwidth Actions

HotSpot Billing helps you to prevent overuse of bandwidth by enforcing fair-use policies - **Bandwidth Actions**. Using these policies, you can set the software to automatically decrease user's download and/or upload speed after specified amount of bandwidth quota is reached. For example, if user spends 15GB from allowed 20GB, speed can be decreased. You can also define multiple actions within one policy, for example 1Mbit after 15GB, 512Kbps after 18GB and 128Kbps after 20GB. To create a new policy, open Billing - Bandwidth Actions page and follow these steps:

1. Enter policy name in **Action name** field.
2. Select **Action Type**, whether the speed limits will apply after certain bandwidth or time.
3. Choose in which **Locations** this policy will be available.
4. Set amount of quota/time in **After** field.
5. Set desired speeds in **Set download** and **Set upload** fields.
6. Click **Add** button.
7. Repeat steps 4-6 if you need to create more bandwidth speed (decrement) actions.
8. Click **Add Action** button to save new policy.



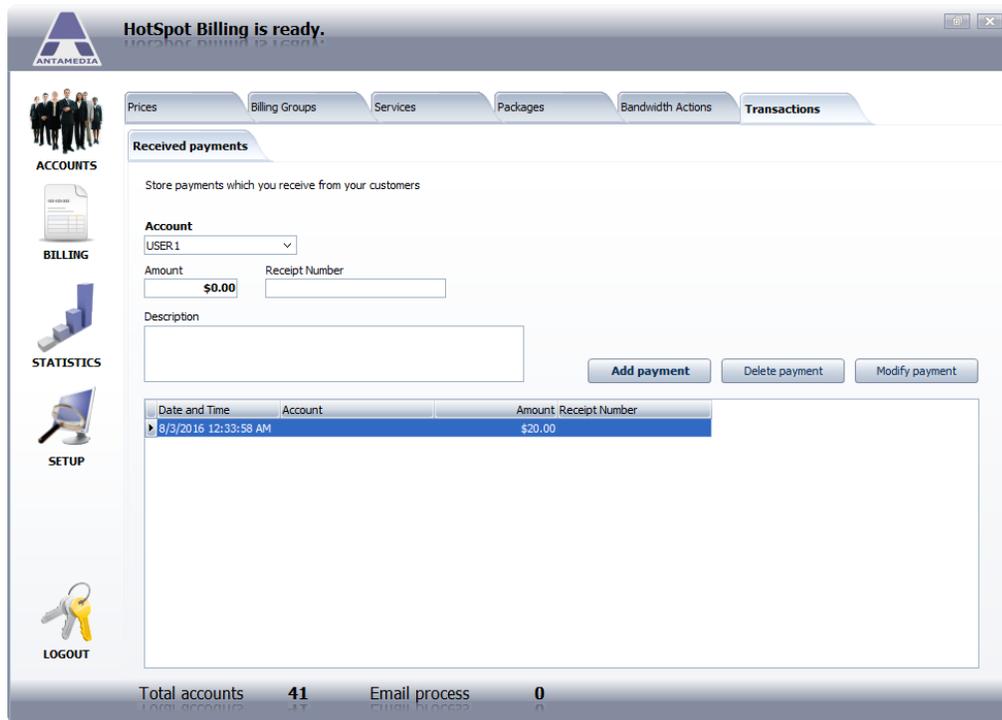
The screenshot shows the 'Bandwidth Actions' configuration page in the Antamedia HotSpot Billing software. The interface includes a sidebar with navigation icons for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT. The main content area has tabs for Prices, Billing Groups, Services, Packages, Bandwidth Actions, and Transactions. A descriptive text explains that dynamic bandwidth actions help enforce fair-use policies. The configuration form includes fields for Action name (20 GB plan), After (20.00 GB), Set download (25 KB), and Set upload (25 KB). Below these are dropdowns for Action Type (Bandwidth limit) and Locations (All Locations). A table lists existing actions:

Type	After	Set download	Set upload
Quota	15.00 GB	100 kb	100 kb
Quota	18.00 GB	50 kb	50 kb
Quota	20.00 GB	25 kb	25 kb

Buttons for Add Action, Delete Action, and Modify Action are provided. At the bottom, a summary shows 'Total accounts: 41' and 'Email process: 0'.

27.9 Billing Transactions

From Billing - Transactions - Received payments page you can view and store records about customer payments. The payments for prepaid accounts will automatically appear in this list soon as they are generated, if **Sell Now** option is enabled.



HotSpot Billing is ready.

Prices Billing Groups Services Packages Bandwidth Actions **Transactions**

Received payments

Store payments which you receive from your customers

Account: USER1

Amount: \$0.00 Receipt Number: []

Description: []

[Add payment] [Delete payment] [Modify payment]

Date and Time	Account	Amount	Receipt Number
8/3/2016 12:33:58 AM	USER1	\$20.00	

Total accounts **41** Email process **0**

27.10 Billing Statistics

27.10. Bills

Bills page shows the list of all charged bills. Each bill has the following details: Date, Subtotal, Discount, Tax and Total amount

If you want to see what was charged on the selected bill, please click on + button to open the list. You can see the following details:

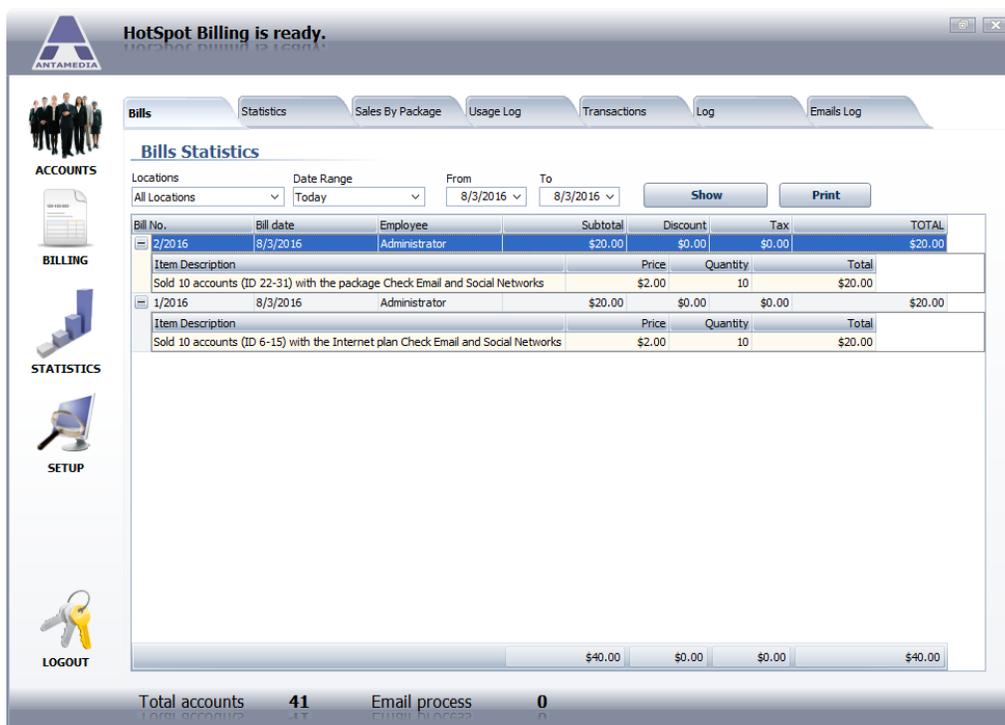
Description, Subtotal, Quantity, Tax and Total amount

For example, if you generate and sell 10 accounts, you will see in description field

Description: Sold 10 accounts (ID 1-10) with price plan 15 minutes test

Quantity: 10

To display all the bills of specified time period, please select starting and ending date in the **From** and **To** fields and press **Show** button. HotSpot automatically calculates totals for all bills and displays it in bottom bar.



The screenshot shows the 'Bills Statistics' page in the Antamedia HotSpot Billing Add-on. The interface includes a sidebar with navigation icons for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT. The main content area has tabs for Bills, Statistics, Sales By Package, Usage Log, Transactions, Log, and Emails Log. The 'Bills Statistics' section includes filters for Locations (All Locations), Date Range (Today), and date selection (From: 8/3/2016, To: 8/3/2016). There are 'Show' and 'Print' buttons. Below the filters is a table of bills:

Bill No.	Bill date	Employee	Subtotal	Discount	Tax	TOTAL
2/2016	8/3/2016	Administrator	\$20.00	\$0.00	\$0.00	\$20.00
Item Description			Price	Quantity	Total	
Sold 10 accounts (ID 22-31) with the package Check Email and Social Networks			\$2.00	10	\$20.00	
1/2016	8/3/2016	Administrator	\$20.00	\$0.00	\$0.00	\$20.00
Item Description			Price	Quantity	Total	
Sold 10 accounts (ID 6-15) with the Internet plan Check Email and Social Networks			\$2.00	10	\$20.00	

At the bottom of the interface, there is a summary bar showing totals for Subtotal (\$40.00), Discount (\$0.00), Tax (\$0.00), and TOTAL (\$40.00). Below the summary bar, there are statistics: Total accounts: 41, Email process: 0.

27.10. Statistics

Statistics report is providing valuable data about your HotSpot operation. It will show you **total time usage**, **bandwidth**, **number of logins** and **total sales** for selected day or time period. Using this feature you can identify which days generate lower profit and stimulate customers with appropriate benefits.

Statistical data is collected continuously, after each customer logout, so you can always enjoy fast report display on screen.

Statistics is available in Chart and Table mode. By default, statistics is displayed in chart mode, giving you a graphical overview of HotSpot activity. You can see, for example, time usage displayed in minutes, over the selected period displayed as days of the year.

Depending on the date range selected, you will see an activity in 24 hours for current day, or for a time period defined with the starting and the ending date in the **From** and **To** fields.

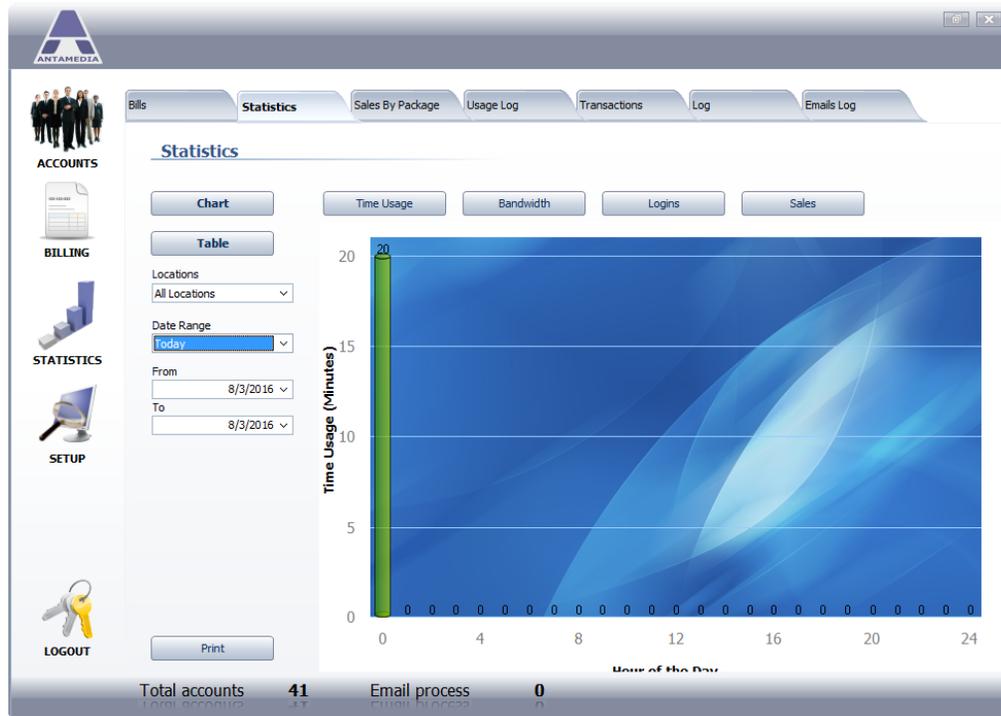
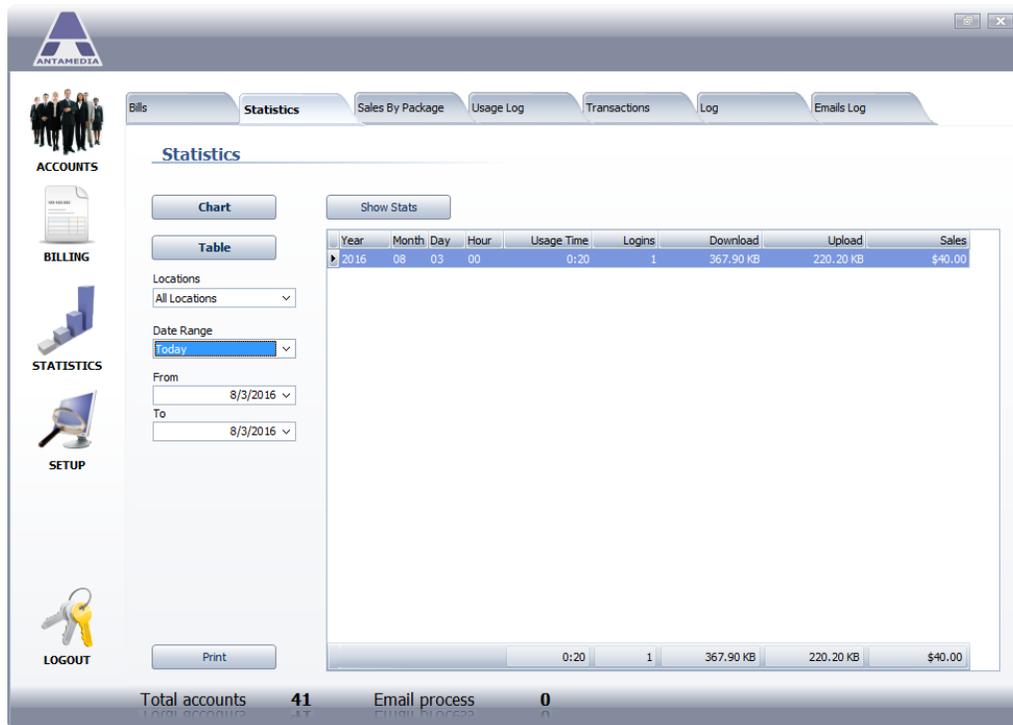


Table mode shows statistics in a condensed view on a daily basis. For each **year, month, and day**, you will see **usage time, number of logins, download, upload** and **total sales**.



27.10. Sales by package

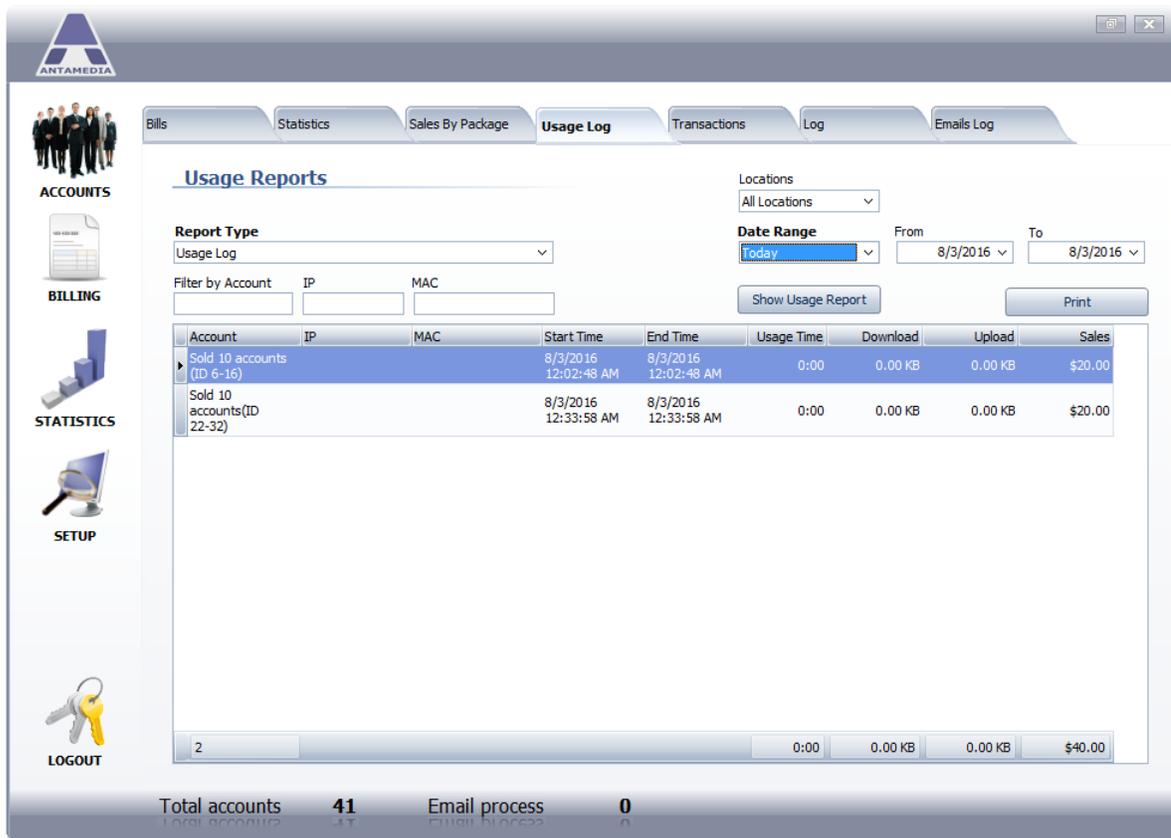
Sales by package statistics report allows you to analyze how many times each package type is sold, the report is shown in both pie-chart and table forms. The pie-chart diagram displays percentage of sales by package, while table shows number of sales and total earnings for each package. To display a report for desired time period, please select one of predefined time ranges from **Date Range** field, or choose starting and ending date in the **From** and **To** fields and press **Show Report** button.

27.10.Usage Log

Usage Log is a session based report which precisely shows **who, when** and **how much** has used your HotSpot services.

This report shows the following details: Account, IP, MAC, Start time (when a session started), End time (when session stopped), Usage time, Download, Upload and Sales (if a customer has paid)

To display usage report for specified time period, please select the starting and the ending date in the **From** and **To** fields, or choose one of the predefined time periods (Today, Yesterday, Last 7 days etc.), and press **Show Usage Report** button. You can filter such report for a specified account, IP or MAC address.



Usage report offers many reports like:

Usage Log - shows all sessions and its details

Summary per Account - get totals for selected account

Summary per MAC - get totals for the selected MAC address

Summary per IP - get totals for the selected IP address

Usage Reports

Locations: All Locations

Date Range: From Today To 8/3/2016

Show Usage Report Print

Report Type	Start Time	End Time	Usage Time	Download	Upload	Sales
Usage Log						
Usage Log						
Summary per Account						
Summary per MAC						
Summary per IP						
Top customers by download						
Top customers by upload						
Top customers by time usage	8/3/2016 2:02:48 AM	8/3/2016 12:02:48 AM	0:00	0.00 KB	0.00 KB	\$20.00
Top customers by sales						
Top customers by number of sessions	8/3/2016	8/3/2016	0:00	0.00 KB	0.00 KB	\$20.00
accounts(ID 22-32)	12:33:58 AM	12:33:58 AM				

You can also get top customers statistics which can help you to identify the customers who have made the biggest profit, most download, or have spent most of the time using your services.

- Top customers by download**
- Top customers by upload**
- Top customers by time usage**
- Top customers by sales**
- Top customers by number of sessions**

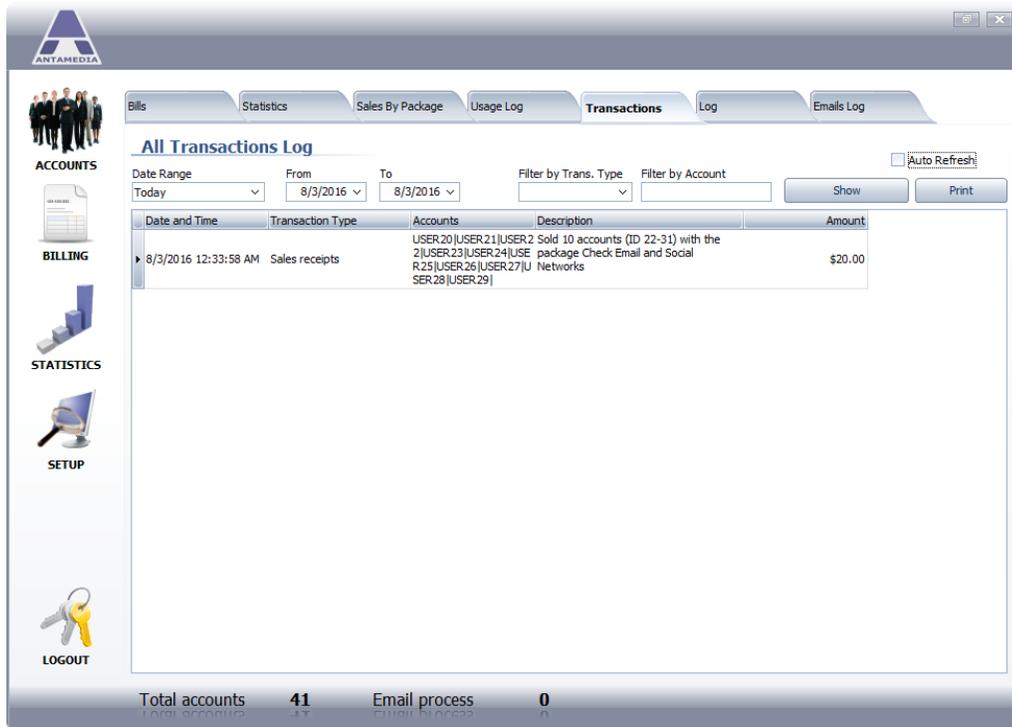
The report names are self-explanatory. Top statistics only take sessions where an activity exists.

27.10. Transactions

Transactions log shows a list of all transactions, it contains sales receipts for prepaid accounts, received payments for subscription and postpaid accounts, credit memos and refunds.

This report shows the following details: Date and Time, Transaction type, Account(s) that made the transaction, Description, Amount

To display transactions for specified time period, please select the starting and the ending date in the **From** and **To** fields, or choose one of the predefined time periods (Today, Yesterday, Last 7 days etc.), and press **Show** button. You can also filter the view by specified **Account** and/or transaction type.



All Transactions Log

Date Range: Today | From: 8/3/2016 | To: 8/3/2016 | Filter by Trans. Type: | Filter by Account: | Auto Refresh | Show | Print

Date and Time	Transaction Type	Accounts	Description	Amount
8/3/2016 12:33:58 AM	Sales receipts	USER20 USER21 USER22 USER23 USER24 USER25 USER26 USER27 USER28 USER29	Sold 10 accounts (ID 22-31) with the package Check Email and Social Networks	\$20.00

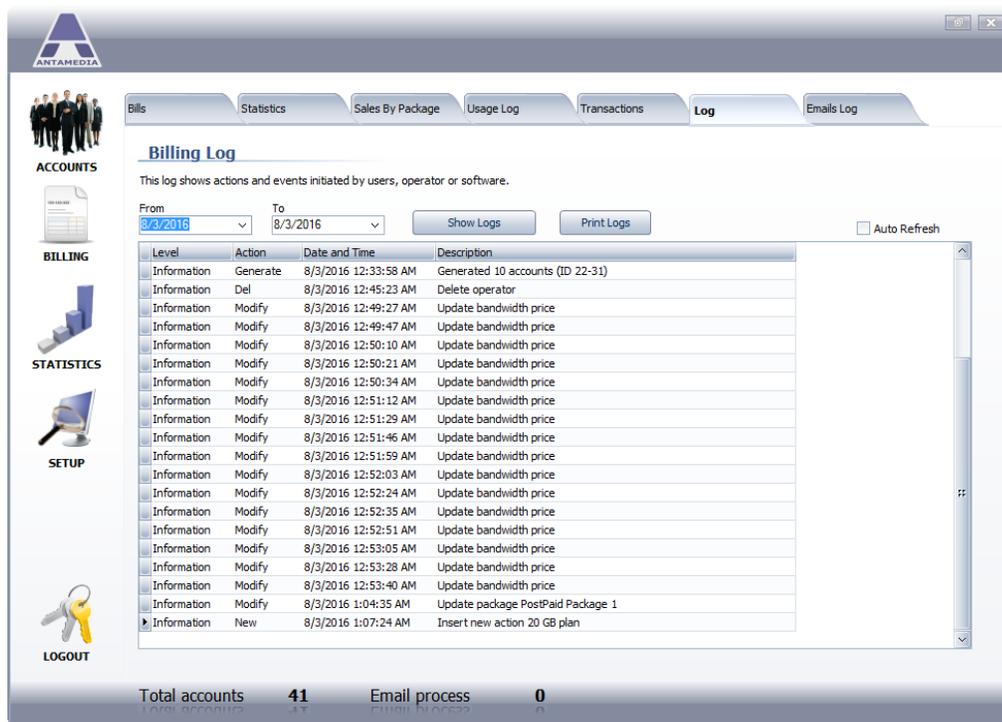
Total accounts: 41 | Email process: 0

27.10.Log

Statistics - Log page shows all the actions and events initiated by users, operators or software.

Log shows the following details: Level Information (Warning, Payment, System Error), Action, Date and Time and Description.

To display all the log items for specified time period, please select starting and ending date in the **From** and **To** fields and press **Show** button.



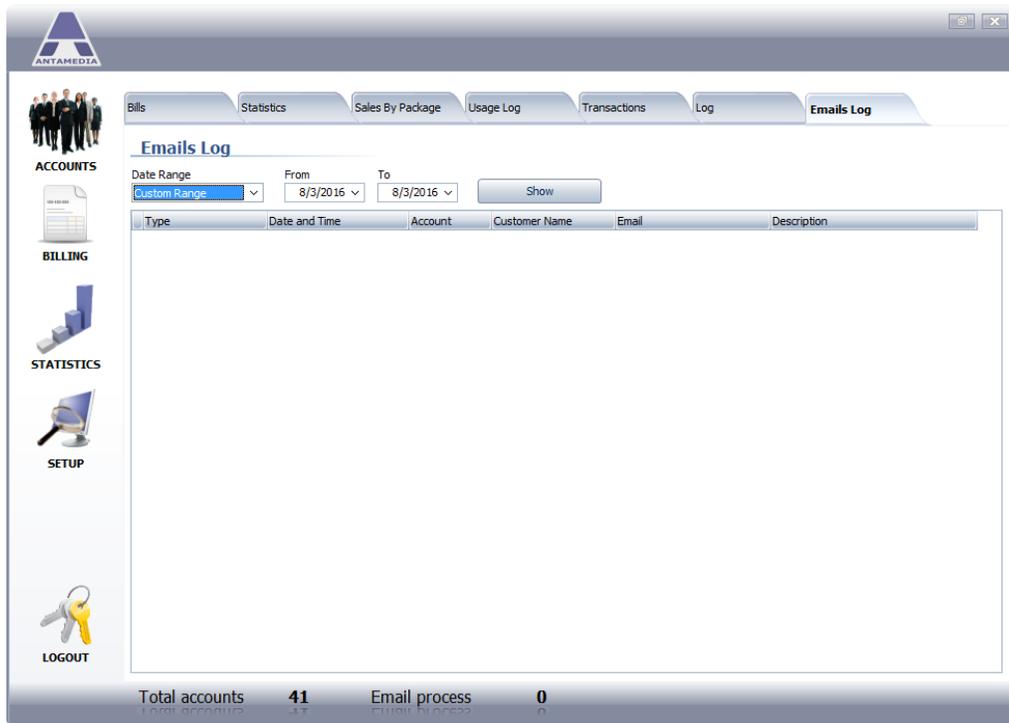
The screenshot shows the 'Billing Log' page in the Antamedia interface. The page has a sidebar with navigation icons for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT. The main content area includes a navigation bar with tabs for Bills, Statistics, Sales By Package, Usage Log, Transactions, Log, and Emails Log. Below the tabs, there is a title 'Billing Log' and a subtitle 'This log shows actions and events initiated by users, operator or software.' There are two date selection fields: 'From' (8/3/2016) and 'To' (8/3/2016), along with 'Show Logs' and 'Print Logs' buttons. An 'Auto Refresh' checkbox is also present. The log entries are displayed in a table with the following columns: Level, Action, Date and Time, and Description.

Level	Action	Date and Time	Description
Information	Generate	8/3/2016 12:33:58 AM	Generated 10 accounts (ID 22-31)
Information	Del	8/3/2016 12:45:23 AM	Delete operator
Information	Modify	8/3/2016 12:49:27 AM	Update bandwidth price
Information	Modify	8/3/2016 12:49:47 AM	Update bandwidth price
Information	Modify	8/3/2016 12:50:10 AM	Update bandwidth price
Information	Modify	8/3/2016 12:50:21 AM	Update bandwidth price
Information	Modify	8/3/2016 12:50:34 AM	Update bandwidth price
Information	Modify	8/3/2016 12:51:12 AM	Update bandwidth price
Information	Modify	8/3/2016 12:51:29 AM	Update bandwidth price
Information	Modify	8/3/2016 12:51:46 AM	Update bandwidth price
Information	Modify	8/3/2016 12:51:59 AM	Update bandwidth price
Information	Modify	8/3/2016 12:52:03 AM	Update bandwidth price
Information	Modify	8/3/2016 12:52:24 AM	Update bandwidth price
Information	Modify	8/3/2016 12:52:35 AM	Update bandwidth price
Information	Modify	8/3/2016 12:52:51 AM	Update bandwidth price
Information	Modify	8/3/2016 12:53:05 AM	Update bandwidth price
Information	Modify	8/3/2016 12:53:28 AM	Update bandwidth price
Information	Modify	8/3/2016 12:53:40 AM	Update bandwidth price
Information	Modify	8/3/2016 1:04:35 AM	Update package PostPaid Package 1
Information	New	8/3/2016 1:07:24 AM	Insert new action 20 GB plan

At the bottom of the interface, there are summary statistics: Total accounts: 41, Email process: 0.

27.10. Emails Log

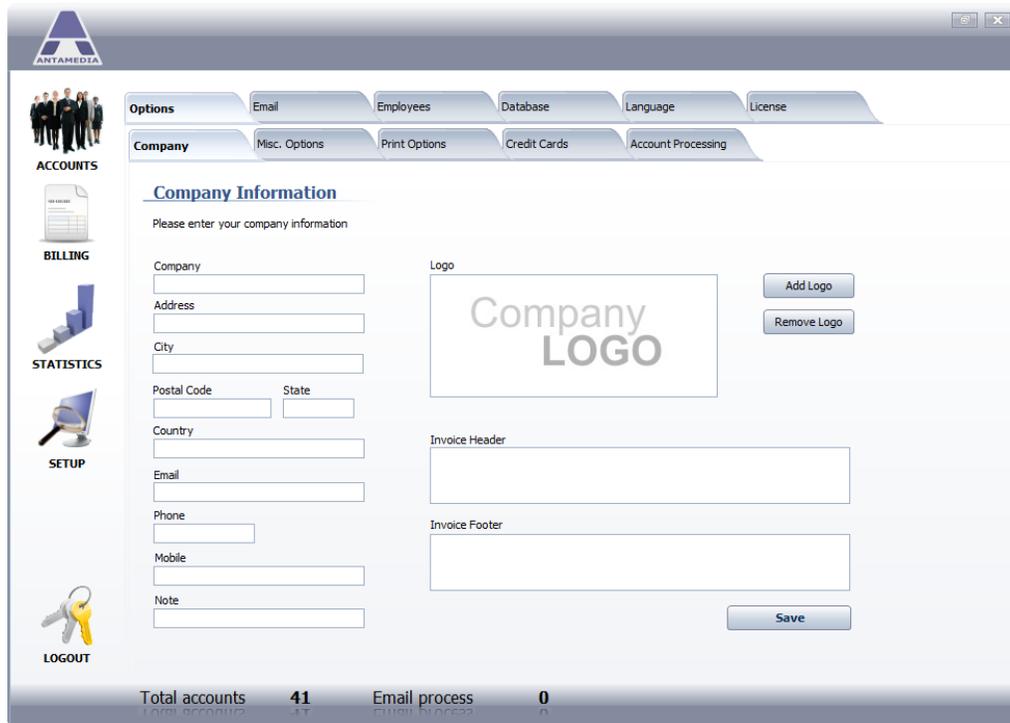
Emails log page shows a list of all emails automatically sent by the software, like invoices, receipts, expiration notifications, low time/quota warnings etc. To display emails for specified time period, please select the starting and the ending date in the **From** and **To** fields, or choose one of the predefined time periods (Today, Yesterday, Last 7 days etc.), and press **Show** button.



27.11 Billing Options

27.11.1 Company Info

Form under the Setup - Options - Company page allows you to specify various details about your company such as company name, address, email, logo image etc. These details will appear on invoices you send to postpaid customers. Here you can also define header and footer text for these invoices.



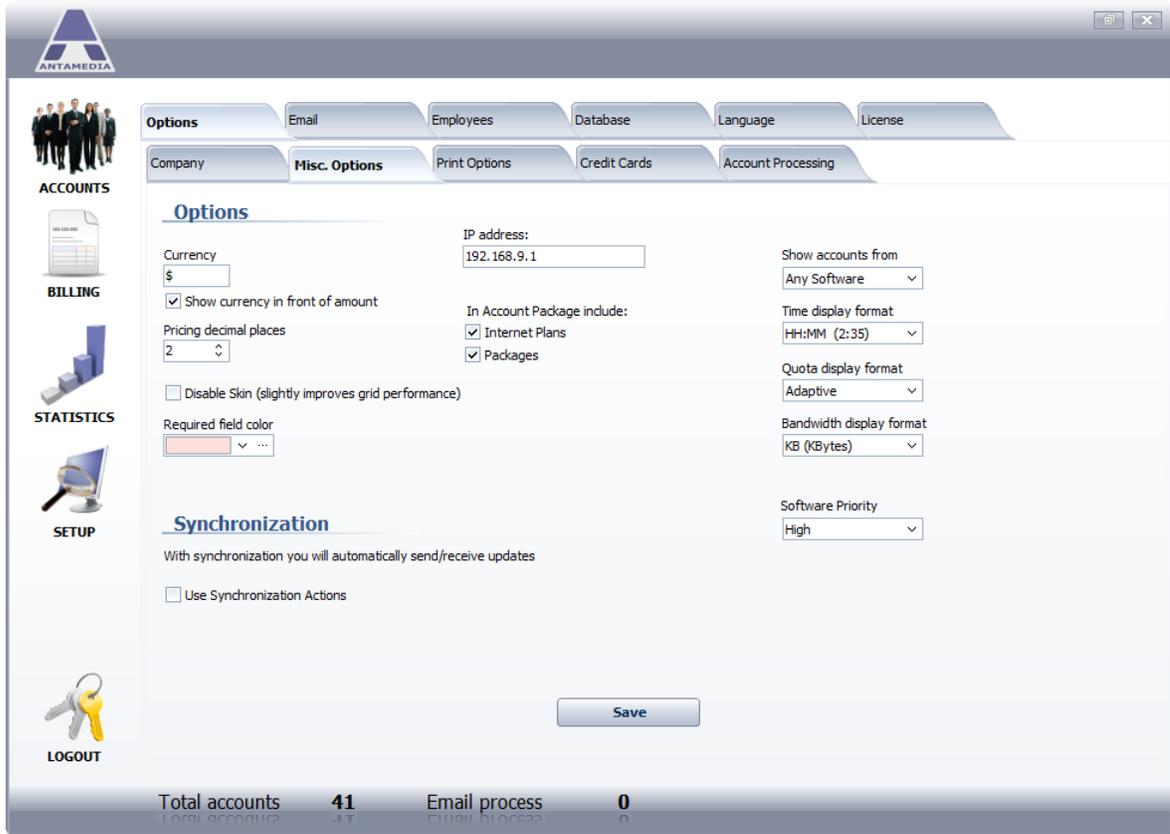
The screenshot shows a web application interface for 'Company Information'. The top navigation bar includes 'Options', 'Email', 'Employees', 'Database', 'Language', and 'License'. Below this, a sub-navigation bar has 'Company', 'Misc. Options', 'Print Options', 'Credit Cards', and 'Account Processing'. The main content area is titled 'Company Information' and contains the following fields:

- Company:
- Address:
- City:
- Postal Code: State:
- Country:
- Email:
- Phone:
- Mobile:
- Note:
- Logo: (with 'Add Logo' and 'Remove Logo' buttons)
- Invoice Header:
- Invoice Footer:

A 'Save' button is located at the bottom right of the form. On the left side, there is a vertical menu with icons for 'ACCOUNTS', 'BILLING', 'STATISTICS', 'SETUP', and 'LOGOUT'. At the bottom of the window, a status bar shows 'Total accounts 41' and 'Email process 0'.

27.11. Misc. Options

Currency	To configure currency sign, please enter desired letters or sign, and choose should it be displayed before or after the amount. You can add space field if needed.
Decimal places	Configure number of digits after dot (.) in the price amount. Usually it's set to 2.
Disable Skin	Skinned interface can be disabled in some parts of software in order to improve performance and response time.
Required field color	Select the color for required fields in forms.
IP Address	
In Account Package include	
Show accounts from	Show the accounts from other Antamedia software (Internet Cafe software, HotSpot, Bandwidth Manager).
Time display format	Choose format which is used to display time HH:MM (2:35), Hh:Mm (2h 35m), Hh:Mmin (2h 35min), M m (155m), M min (155 min)
Quota display format	Choose quota format between bytes, KB, MB, GB, TB, PB, or adaptive which automatically displays the correct format depending on value
Bandwidth display format	Choose the display format of download and upload rate KB (KBytes), Kb (Kbits), MB (MBytes), Mb (Mbits)
Software Priority	Choose between High and Normal program priority
Use Synchronization Actions	



Options

Company: **Misc. Options** | Print Options | Credit Cards | Account Processing

Options

Currency: \$

IP address: 192.168.9.1

Show accounts from: Any Software

Show currency in front of amount

Pricing decimal places: 2

In Account Package include:

- Internet Plans
- Packages

Disable Skin (slightly improves grid performance)

Time display format: HH:MM (2:35)

Quota display format: Adaptive

Bandwidth display format: KB (KBytes)

Software Priority: High

Synchronization

With synchronization you will automatically send/receive updates

Use Synchronization Actions

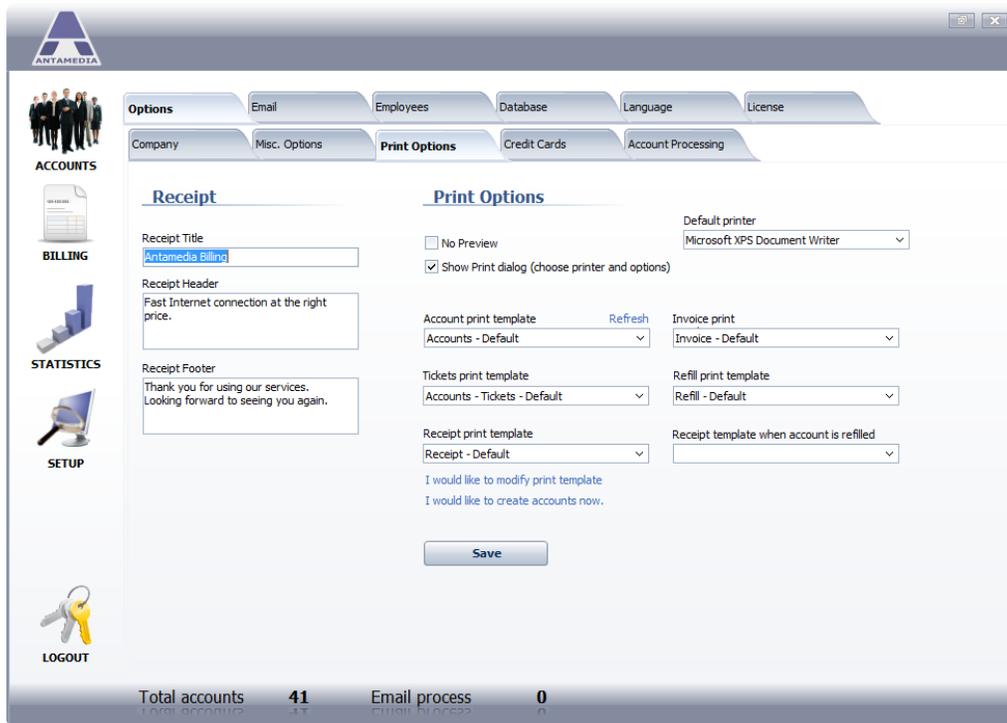
Save

Total accounts **41** | Email process **0**

27.11. Print Options

HotSpot Billing allows you to choose from several templates for pre-paid account, ticket, refill, receipt and refill receipt printing. To configure print templates, please open Setup - Options - Print Options page. Set receipt title, header and footer text. Depending on receipt template, this text will appear on printed receipt which you give out to the customer. Use drop down menus to select print templates for accounts and receipts.

If you do not want to see a preview before printing, which is suitable once you configure print templates, please select **No Preview**. To print directly to the default printer, without showing print dialog, please disable **Show Print dialog** option.

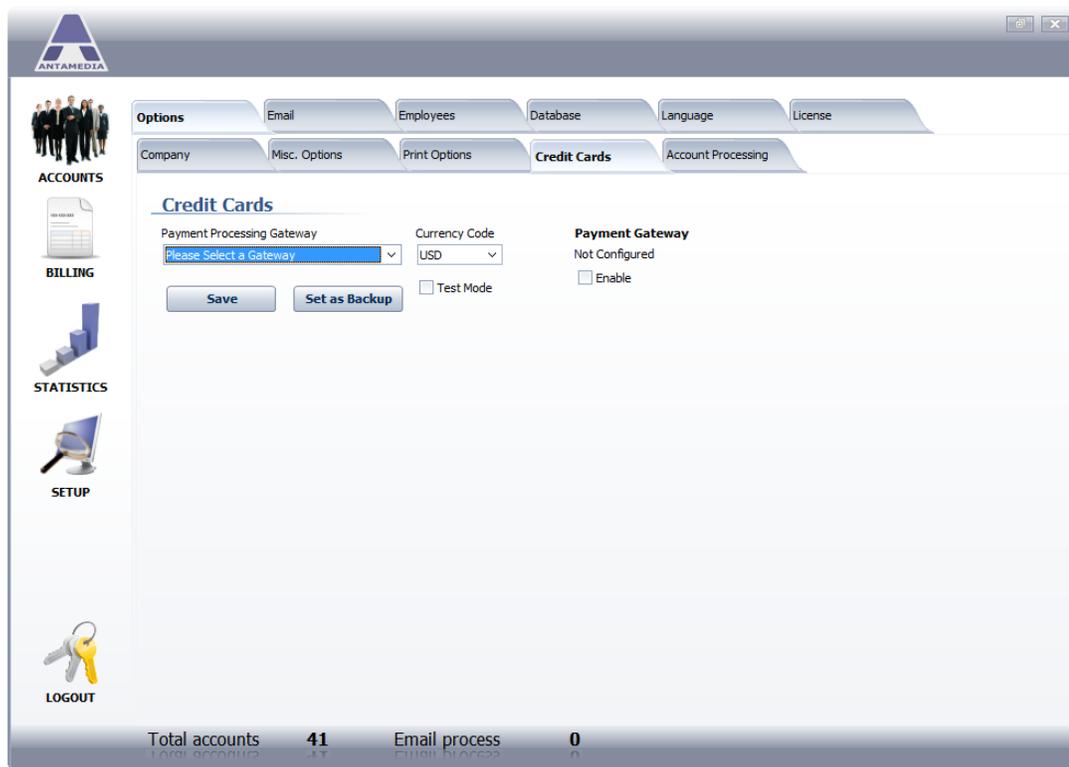


27.11. Credit Cards

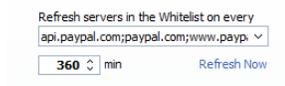
Credit card processing option is very important if you want to automate your HotSpot Billing. With this option you can install unattended HotSpot gateway and our software will do all the job. Visitors who are willing to use your services can sign up for username and password, choose a price plan and pay with their credit card. The processing occurs within seconds and your customers are able to continue using your services.

Antamedia HotSpot offers different credit card processing gateways. Take a look at complete list of the [supported payment gateways](#) PCI DSS Compliance is ensured by allowing you to choose how/if you want to collect customers credit card details.

For payment gateway configuration, please go to HotSpot Billing - Setup - Credit Cards page and select **Payment Processing Gateway**

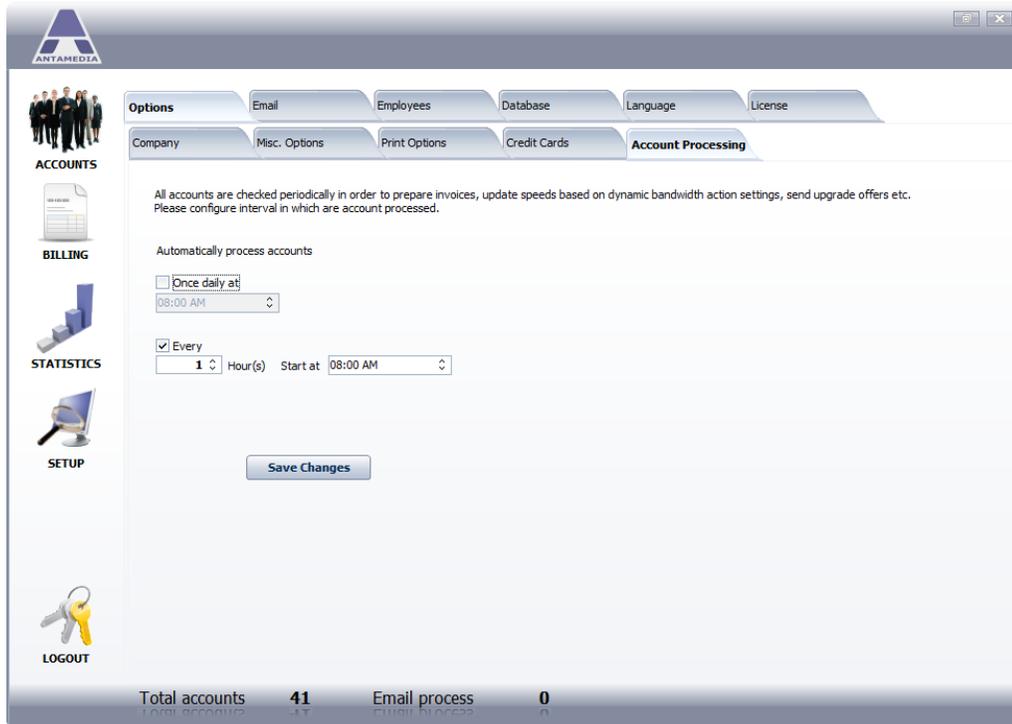


Payment gateways often requires whitelisting of their servers which are used during processing. Please click **Refresh Now** link from HotSpot Host Whitelist page. After loading new servers to the list press on Save and restart HotSpot software.



27.11.Account Processing

The software periodically checks all accounts in order to prepare invoices, update speeds based on bandwidth action settings, send upgrade offers, email notifications etc. Under the Setup - Options - Account Processing page you can configure interval in which software processes the accounts, please select daily or hourly intervals.



27.12 Email

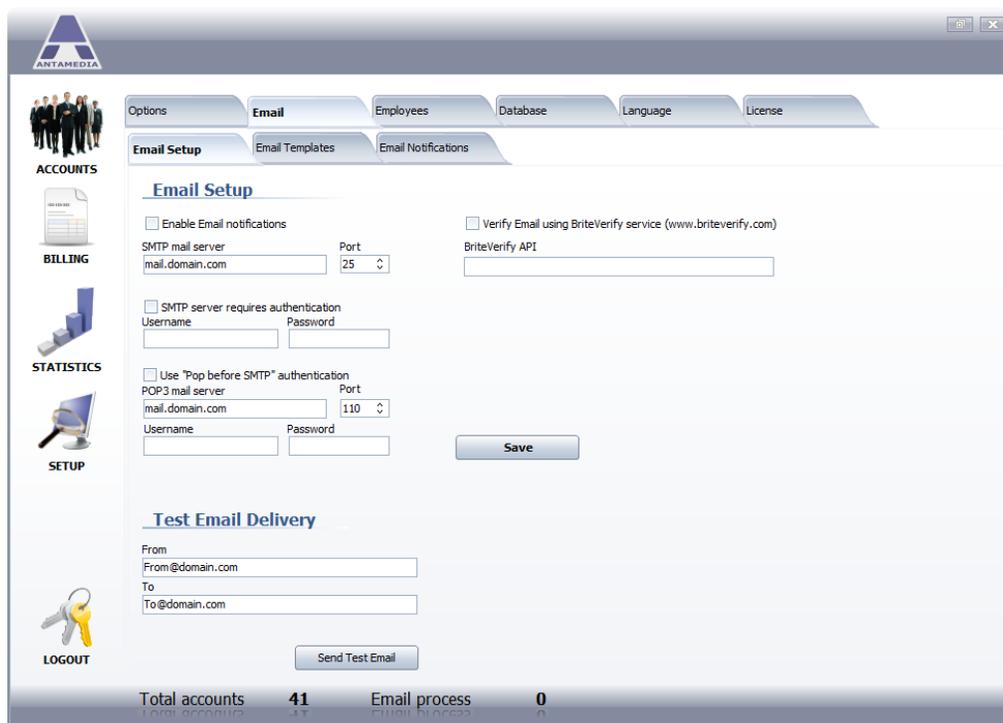
27.12.1 Email Setup

Email notification option is used to send Email messages to the customers to remind them about account expiration, to send invoice/payment receipt or a newsletter, and other purposes. Before you can start sending messages, please define mail server settings.

Please **Enable Email notification** to activate the option and fill in **SMTP mail server** address. If you are not running your own SMTP server, you can enter SMTP address of your ISP (Internet service provider). The software will check if SMTP server exists on that address and make the field green or red depending if SMTP has been found. In the most cases port 25 is used for Email sending, but, if required, the default port can be changed.

If your SMTP server requires authentication, please enable **SMTP server require authentication** option and type the username and password. Some SMTP servers might also require **POP before SMTP** authentication. In this case you need to specify POP3 mail server, the used port (default 110) and the account username and the password.

To test Email delivery, please enter Emails in **from** and **to** fields and click **Send Test Email** button. If you get a test Email, everything is properly configured. When you finish, please click **Save** button.



The screenshot shows the 'Email Setup' configuration page in the Antamedia HotSpot Billing Add-on. The page is divided into several sections:

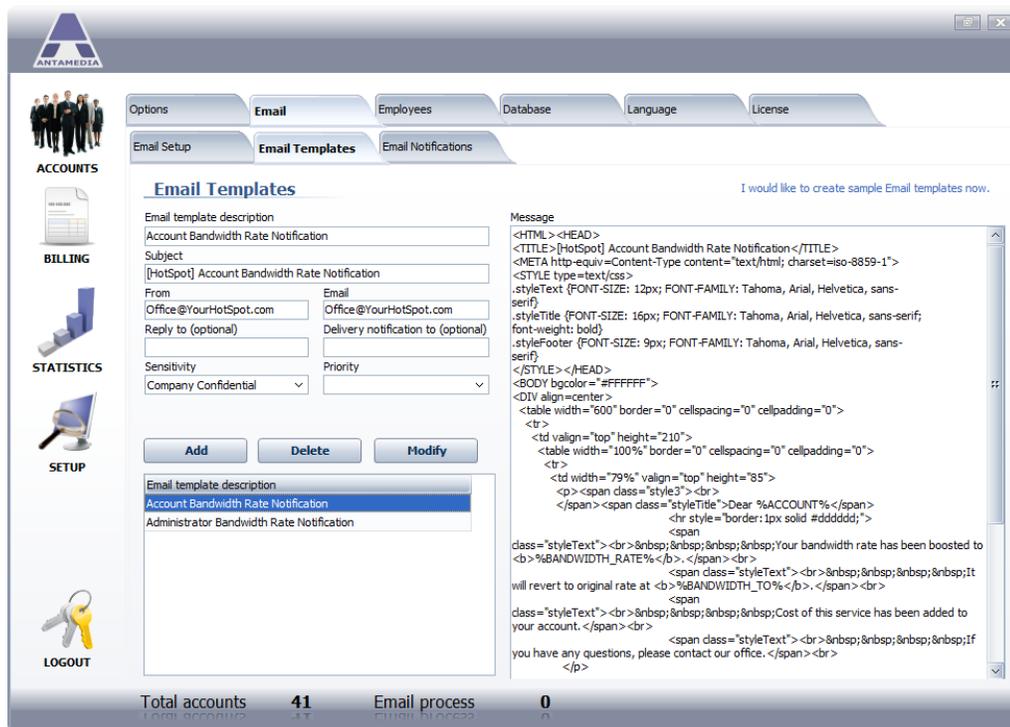
- Navigation:** Includes tabs for 'Options', 'Email', 'Employees', 'Database', 'Language', and 'License'. Below these are sub-tabs for 'Email Setup', 'Email Templates', and 'Email Notifications'.
- Left Sidebar:** Contains icons and labels for 'ACCOUNTS', 'BILLING', 'STATISTICS', 'SETUP', and 'LOGOUT'.
- Email Setup Section:**
 - Enable Email notifications
 - Verify Email using BriteVerify service (www.briteverify.com)
 - SMTP mail server: Port:
 - BriteVerify API:
 - SMTP server requires authentication
 - Username:
 - Password:
 - Use "Pop before SMTP" authentication
 - POP3 mail server: Port:
 - Username:
 - Password:
 -
- Test Email Delivery Section:**
 - From:
 - To:
 -
- Status Bar:** Shows 'Total accounts: 41' and 'Email process: 0'.

27.12. Email Templates

Email templates feature helps you to define the look and content of Email messages which will be sent to your customers. By default, HotSpot Billing offers a few different templates like: expiration reminder, billing notification, prepaid promotions, bandwidth rate notification. You can edit the existing one or add new templates. Please note that message text is a HTML code, and Email is sent as a HTML Email.

Each Email template is defined with:

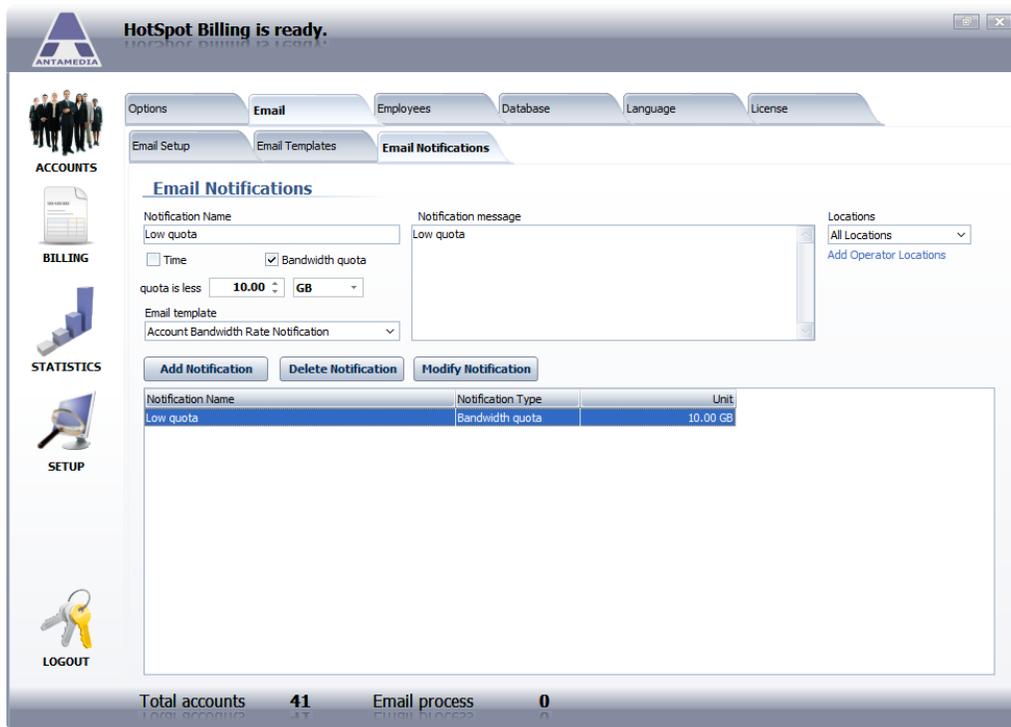
Description	Description is displayed in the software from where an operator chooses Email template
Subject	Email subject
From	Your name, company name or the department
Email	Your Email from which you are sending a message



27.12. Email Notifications

HotSpot Billing can automatically send warning notification when accounts reach low value of time and/or quota. Under the Setup - Email - Email Notifications page you can configure notification templates and exact time and quota thresholds causing the software to send warnings. You can set multiple warnings of the same type, for example send warning when 500Mb quota is reached, next warning for 200Mb, next for 100Mb etc. To configure a new template, please follow these steps:

1. Enter the **Notification Name**.
2. Choose the type of warning, time or bandwidth quota.
3. Set the value that will trigger the notification.
4. Select the **Email Template**.
5. Enter desired **Notification message** text.
6. Click **Add Notification** button.



The screenshot shows the 'Email Notifications' configuration page in the Antamedia HotSpot Billing interface. The page title is 'HotSpot Billing is ready.' and the main navigation tabs include Options, Email, Employees, Database, Language, and License. The 'Email' tab is active, and the sub-tab 'Email Notifications' is selected. The page contains the following elements:

- Left Sidebar:** Contains icons and labels for ACCOUNTS, BILLING, STATISTICS, SETUP, and LOGOUT.
- Form Fields:**
 - Notification Name:** A text input field with 'Low quota' entered.
 - Notification message:** A large text area with 'Low quota' entered.
 - Locations:** A dropdown menu set to 'All Locations' with a link to 'Add Operator Locations' below it.
 - Quota Type:** Radio buttons for 'Time' (unchecked) and 'Bandwidth quota' (checked).
 - Quota Value:** A numeric input field set to '10.00' and a unit dropdown set to 'GB'.
 - Email template:** A dropdown menu set to 'Account Bandwidth Rate Notification'.
- Buttons:** 'Add Notification', 'Delete Notification', and 'Modify Notification' buttons are located below the form fields.
- Table:** A table with columns 'Notification Name', 'Notification Type', and 'Unit'. It contains one row: 'Low quota', 'Bandwidth quota', '10.00 GB'.
- Footer:** A status bar at the bottom shows 'Total accounts: 41' and 'Email process: 0'.

27.13 Employees

Antamedia HotSpot supports the employee accounts with different access rights. Each employee have to login in order to do tasks in HotSpot. There are many types of employee accounts like: Administrator, Supervisor, Manager, Operator, Technician etc and this is defined by type field. You can also create employee account with custom access rights.

Administrator is granted full access in the software.

Manager can access statistics, reports, bills, action logs. Manager may create and modify the account properties or refill accounts, but may not Start or Stop HotSpot engine or access HotSpot setup pages.

Operator can only create and sell the accounts using simple, easy to learn interface.

How to create new employee account:

1. Type **Username** and **Password** of your employee
2. Choose **Type** of employee account
3. Fill in other optional details, like address, city, birthday, email, mobile number, document ID
4. Select **Active** to allow login in the HotSpot
5. (Optional) Add a photo of the employee or document scan
6. Click **Rights** tab and assign access rights to employee account
7. Press **Save** button to store a new employee in database

To delete employee account from the list, please select the account with left mouse click and press **Remove** button.

27.14 Database

27.14. Settings

On the first run of HotSpot Billing, Setup Wizard will configure **Database Server IP address**, and you will not need to modify anything on this page. If you have installed Database Server on other computer, please configure correct IP address.

Database settings page contains following options:

DBServer IP Address	IP address of the computer where Database Server has been installed. This IP is usually the same as HotSpot IP address
DBServer Port	Port used by Database Server. Default port is 12010*.
DBServer Username	Database Server username. Default username is Administrator*.
DBServer Password	Database Server Password. Default password is EDBDefault*
DBServer Compression	If HotSpot is connected to the Database Server through the Internet it is recommended to use higher compression to get faster response from the database. When running on the same computer, default compression setting (6) is recommended.
Save & Reconnect	Save settings and reconnect HotSpot to the Database Server
With search and sorting functionality on grid headers	With this option enabled you have ability to sort accounts (per name, IP, time etc.). If you are using computer with slower CPU and Ram memory, it is recommended not to use this option.
Without search and sorting functionality on grid headers	Account sorting is disabled and HotSpot will display accounts much faster and get overall better performance. It is recommended to select this option.
Always display only 1000 first accounts	If you have a large database and experience slow display of accounts when clicking on ACCOUNTS button, please consider using this option. It will significantly speed up database display on screen as only first 1000 accounts from result set will be displayed.

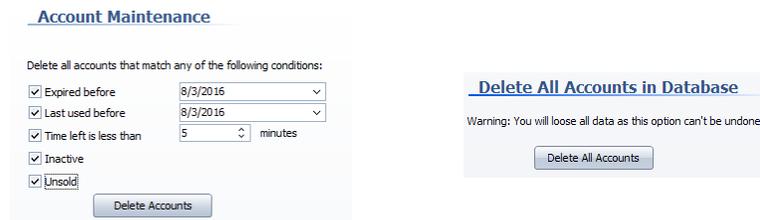
*Please note that the default port, username and password can be changed in the Database Server configuration menu

27.14. Maintenance

Everyday HotSpot activity increases database size. Although HotSpot can handle millions of records easily, it might be a good idea to perform maintenance on a regular basis. With default HotSpot setting all the accounts are displayed after clicking on Accounts button. With large database and many old and expired accounts it might take time to show them on screen. Account maintenance can help you keep the database fresh and speed up the display of accounts.

Account maintenance options available in Setup - Database - Maintenance page are:

- Expire Before** Use it to delete the accounts which expired before the specified date
- Last used before** Delete old accounts that have not been used lately
- Time left less than** Use it to delete accounts with few minutes left time. In the field specify the time interval in minutes
- Inactive** Delete all deactivated accounts
- Unsold** Delete the account that is generated with Sell Later option enabled, but not sold yet

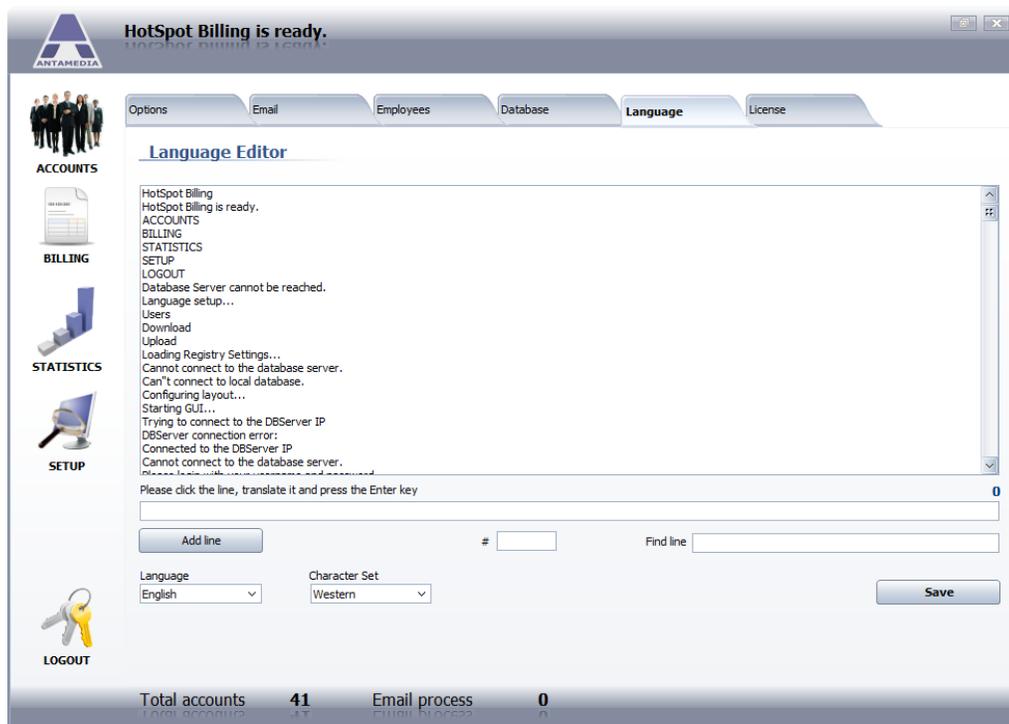


After selecting the desired options, please click on Delete Accounts to delete the accounts from the database. Please be careful with this function since deleted accounts cannot be restored.

27.15 Language Editor

To modify the existing translation file or create completely new, please follow these steps:

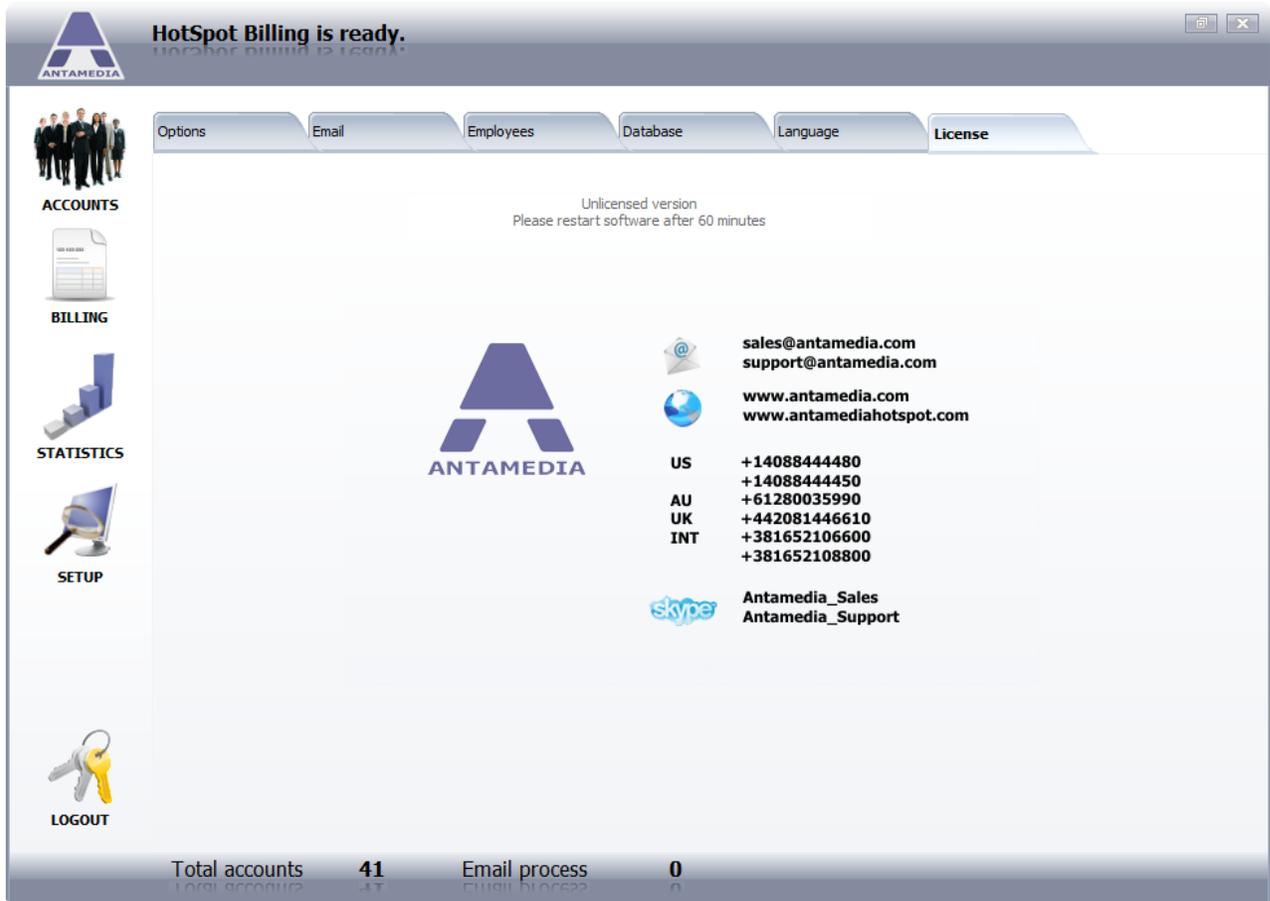
1. Go to Setup - Language page
2. Click on a line you wish to modify and it will appear in edit field below
3. Type a new text
4. Press Enter key and new line will be saved
5. Repeat the steps 2-4 for all the sentences you want to translate
6. When you finish, press **Save** button
7. Type the new name for translation file and press Save button in dialog



27.16 Licensing

After ordering HotSpot billing Add-On from our site <http://www.antamedia.com/buy/hotspot/> you will receive confirmation e-mail and informations about your Customer ID.

We will make your unique license and send it to specified e-mail address. If you have any issues with the license, please contact directly our sales department at sales@antamedia.com



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