

Thank you for your interest in our products and services. We hope this brief introduction will give you a better overview about our products and services.

Our Internet Access Control solutions for wireless and wired Local Area Networks are providing convenient Internet access for guests, visitors, and others, with the highest amount of control for the management. Internet Access is only granted to users with a username and password, with no special setup on the visitors' computer.

What makes the pointHotspot.com solution different from other 'Wireless Internet Access' solutions?

- Controlled Internet Access with Username and Password or Token
- Customised login page
- Web-based Control Panel for User Administration
- Allow users to be online for an exact specified billable time and/or traffic volume
- Reporting
- No complicated special set up on the Internet User's PC/Laptop (just in-build wireless 802.11b/g/n or card)
- 'Wired' PCs can also be connected using the same Access Control facility
- No on-site servers required, just a pointHotspot Gateway and one or more Access Points
- Online status monitor
- 128 bit SSL Security for the authentication process
- Billing by time/date/time-period (30m, 1h, 1d, 1m, Check-In/Check-Out etc)
- Bandwidth control per site and/or per user
- Optional: Selling of 'Surf-Tickets' pre-paid Internet Access accounts
- Optional: PayPal, Authorize.net, Netcash online payments via login page
- Roaming between multiple hotspot sites
- Live Support via website

Our Network Operations Center (NOC) is based in the USA and Canada and provides the back-office infrastructure for pointHotspot.com with redundant services providing the highest availability.

Your access controlled network can gradually grow from small, medium to large size from 10 to thousands of users.

Please contact us for any questions regarding pointHotspot.

Kind regards,

Gunther Richter

Ultra Consulting Network Limited



**Ultra**

Consulting Network Limited

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E-mail: [info@pointHotspot.com](mailto:info@pointHotspot.com) – [www.pointHotspot.com](http://www.pointHotspot.com) – v1.41

## pointHotspot Configuration example

The pointHotspot main **Gateway** will be installed directly connected to the Internet connection, usually High Speed Internet Access (Broadband, T1, Satellite, etc.).

The pointHotspot Gateway can be operated standalone (no other access points) (refer to figure 1.1), providing controlled wireless and wired Internet access. The wireless range can be expanded with additional **Access Points** (figure 1.2 and 1.3). The additional Access Points can be installed in different areas wirelessly covered by the gateway. The Access Points can be connected to the pointHotspot gateway either via CAT5/6 wire or wireless, depending on the distance between Gateway and Access Point (max 1000 feet in open area). While the wireless range in open area is predictable, it is not possible within buildings as the structure of the building and the building material (e.g. concrete) has a direct influence on the wireless range and can go as low as just 30 feet. New wireless products with the newly ratified standard 802.11n (September 2009) might address this issue more efficient than the current 802.11 a/b/g implementations.

Beside wireless connectivity, most wireless routers also provide a 4 port 10/100Mbit/sec Ethernet switch for wired connections. It is also possible to use outdoor equipment like antennas or integrated access points/antennas e.g. Engenius 2610 and many others.

Example pointHotspot.com Gateway / Access Point configuration:

Figure 1.1



The minimum pointHotspot configuration is shown in figure 1.1. The pointHotspot gateway can be any compatible device, in this figure it is the Engenius 9752. This wireless router can handle up to 40 concurrent online users. Users can be connected wirelessly or wired using the in-build 4 port switch. Many other devices are supported too. E.g. Asus RT-N16, Linksys WRT54GL or any other DD-WRT, OpenWRT, RouterOS, Chilli, CoovaChilli compatible hardware.



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Figure 1.2



A typical configuration is shown in figure 1.2, often used when upgrading existing wireless networks. The pointHotspot gateway is connected between the Internet connection and the wireless Access Point.

Figure 1.3



The configuration can be expanded using multiple Access Points to provide a larger wireless coverage as shown in figure 1.3. The pointHotspot Gateway can be simply connected between your new or existing network and the Internet.

## pointHotspot Gateway

The pointHotspot gateway is set up for communication with the pointHotspot Network Operations Centers authentication servers and management servers. The wireless user 'landing page' can be hosted in the Network Operations Center or at the customers' location.

The minimum device is e.g. a Linksys WRT54GL, Buffalo G125, Engenius 9752 or other compatible router using e.g. DD-WRT, OpenWRT, CoovaChilli firmware with Chilli access controller. The gateway can be gradually expanded to enable a larger amount of concurrent online users using e.g. Mikrotik's RB450G with 200 or more concurrent online users. In addition to the mentioned firmware/controller, we also support Mikrotik's RouterOS with hotspot controller.



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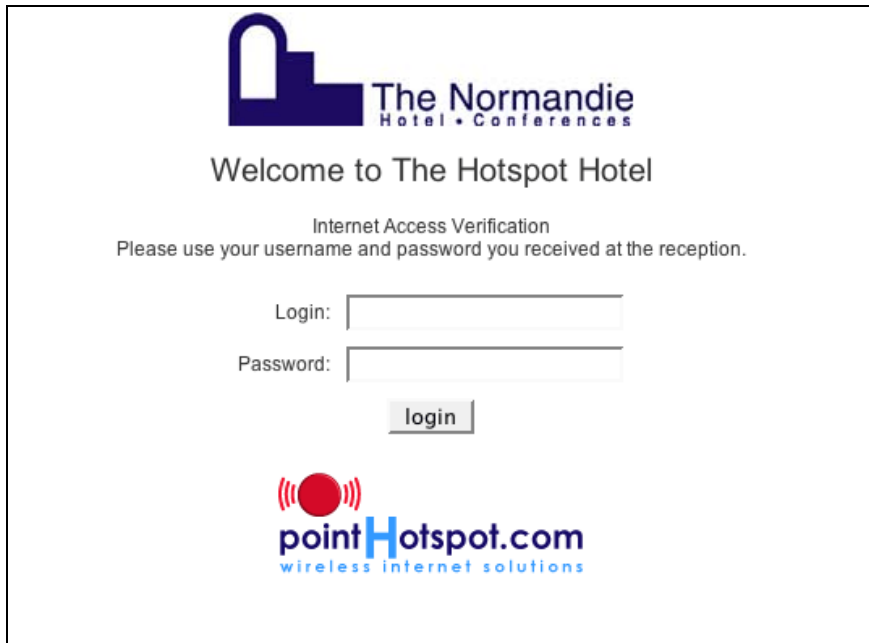
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## User Login Page (portal page)

- The login page can be hosted at the pointHotspot.com Network Operations Center, at the customer specified location (web site) or in certain type of pointHotspot Gateways.
- The page can be customized
- Either Username and Password or a single Token can be configured
- After log in, the page displays the remaining online time



Typical Online User Login Page

## Online User Accounts

pointHotspot provides two different type of user accounts:

1. **Fixed User Account**

e.g. 30 Minutes, 1 Hour, 1 Day, 1 Week, 1 Month or a Start and Stop time (Check-In/Check-Out) etc.

2. **Prepaid Card**

E.g. 30 Minutes, 1 Hour, 1 Day etc.

A fixed user account is active for a predefined time and the time starts counting after the first log in, while a prepaid card can be used over a period of three months and only the actual online time is being deducted from the purchased online time.



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## Prepaid Cards

Card Sample:

pointHotspot.com Prepaid Internet Card
<b>Username: megam160</b>
<b>Password: kollesek</b>
Access Plan: Prepaid 60 Min
Card by: My Business Name

In addition to our standard package we also offer a **Prepaid Card** feature. Prepaid cards can be created via the pointHotspot Control Panel and printed (e.g. 10 business card sized tickets per letter sized page) with your standard or POS printer using either standard paper or paper branded with your own design. The main differences between Prepaid Cards and User Account are:

### Prepaid Cards (Optional Feature):

- Prepaid Cards can be defined by the maximum accumulated online time, e.g. 1h, 2h, 5h 10h, 20h etc.
- Prepaid Cards are billed by usage (logon and time starts, logoff time stops)
- Prepaid Cards are valid for three (3) months after the first login
- **Prepaid Cards do not require an operator, they will be just sold and used until they expire**

### User Accounts (Standard Package):

- Operator staff activate the user account by selecting the Internet Access Package (e.g. 1h, 24h, 1 Week etc.) or the check-in and check-out time (start/stop package)
- Timer starts after the **first login** and stops exactly after the specified time, e.g. 1h, 24h, 7 days etc. no matter if the user is using the Internet or not
- User accounts (Login ID) should be for instance named like room10, room12, guest1, user01
- User accounts are created by the pointHotspot Administrator
- User accounts are managed (activated, password assignment etc) by staff members (Operator)

PREPAID CARDS (RECOMMENDED CARD NOMINATIONS)	
ITEM	DESCRIPTION
1	1 Hour
2	2 Hours
3	5 Hours
4	10 Hours
5	Others (to be defined)



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## pointHotspot Self-Service Option (Online Payments)

The pointHotspot.com Self-Service option provides the online payment interface and users simply create and manage their online accounts on their own. They can log into the Hotspot Customer Area and buy online time. Additional country specific payment gateways can be added.

pointHotspot.com - wireless internet...

pointHotspot.com  
wireless internet solutions

Account  
Buy Now  
Login  
Hotspot Logout

Online Internet Access Plan Selection

- Select your Online Access Plan
- Type: Fixed or Prepaid
  - Fixed accounts are for a fixed time starting from your first login
  - Prepaid cards are billed by the second and time only counts when logged in (valid for 3 months)
  - Time for prepaid tickets stops after logout or 1h timeout
- Local rates are converted to US\$ rates
- Once payment is received via PayPal, you can immediately log in and access the Internet
- pointHotspot.com is an authorized reseller, pointHotspot.com, accepts online PayPal and credit card payments.
- Services provided by Ultra Consulting Network Ltd. Sold by pointHotspot.com
- Please note that the purchased Access Plan is only valid at: pointHotspot.com

Select	Access Plan	Type	US Dollar
<input type="radio"/>	60 Minutes	Fixed	3.00
<input type="radio"/>	3 Hours	Fixed	7.50
<input type="radio"/>	24 Hours	Fixed	12.50
<input type="radio"/>	1 Week	Fixed	35.00
<input type="radio"/>	2 Weeks	Fixed	45.00
<input type="radio"/>	1 Month	Fixed	65.00

Continue

VISA MasterCard American Express Discover Bank of America PayPal

powered by pointHotspot.com

Done

Hotspot User Area – Internet Access Plan Selection

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wireless internet solutions

Account ID:   
logout

Help ?

Home  
User Management  
Prepaid Cards  
System Status  
Reports  
My Profile  
Accounting  
Administration  
Customer Support

Internet Service Plans for 00000000000000000000

Add New Service Plan

Active	Service Plan	Cost	Curr	eCom	Description	Del
<input checked="" type="checkbox"/>	60 Minutes	3.00	USD	<input checked="" type="checkbox"/>	60 Minutes Internet Access time	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	3 Hours	7.50	USD	<input checked="" type="checkbox"/>	3 Hours Internet Access time	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	24 Hours	12.50	USD	<input checked="" type="checkbox"/>	24 hours Internet Access time	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	3 Days	25.00	USD	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	1 Week	35.00	USD	<input checked="" type="checkbox"/>	1 Week Internet Access time	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	2 Weeks	45.00	USD	<input checked="" type="checkbox"/>	2 Weeks Internet Access time	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	3 Weeks	55.00	USD	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	1 Month	65.00	USD	<input checked="" type="checkbox"/>	1 Month Internet Access time	<input checked="" type="checkbox"/>

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Done

pointHotspot Internet Access Plan Administration



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## Fees

MONTHLY FEES (US\$)				
ITEM	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
1	<b>pointHotspot.com monthly(*) subscription</b> <b>Including</b> <ul style="list-style-type: none"> <li>- Control Panel Access at <a href="http://www.pointHotspot.com">www.pointHotspot.com</a></li> <li>- Customised Access Packages, e.g. 30m, 1h, day, month etc.</li> <li>- Up to 10 Administrator/Front-Desk manager accounts</li> <li>- 50 Internet Access User Accounts</li> <li>- Reporting facility</li> <li>- Web-based User Online/Offline/Expired/Suspended Status Monitor</li> <li>- Web-based Server Status Monitor</li> <li>- Staff access can be monitored</li> <li>- Email Support</li> <li>- Online help</li> <li>- Up to 200 prepaid tickets per month</li> </ul>	1	25.00	
2	<b>Online Payment Module for PayPal or Authorize.net</b> Including online signup and online hotspot customer area	0	15.00	
3	<b>25 Additional Internet Access User Accounts (monthly fee)</b>	0	15.00	
4	<b>5 Additional Administrator/Front-Desk manager accounts (monthly fee)</b>	0	15.00	
5	<b>Additional Access Points – monthly subscription</b>	0	10.00	
6	<b>200 Additional Prepaid Tickets – monthly subscription</b>	0	20.00	
SUB-TOTAL				

ONE-TIME FEES (US\$)				
ITEM	DESCRIPTION	QTY	UNIT PRICE	AMOUNT
4	<b>One time set up fee for main Gateway and Server</b>	1	49.00	
5	<b>pointHotspot Wireless Router (Access Gateway)</b>	1		
6	<b>pointHotspot Wireless Router (Access Point)</b> Used to extend the range of the Gateway (more on request)	0		
SUB-TOTAL				

You can use your own hardware (must match our specifications) and upgrade the firmware which we would supply.

**Note:** Current \$199.00 Special with a one year contract period with advanced payment (time limited offer) for new customers!

(\*) Monthly subscriptions require payments via PayPal's subscription service for automatic payments



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## Support

We provide a variety of support options, starting from email support, Live Support Chat up to telephone and remote assistance using *goToAssist*. Onsite support can not be offered at this point in time.

- pointHotspot support will be provided by Ultra Consulting Network Limited
- Standard Support is available Mon – Fri from 8 a.m. until 5 p.m. (GMT -4:00)
- Additional support coverage on request

## Definition of ‘Hotspot’

- A hotspot consists of a hotspot controller and one or more wireless Access Point(s)
- The amount of concurrent online users per hotspot determines the size of the hardware to be used
- The hotspot controller communicates with the pointHotspot authentication servers and the portal page server(s)
- Users are allowed or not allowed to roam between hotspots (pointHotspot configuration)
- Hotspot controller sends interim RADIUS updates to enable online status monitoring

Site survey, Installation and additional support services (Live Support) are not included in this proposal.

### Additional Services:

- Installation Assistance
- Remote Support
- Live Help for administrative staff
- Live Help for Clients

Please note that the wireless Gateway and Access Points are electronic devices which need to be operated within their specified environmental ranges, e.g. voltage, temperature, humidity and other external impacts.

Access Point installation, additional required cabling etc. is not included in this proposal.

In-house access points and gateways are not designed for outdoor installation. Outdoor equipment can be used to extend the wireless range. Ask for pricing for outdoor units.

Usually a user account will be assigned for each Internet user. These user accounts will then be managed via the pointHotspot.com control panel.

Each pointHotspot gateway/access point can be monitored remotely to optimise availability.

Please note that the Internet connection is required to function at all times in order to provide the pointHotspot.com service!

Ultra Consulting Network Limited reserves the right to apply modifications to the content and design of the web sites and other services without further notice. Further development will be implemented and activated after a successful testing period. We cannot guarantee 100% availability due to dependencies on our service providers and the Internet in general.

We accept online credit card payments, PayPal and wire-transfers.



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