

## **Hot Spot and User Manager**

An easy approach to Internet access in tourist places

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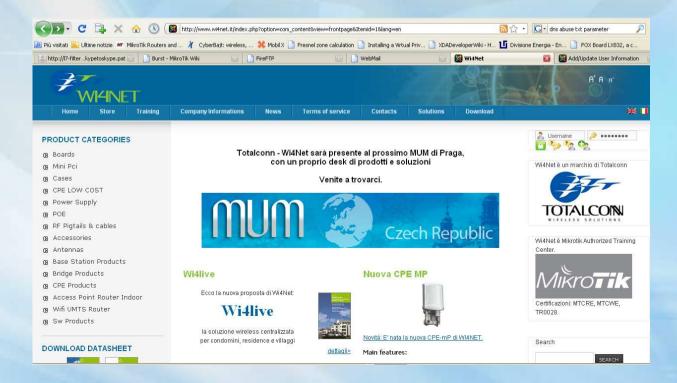
#### **Andrea Grittini**

- Graduated in Computer Science
- Working with wireless since 2003
- Startup of one of the first Italian WISP
- Mikrotik distributor since 2005
- Microsoft MCP
- Mikrotik Certified in Routing and Wireless
- Mikrotik Certified Trainer



#### Wi4Net - Totalconn

- Mikrotik Italian distributor
- Training and consulting
- Building Certified Devices for EU market
- Power supply solutions
- Ecommerce Web site www.wi4net.eu or .it



**Totalconn** 

WIRELESS DEVICES

Base Station solution:

Point-to-Point integrated antennas

CPEs







#### **Topics**

- What are Hotspots?
- Where installed
- Hotspot Quick setup
- User Manager: an easy way to manage centralized access
- Logging and accounting
- SMS approach
- Conclusion



#### Hotspot

- It is RouterOs tool for Instant Plug-and-Play Internet Access
- HotSpot provides authentication of clients before access to public network
- It also provides User Accounting
- It is very EASY to setup



#### **Hotspot: Where**

- Hotel, restaurant, café
- Shopping Mall,
- Public Park and areas,
- Camping, Beach
- Marinas
- Hospital
- Municipal Hotspot
   ... where you want





#### **Hotspot: When**

- During meeting in conference room
- In the summer at the beach
- In the winter in ski places
- At the week-end in parks and open spaces

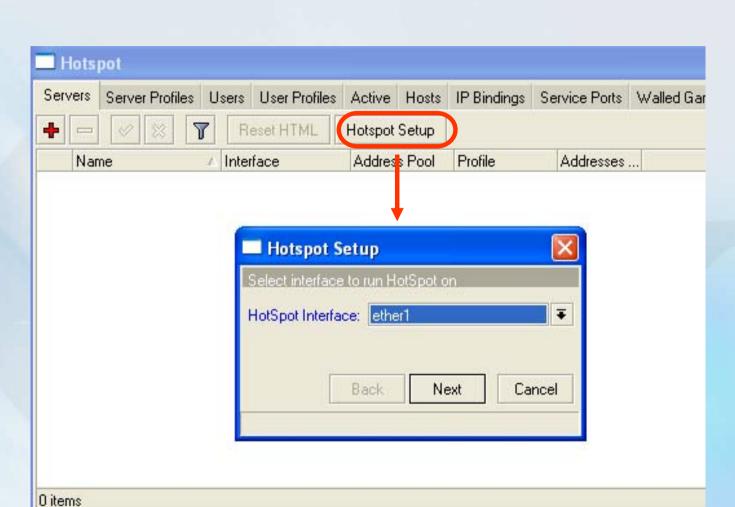
...not all the places need connectivity for all the year round



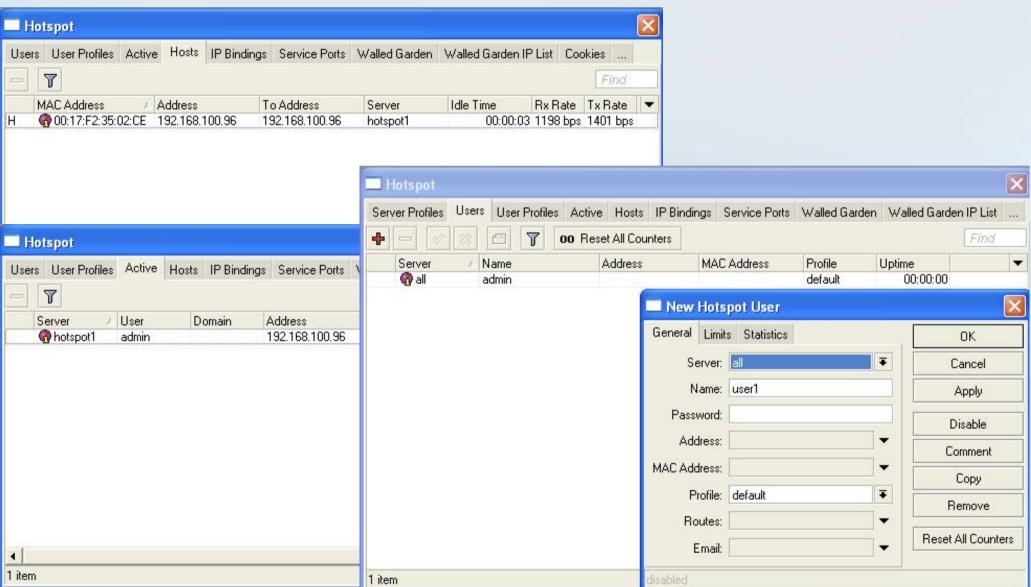
#### **Hotspot Setup**

- Easy wizard tool
- It is similar to DHCP server setup
- Just select the interface and answer to questions

## **Hotspot: setup wizard**



## **Hotspot: functionality**

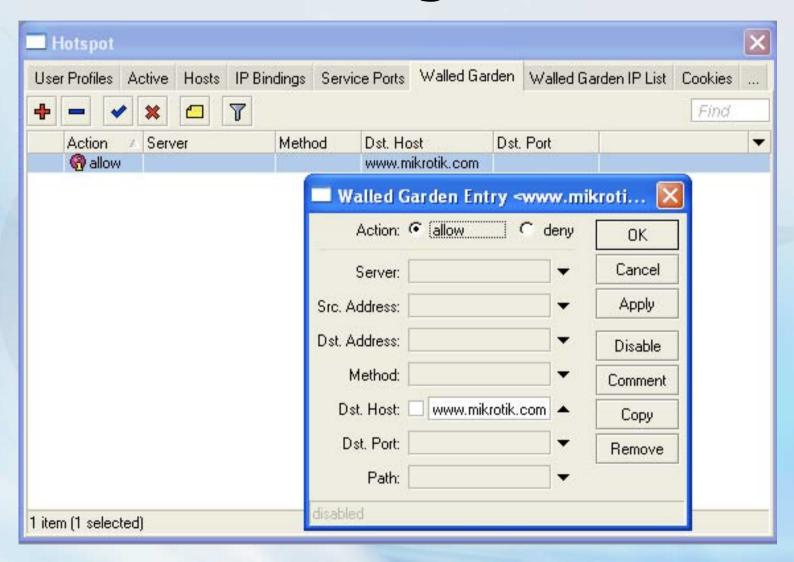


# **Hotspot Walled Garden**

- Tool to get access to specific resources without HotSpot authorization
- Can be used for Advertising web site
- For Online payment website



#### Walled garden





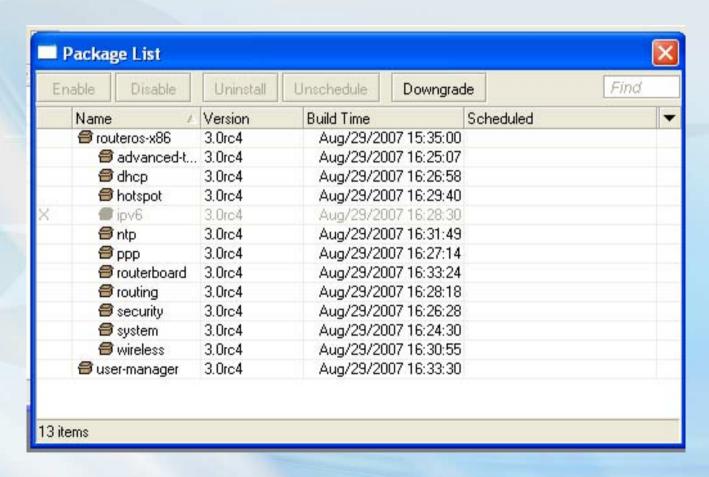
#### **User Manager**

- User Manager is a **Radius** server for processing authentication and for accounting
- Installable as a RouterOs package
- A new version to be released soon



#### **User Manager**

Package





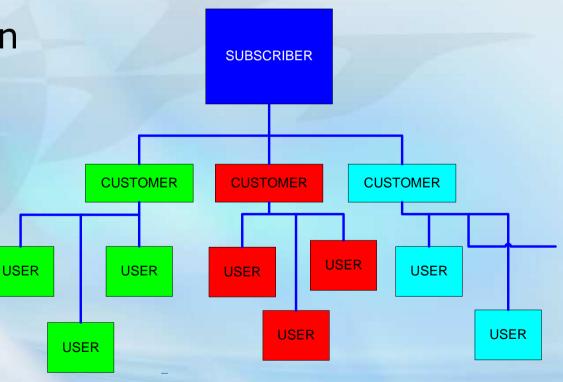
- Together in the same gateway machine
- In a separate authentication server
   (to be connected to the hotspot via radius client)



#### UserMan: multi-site

- One UserMan installation can control several gateway site
- Local customer can administer their own users

Color=different site



# Logging and accounting

- Due to anti-terorrism regulations, many countries now require the WISP or Internet Point to keep information about:
  - Who is connected
  - When they connect to the system
  - Which website users have visited
- User must provide Identity Card or other legal infos to get access to an Hotspot

# Logging and accounting

- User Manager supplies logging and accounting informations for the connected users:
  - When they were connected
  - How many time have used
  - How many bandwith
- RouterOS through Firewall or Proxy provides information about websites accessed

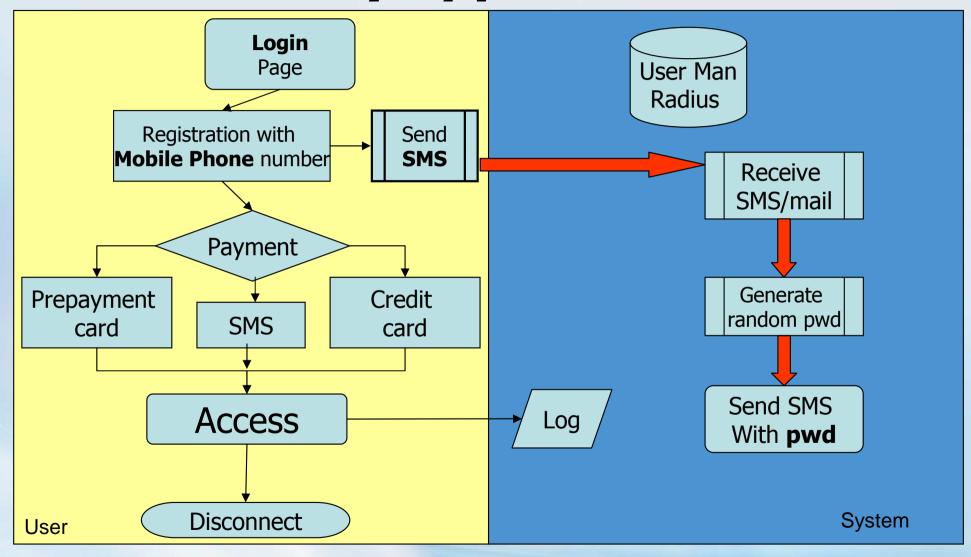
# ROUTER OS IS COMPLIANT TO ALL OF THE REGULATORY RULES!

# User Manager: easy approaches below to the second s

- Mobile phone is used by 110% of people
- SMS is an easy tool to get information about users
- SIM infos are validated by mobile operators before customer gains access to telephone line



## Easy approach





#### Wi4Mobile

- It is a small device that does all these things:
  - Wifi 802.11abg access point
  - GSM/GPRS UMTS/HDSPA modem
  - Hotspot
  - Usermanager
  - Send SMS
  - Provide backup line
  - RouterOs inside





#### Conclusion

- Hotspot and UserManager are powerful tools to quickly setup an Internet Access infrastructure
- With some tools it will be compliant to all local regulations
- SMS can help to deploy an unattended HotSpot access





### Thanks for your attention!

Visit our stand Wi4Net – Totalconn www.wi4net.eu

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