## Add a Wireless Internet Hot Spot to your Hospitality Business



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### Welcome...



This document was compiled to help business owners make decisions about providing Internet access for their customers. We hope you find it helpful.

#### Public Internet Management Technology

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## What type of business can make money with a wireless Internet hot spot?



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Any business that provides services to people who are in temporary locations: travelers, vacationers, workers, visitors. Some examples are

- Resort: wireless, kiosks, wired rooms
- Hotel: wired rooms, conference areas, business centers, wireless for rooms
- Trade show: wireless for exhibitors and visitors, wired booths, kiosks
- Marina: wireless internet
- Internet cafe: wired kiosks, wireless
- RV park: wireless Internet
- Airport: wireless, kiosks
- Bookstore: wireless Internet
- Restaurant, coffee bar: wireless
- Golf club: wireless Internet

## How much money can a business make with a wireless Internet hot spot?



 The amount of money that can be made depends on several factors

- Technology awareness of potential users
- Users urgency to access information
- Users willingness to spend money + economic level
- Volume of potential customers + seasonality
- Locations that generate good cash flow
  - Airport: \$100,000/month
  - Resort: \$20,000/month
  - Marina: \$5,000/month
- Some locations have to give free Internet to attract customers although money can still be made
  - Hotel: usually free Internet with advertising revenue
  - Coffee bar: free Internet with advertising revenue

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# Can a hot-spot provide free Internet and still make money?: how?



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- Login (Splash) page banner advertising can make money if a group of businesses close to the wireless Internet hot spot want to communicate with the hot spot users
- Example: a hotel gives free Internet to attract customers
  - Free Internet is a competitive advantage so the hotel provides free wireless Internet to all rooms
  - Logon (splash) page has 12 banners
  - User is logged out after 30 mins, has to log in again
  - Hotel offers advertising to local businesses: restaurants, take away pizza, dry cleaners, travel agents, taxi cabs, theater, cinema, shopping mall
  - Option of click through to advertisers web site
  - Example; charge \$150 /banner/month with click through or \$75 /banner/month with no click through
  - Advertising sales can be from \$900 to \$1800 /month

## How are customers billed?



Hot-spot customers will purchase an access code in various formats

- Codes printed onto customers documents
- Customers purchase codes on-line with credit card
- Customers buy pre-pay scratch cards
- The easiest approach is to resell pre-pay scratch cards
  - Scratch cards have different expiration times and can be sold for different prices

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- Mark-up from 500% to 5000%
- 1-hour, fixed
- 1-day, fixed
- 1-week, fixed
- 6-hours, open

Custom cards can be made – With your graphics



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6

# Can I improve customer loyalty with a wireless Internet hot spot?



- Offering Internet access will attract additional customers
- Access codes are fixed or open: a fixed code expires at a set time after first being used
  - Hotels sell 1-day fixed codes as rooms rent per day
- Open codes have a fixed number of hours, however the customer can logout and reuse the code many times until the time expires
  - Some business thrive on recurring sales; restaurants, coffee bars
  - Sell a 6-hour open code that can be reused another day to attract the customer to return
  - Give special offers to increase sales
    - Buy 3 items to get 1-hour free Internet access
    - Access codes are very cheap (scratch cards) or free (download) so the cost to increase sales is very low

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# How is the wireless Internet hot spot connected to the Internet ?

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Low cost options are available in most locations

- ADSL service from the phone company <\$100/mo</li>
- Cable modem service <\$100/m</p>
- Remember to get a business account that permits resale otherwise the supplier may cut the service
- What about locations outside the range of DSL (>5 miles from the exchange) or where no cable is available
  - Lease a T1 circuit that uses standard telephone lines, this will cost around \$500/mo
    - Point to point wireless link to a location with DSL

What about a location with no telephone lines

- Check data satellite coverage
- Directway covers USA and Bahamas
- Wildblue covers most of USA
- Satellites have a long delay so no good for VoIP

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# What equipment is needed for a wireless Internet hot spot?



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- Decide first how Internet access will be delivered to the customer and then determine what wireless Internet hot spot equipment is required
  - Short range or long range wireless access for the customers laptop
  - Wired Ethernet for the customers laptop
  - Provide a business center desktop computer for the customer
  - Provide a dedicated *Internet kiosk* for the customer: this is a special purpose durable terminal that is designed for constant use
  - Provide a wireless bridge/router for a trade show booth
  - Each business has special requirements
    - A resort customer might want Internet access 2 miles down the beach (yes we have the equipment)

### What equipment: Small scale scenario



A small wireless Internet hot spot deployment example
 Coffee bar, customer area is 1500 ft sq.

- One medium range access point with a built in patch antenna is required with billing software installed
   – Equipment cost < \$200</li>
- The access point can be installed in the corner of the room, pointing diagonally across the room
  - The access point is powered via the Ethernet cable (PoE): makes wiring easy
  - The access point is connected to the ADSL router <u>– Set access point SSID to your business name</u>
  - Sell pre-pay 6-hour open scratch cards to customers – Cost: 75c each, retail for \$7.50 each (example)

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### What equipment: Large scale scenario 1



• Full service resort with 20 acre campus

- Provide wireless Internet access for: 4 miles of beaches, 2 pools, 3 restaurants, 4 bars, 1 theater, business center, indoor public games area, outdoor public games area, reception area, guest apartments (wired), staff apartments (wired),
- The network manager must be informed immediately if any equipment fails, plus remote configuration

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- Equipment (Avansu software installed for billing, alarm)
  - 3 routers for wired staff and guest apartments and business center computers
  - 3 high power long range access points with sector antennas, mounted on a tower for beach and outdoor public area
  - 12 medium range indoor/outdoor access points with integral patch antennas for other areas, wired to T1

## What equipment: Large scale scenario 2



Approximate investment costs are

- Network equipment: \$8500
- Installation services: \$20,000
- Staff training: \$10,000
- Total investment: \$38500
- Income generated by this scale of resort installation
  Income: \$20,000/month

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- Ongoing operating costs (approximately \$4000/month)
  - Customer support: \$1000/month (very important)
  - Two T1 circuits: \$1000/month
  - On going staff training: \$800/month
  - Depreciation of equipment: \$500/month
  - Network maintenance: \$500
  - Avansu software subscription: \$179
  - Payback of investment: < 3 months

## What equipment: Multiple sites



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- A business that has multiple sites can operate a wireless Internet hot spot at each site but manage the system as one large multi-site hot spot
- Hot spot management software permits network equipment to be managed individually or in groups (sites)
  - Track performance of devices
  - Track performance of device groups
  - Overall operating costs can be reduced for multiple sites
    - One customer support line for all sites
    - Central maintenance coordination
    - Central updating of devices at remote sites simultaneously

# What if the wireless Internet hot spot breaks?



• If the hot spot equipment breaks then two things happen

- Billing stops = revenue loss
- Customers will get angry and frustrated
- Real-time failure monitoring
  - Equipment monitoring tools like Avansu have real time failure monitoring: on failure...
    - Trouble ticket email sent to network manager
    - Text message work order sent to field techs cell phone

### Redundant equipment

- Equipment costs have fallen: an outdoor wireless devices costs < \$200</li>
- Install 2 instead of 1: installation cost (greatest expense) will be almost the same for 2 as for 1
- When a unit fails then the network manager activates the redundant unit immediately

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## What about accounting and reports?

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wireless Internet hot spot management software packages include reporting)

- Fire4 software provides several reports
  - Node (device) traffic stats
  - Node (device) billing record
  - Node (device) credit card processing record
  - Device group traffic stats
  - Device group billing record
  - Device group credit card processing record
  - Download billing/CC reports as CSV files, import into applications like Excel and Quickbooks
  - Access code verification report
  - Network inventory (graphical)
  - Node configuration report

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### How much will it cost ? (using coffee bar example)

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Coffee bar

- Equipment: \$200
- Billing system: Avansu free account
- Resell 6h scratch cards: cost 75c, retail \$7.50
- Internet DSL: \$75/month (share with other equipment)
- Maintenance \$0
- Customer support: \$0

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- For 20 customers/month, income
  - Net; \$60/month, payback on investment < 3.5 months</li>
- For 100 customers/month, income
  - Net; \$600/month, payback on investment < 2 weeks</p>
- For 500 customers/month, income
  - Net; \$3300/month, payback on investment < 2 days</p>

## How much will it cost ? (using resort example)



- Resort example (Caribbean)
  - Guests wanting Internet access are charged \$50/week
- Total investment (includes equipment, installation and training)
  - \$38,500
- Monthly operating costs (support, maintenance)
   \$4,000

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- Monthly gross sales (via pre-pay scratch cards)
   \$20,000
- Monthly net income
   \$16,000
  - Time for payback on investment **2.5 months**

# What is required to install a wireless Internet hot spot?



• A small installation like a coffee bar will take 1 hour

- Time will be saved by using equipment that is powered over the Ethernet cable: this avoids having to run power to the location of the access point
- Remember that the access point is placed in a location that is good for the antenna
- A large installation like the resort example might take 1 month to install: there are many tasks
  - Install long range wireless equipment on a mast and medium range equipment at each location
  - Run cat-5 cable from the server room to the mast
  - Run cat-5 cable to all access point locations
  - Run cat-5 cable to all rooms
  - Run cat-5 cable to the business center
  - Staff training to sell Internet, and answer questions
  - Train customer technical support staff

·**18** 

**Public Internet** 

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provides Internet access for the public

then we can help you offer a better service.

reduce your cost, improve income and generate new sales

## How should I start with a wireless Internet hot spot?



Always start small with the minimum investment 0

- Learn how the technology works
- Learn how to support customers \_\_\_\_
- Test different Internet selling strategies
- Talk to customers, ask if they like the service
- How many customers will use the Internet/month?
- Analyze the financial results, cost, sales, profit
- Is the wireless Internet hot spot system is reliable?
- Is system performance adequate (any complaints)?
- Verify the results against initial expectations
  - Were expectations met or exceeded?
    - No: cut your losses, stop the service
    - Yes: plan how to expand based on your new data

Expand carefully, test and verify at every step That way you avoid surprises and mistakes Copyright © Fired Systems Inc 2008. All rights reserved

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## How can I grow the wireless Internet hot spot sales?



• The income from your wireless Internet hot spot is limited by the number of customers who want Internet access

- What % of total customers use the Internet?
- Offer a free trial to increase this %

Will local companies want to advertise to your customers
 Sell hot-spot banner advertising

 Sell computer accessories to wireless Internet hot spot users

- USB wireless devices for lap top owners
- USB storage devices are also popular
- Sell additional services to hot spot users
  - Access to a printer; charge per page printed
    - Customers can print maps and itineraries
  - Photo printer so customer can print vacation photos Copyright © Fire4 Systems Inc 2008. All rights reserved

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## How will the wireless Internet hot spot help my business?



 How can the overall sales of the business be improved with a wireless Internet hot spot

- Advertise that Internet is available: some customers make travel decisions based on availability of the Internet
- Will free Internet attract customers from nearby competitors?
- Can services /products be sold through the hot spot (e.g. resorts can have on-line reservations for trips)

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- Make the wireless Internet hot spot log-in page an extension of your web site
  - Make sure customers are familiar with your web site
- Use the Internet to improve customer loyalty
  - Free Internet voucher for next visit
  - Free Internet voucher for referrals to friends

# What new business opportunities can a wireless Internet hot spot bring?



- Many types of businesses can use wireless Internet hot spots to develop new opportunities
- Example: Golf club
  - A golf club can provide wireless coverage of the golf course
  - Golf carts can be fitted with laptop computers
  - Golfers want access to information while playing
    - Business emails
    - Golf course information
    - Weather information
    - Etc.
  - Charge extra for the "intelligent golf cart" service
- How can your business branch into new services with the Internet?

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### What are the biggest obstacles?



Business owners lack technical understanding of wireless
 Internet hot spots

- Hire a part time high school kid who knows about networks and can set up a low cost hot spot test; then ask customers what they think about the service
- Business owners think that the equipment and software is too complicated to set up and operate
  - Most hot spot systems are very complicated because they can do many different things
  - Look for products like "hot-spot-in-a-box" products are available that are truly plug and play
- Customers ask too many questions and complain when their computers do not work
  - Customer support is a serious issue: if that high school kid is smart keep him/her on part time
  - Outsource support to a specialized company that provides a 1-800 number. For a hotel they charge about \$100 per room per year

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### **Summary**



 Wireless Internet hot spots can provide additional profits for some businesses

 Some business segments will clearly make good hot spot profits: airports, resorts, etc.

 Some businesses can improve performance by offering a free wireless Internet hot spot service

 Internet access has become a competitive differentiator for business segments like hospitality

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 Some businesses are borderline, a wireless Internet hot spot will be a loss, break even or maybe a small profit

 Make very careful tests with minimum investment before expanding the service

### For more information .....



Products for public Internet networks:

Fire4 Systems Inc. – <u>www.fire4.com</u> Tel: 305-558-8773

Hospitality industry public Internet solutions

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