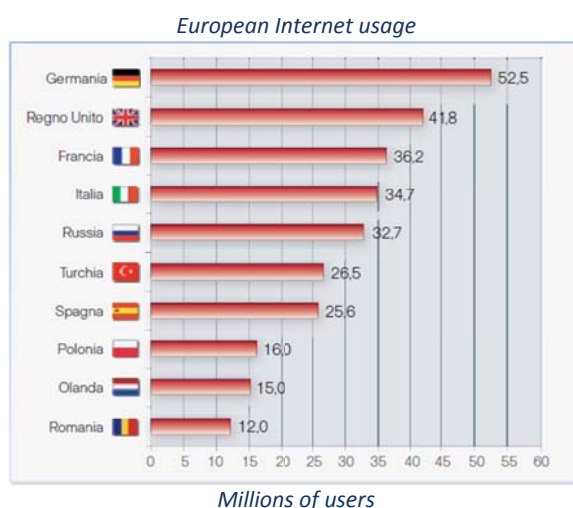


❑ CARRIER WIFI MARKET HIGHLIGHTS

The global revenue from Carrier Wi-Fi equipment, including mobile Wi-Fi access points, Wi-Fi hotspot access points, and Wi-Fi hotspot controllers, has grown of about 35% in 2012.

Mobile Wi-Fi access points are expected to experience the highest compound annual growth rate of 86% till 2016, as Mobile Operators are considering a deeper integration of Wi-Fi within their mobile network.

The global forecast of Carrier Wi-Fi equipment market is expected to grow in the high double digit percentage annually, at least till 2016.



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❑ WIFI MARKETING ANALYSIS

The Carrier Wi-Fi equipment market has grown consistently since 2007, initially driven by the exploding demand from Mobile Operators, increasing their 3G and 4G network deployments with Wi-Fi hotspot services.

The strong new growth pushes some Mobile Operators, deploying carrier Wi-Fi, to offload a portion of their mobile data traffic.

Cable and DSL operators use Wi-Fi as an enhancement for their broadband services, and many Operators will soon be upgrading their existing access points.

Furthermore, many WISP are providing their services using new Wi-Fi products, giving more networks efficiency in terms of authentication services.

❑ OUR MARKET PROPOSAL

3TS offers an highly flexible and configurable RADIUS server based on Free RADIUS v2.x with web-based management GUI named UnifiZone®

UnifiZone includes the Captive Portal shown to the users during the first tentative on get access. As option, the Portal send the credentials via SMS and include Credit Card or Paypal payment methods.

Captive Portal can be also customized even for the single Hotspot with media contents and advertising information according to the location of Hotspot.

UnifiZone provides professional and easy to use solutions for WISP and ISP Operators and offers a complete control of the network and management of authentication, authorization and accounting of users. It supports:

Different authentication methods

- ✓ UAM with Captive Portal (Wi-Fi Hotspot scenario)
- ✓ PPPoE (typical for xDSL scenario),
- ✓ PAP/MSCHAP
- ✓ mOTP (mobile OTP)

Wi-Fi Area restriction policy

Enabling user to get the access rights only in defined Hotspot areas

Reseller functionality

Enabling to manage three multilevel chains: wholesaler, reseller, operators

Ubiquiti Hotspot solutions

UnifiZone supports natively the Ubiquiti system. With its exclusive indoor design, can be adopted as perfect solution for ceiling or wall mounting system. It combines:

- ✓ The performance of the system with an unlimited scalability.
- ✓ A centralized management system and a network access control for guest access.
- ✓ UniFi is one of the first 802.11ac dual band access point capable to carry out a significant performance improvement on Wi-Fi throughput, achieving 370 Mbps.
- ✓ AirMAX TDMA protocol on top of Wi-Fi MAC Layer provides performance improvement in terms of Latency and QoS, carrying a better service availability for Voice and data transport.

❑ **ENTERPRISE SOLUTION (VMWARE)**

In the VMware solution the customer need to have a Server in order to install the Remote Radius. 3TS can also provide the Radius Server in case of specific request.

UnifiZone can be configured as multi Admin Users in case of Resellers program.

VMware is a complete and independent solution for the WISP and ISP having own transport network with a Server farm where to install the Radius System.

Such solution needs an Activation Fee (it doesn't includes the Hardware for Radius Server) that includes **One Single Admin User and up to 5.000 Users.**

VMware solution, in order to prevent long outage time, allows to make a fast and secure backup restoring on whole Radius system.

The Care support helps to maintain the Radius Server. 3TS offers different Service Level Agreement subscribed according to the network size.

Basic Configuration

Radius supporting:

- ✓ Single Admin User
- ✓ Up to 5000 Users

Captive portal supporting :

- ✓ Users Self SMS Registration
- ✓ Social Network Authentication
 - Facebook
 - Google plus
 - Twitter
 - LinkedIn
- ✓ Paypal Payment methods
- ✓ Password Recovery
- ✓ Captcha antispam system
- ✓ Geolocalization

Advanced Features (optional)

- ✓ Up to 1000 Users more
- ✓ mOTP (mobile OTP)
- ✓ EAP TTLS
- ✓ Reseller functionality (Multi Admin User)

Technical Support (optional)

- ✓ **SLA available:** Bronze – Silver – Gold



❑ FIRMWARE ON TOP SERVICES

3TS provides the Firmware for all M-Series of Ubiquiti Devices (AIRMAX), Titanium Series and Airouter. Unifi systems support an external Radius AAA through the Airouter.

The License fee is based on Hotspot Packages.

❑ OPTIONAL ON TOP SERVICES

As optional, 3TS provides a SMS gateway integrated with the Captive portal for users' self-registration and password recovery via SMS.

The License fee is based on SMS Packages.



❑ RADIUS SERVER HARDWARE SPECIFICATIONS

Minimal Hardware Requirements:

- ✓ Rack 1U 19inch or ETSI Standard
- ✓ Double Power Supply
- ✓ Motherboard with double ethernet card supporting 10/100/1000Mbps
- ✓ Intel © Processor at 1,6GHz
- ✓ 1GB Ram
- ✓ 3 HardDisk 73GB
- ✓ RAID5 configuration (recommended)

❑ RADIUS SERVER SOFTWARE SPECIFICATIONS

- ✓ Billing Management
- ✓ Graphic User Interface
- ✓ Report and Logging
- ✓ Backup & Restore
- ✓ SMS Gateway (optional feature)
- ✓ Integrated Captive Portal

❑ HOTSPOT HARDWARE SUPPORTED (*)

- ✓ Nano Station Loco M
@2GHz 802.11b/g/n and @5GHz 802.11a
- ✓ Nano Station M
@2GHz 802.11b/g/n and @5GHz 802.11a
- ✓ Bullet M
@2GHz 802.11b/g/n and @5GHz 802.11a
- ✓ Pico Station M
@2GHz 802.11 b/g/n
- ✓ Rocket M
@2GHz 802.11b/g/n and @5GHz 802.11a
- ✓ Bullet Titanium M Series
@2GHz 802.11n and @5GHz 802.11n
- ✓ AirRouter
@2.4GHz 802.11b/g/n
- ✓ Unifi AP LR
@2.4GHz 802.11b/g/n
Dual-Radio @2.4GHz 802.11b/g/n and @5GHz 802.11a

(*) Antennas are available on Customer request.

Enterprise Solution (VMware machine)

License Activation Fee	€			
Basic Features	License Annual Fee per single feature	SLA Annual Fee per single feature		
		<input type="checkbox"/> Bronze (3WDs)	<input type="checkbox"/> Silver (2WDs)	<input type="checkbox"/> Gold (1WD)
Radius supporting: <ul style="list-style-type: none"> ▪ Single Admin User ▪ Up to 5000 Users Captive portal supporting : <ul style="list-style-type: none"> ▪ SMS Registration ▪ Social Network Authentication <ul style="list-style-type: none"> ▪ Facebook ▪ Google plus ▪ Twitter ▪ LinkedIn ▪ Paypal Authentication ▪ Password Recovery ▪ Captcha antispam system ▪ Geolocalization 	Included	€	€	€
Advanced Features	Additional License Fee per single feature	SLA Additional Annual Fee per single feature		
		<input type="checkbox"/> Bronze (3WDs)	<input type="checkbox"/> Silver (2WDs)	<input type="checkbox"/> Gold (1WD)
<input type="checkbox"/> 1000 Users add package	€	€	€	€
<input type="checkbox"/> mOTP (mobile OTP)	€	€	€	€
<input type="checkbox"/> EAP TTLS	€	€	€	€
<input type="checkbox"/> Multi ADMIN	<input type="checkbox"/> Up to 3 Admin Users	€	€	€
	<input type="checkbox"/> Up to 5 Admin Users	€	€	€
	<input type="checkbox"/> Up to 10 Admin Users	€	€	€

Release Date: October 2013			Business Model
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Activation License fee for each firmware of Ubiquiti devices

Description	Standard Functionalities	Enhanced Functionalities
	Unit Price	Unit Price
Up to 50 Firmware license	18 €	25 €
From 51 up to 100Firmware license	15 €	22 €
From 101 up to 1000 Firmware license	13 €	20 €
More than 1001 Firmware license	10 €	16 €

Optional Packages for all WiFi Solutions





Description	SMS Authentication	Facebook Authentication
	Package Unit Price	Package Unit Price
500 Units Pack	75 €	32 €
1000 Units Pack	150 €	75 €
2000 Units Pack	300 €	150 €
5000 Units Pack	750 €	375 €
10000 Units Pack	1.200 €	600 €
20000 Units Pack	2.000 €	1.000 €
50000 Units Pack	5.000 €	2.500 €

Standard Functionalities include Hotspot features excluded Social Networks authentication.

Enhanced Functionalities include Hotspot features plus Social Networks authentication.





Release Date: October 2013	Prices Valid till: December 2013	VAT Excluded	Delivery Expenses: Excluded
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Ubiquiti Pricebook (firmware excluded)

Product Image	Description	Unit Price
	Nano Station Loco M2GHz 802.11 b/g/n (includes POE, not includes Pole/Wall Mounting Kit)	45,90 €
	Nano Station Loco M5GHz 802.11 a (includes POE, not includes Pole/Wall Mounting Kit)	59,50 €
	Nano Station M2GHz 802.11 b/g/n (includes POE, not includes Pole/Wall Mounting Kit)	80,60 €
	Nano Station M5GHz 802.11 a (includes POE, not includes Pole/Wall Mounting Kit)	84,50 €
	Bullet M2GHz 802.11b/g/n (not includes POE)	71,00 €
	Bullet M5GHz 802.11 a (not includes POE)	74,00 €
	Pico Station M2H 802.11 b/g/n (includes POE, includes Mounting Wall)	75,60 €





Release Date: October 2013	Prices Valid till: December 2013	VAT Excluded	Delivery Expenses: Excluded	Delivery TIME : 15 days
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Ubiquiti Pricebook (firmware excluded)

Product Image	Description	Unit Price
	Rocket M 2GHz 802.11b/g/n (includes POE)	86,30 €
	Rocket M 5GHz 802.11a (includes POE)	80,00 €
	Bullet serie Titanium M5GHz 802.11n (includes POE)	104,50 €
	AirRouter 2.4GHz 802.11b/g/n (includes Power Supply)	40,00 €
	Unifi AP LR 2.4GHz 802.11b/g/n (includes POE, controller extern needed)	89,90 €
	Unifi AP dual radio 2.4GHz 802.11b/g/n 5GHz 802.11a (includes POE, controller extern needed)	200,60 €




Release Date: October 2013	Prices Valid till: December 2013	VAT Excluded	Delivery Expenses: Excluded	Delivery TIME : 15 days
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Antennas Pricebook

Product Image	Description	Unit Price
	Omnidirecional Ubiquiti Antenna MIMO 2x2 for Rocket 2GHz [10dBi]	177,00 €
	Omnidirecional Ubiquiti Antenna MIMO 2x2 for Rocket 2GHz [13dBi]	265,00 €
	Omnidirectional Antenna 2GHz for Bullet [12dbi]	56,00 €
	Sectorial Antenna Ubiquiti 120° MIMO 2x2 for Rocket 2GHz [15dBi]	148,50 €
	Sectorial Antenna Ubiquiti 90° MIMO 2x2 for Rocket 2GHz [16dBi]	148,50 €
	Sectorial Antenna Ubiquiti compatible 120° MIMO 2x2 for Rocket 2GHz [13dbi]	87,00 €
	Sectorial Antenna Ubiquiti compatible 90° MIMO 2x2 for Rocket 2GHz [14dbi]	87,00 €

Release Date: October 2013	Prices Valid till: December 2013	VAT Excluded	Delivery Expenses: Excluded	Delivery TIME : 15 days
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Accessories Pricebook

Product Image	Description	Unit Price
 	Power injector 15V/0.8A (richiesto per BulletM2HP e M5HP)	11,00 €
	Power injector 24V/1A	14,00 €
	Universal Wall/Pole Mounting Kit for NanoStation e NanoStation Loco	9,00 €

NOTES:

- Firmware support all M-Series of Ubiquiti Device (AIRMAX) , Titanium Series and Airrouter
- Unifi system supports external Radius AAA through the Airrouter

Release Date: October 2013	Prices Valid till: December 2013	VAT Excluded	Delivery Expenses: Excluded	Delivery TIME : 15 days
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