

# Redama

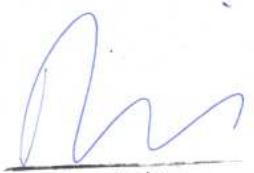


Riccardo Giuntoli (Redama)  
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## TECHNICAL PORTFOLIO RICCARDO GIUNTOLI



Redama  
la red que te ama  
**Riccardo Giuntoli**  
CIF. X9770628K  
938 962 775



## 1.0 Personal information.

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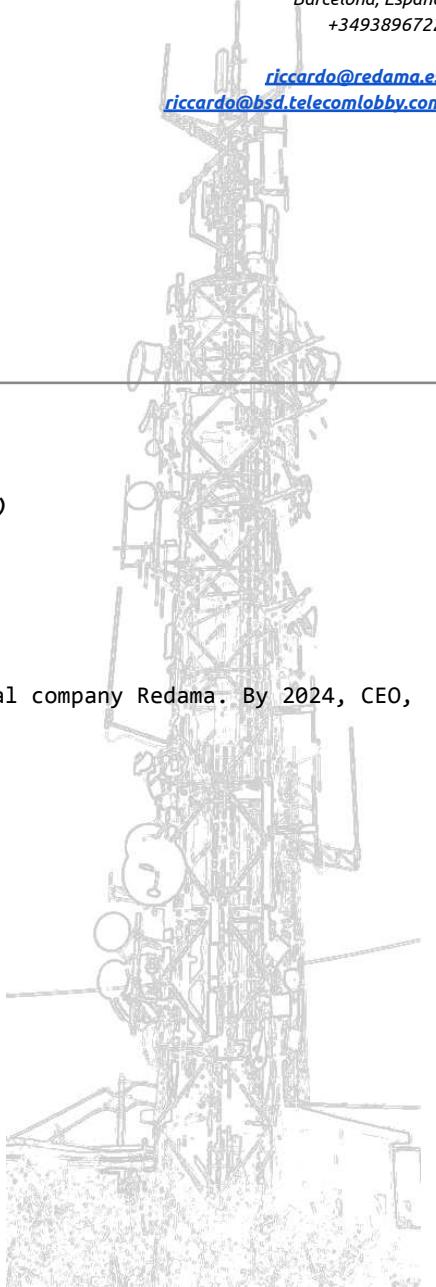


**Riccardo Giuntoli** (*a knight of open source*)

Born on March 31, 1981 in Genoa, Italy.

By 2022, self-employed, founder of the commercial company Redama. By 2024, CEO, founder of the company BSDTelecom Lobby, SL.

- Senior systems and networks.
- Unix and Security Senior.
- Senior in telecommunications.





## 2.0 Work Experience.

01/01/2002 ~ 01/01/2006

### Freelancer: systems administrator.



6shells, Genova (Italy)

PHN: [www.6shells.net](http://www.6shells.net)

LHN: [dragon.6shells.net](http://dragon.6shells.net)

*It was my first work experience. Together with some colleagues of IRCNet we rent a dedicated server in Germany and, using the FreeBSD system operative that in those years was at the fourth release, we build a service provider that gives to his customers access to the IRC and EFNet using BNC proxy. I was doing my first experiences in IT security, in PHP, bash and Perl programming and especially in the implementation of the IPv6 network stack that in those days was known as the 6BONE network where I was identified as RG581-6BONE. I was also doing my first experiences in the field of DDOS mitigation like you can appreciate at the URI:*

- <https://Lists.freebsd.org/pipermail/freebsd-questions/2005-June/089975.html>

01/01/2004 ~ 01/01/2007

### Freelancer: programmer.



Elsag Datamat, Genova (Italy)

Languages: Javascript, AJAX, XHTML, PHP, SQL.

Framework: [www.openworkbpm.com](http://www.openworkbpm.com)

*In Elsag, a company that have like 3 thousands employees, i was collaborating a couple of years to implement a workflow ERP using the framework OpenWork*



01/01/2004 ~ 01/01/2008

## CEO of the firm **BSDinformatica**.



BSDInformatica, Genova (Italy)

PHN: [www.bsdinformatica.biz](http://www.bsdinformatica.biz)  
LHN: [thunderbird.bsdinformatica.biz](http://thunderbird.bsdinformatica.biz)

*BSDInformatica was my first company. Moreover than two big jobs that i've done, one in Elsag Datamat that i've explained and the other in the maritime company Gruppo Messina S.p.A., my work was focused over the sell of hosting services using a pair of dedicated remote server configured with FreeBSD and over of the developing of web applications for marketing, selling and utility purposes in the Genoa's market. The program Languages that I used to implement were: XHTML, PHP, SQL, AJAX, XML, XML-DOM, JAVASCRIPT, JAVA.*

01/01/2008 ~ 01/01/2013

## Head of Technical and Commercial Department **34Telecom, S.L.**



34T, Barcelona (Spain)

PHN: [www.34T.com](http://www.34T.com)

*In 34Telecom i've the great opportunity to understand and study the radio waves networking world. The company was a reseller of the Lobometrics firm and gave technical support to South America and Europe. I was engaged in the department and also I was doing face-to-face courses or by Internet (video conferencing). I arrived to obtain an invitation by the Cuban government to grow the network infrastructure of the state. Other than that I was collaborating with the military forces of Nicaragua to implement a reserved 4GHz backbone. Also I was doing remote configurations of VPN IPSec PTP, PtMP and roadwarrior with Zyxel equipment and hotspot 4IPNet. Lobometrics runs the Mikrotik system operative that I know deeply. I daily used software to prove external radio coverage with GoogleEarth and RadioMobile.*

01/01/2009 ~ 01/01/2013

## Freelancer: Advanced SAT wireless networks.



iCode consultors, S.L.U., Barcelona (Spain)

PHN: [www.icode.es](http://www.icode.es)

*In iCode Consultors always i was in a great working relationship. I obtained the opportunity to execute many important projects like:*

1. *Casino de Torrelodones, Madrid: MESH radio network for IoT connection; Layer two using Cisco IOS in Catalyst systems; Layer three using IOS and Catalyst.*
2. *Fundicio Ductil Benito, VIC BCN: backbone backup using the guifiNET radio network; routing systems using the VRRP protocol implemented over Cisco and Mikrotik RouterOS.*
3. *Fairmont Rey Juan Carlos I: ESS radio network using Lobometrics equipment for events*



and fairs with more than one thousand customers; control systems using the protocol SNMP and NetGraph in Linux and Mikrotik RouterOS; WAN redundancy over Mikrotik

01/01/2012 ~ 01/01/2014

## Commercial collaborations, ISPs and WISPs.



Control Digital de Procesos, S.L., Pilas (Spain)

PHN: [www.codipro.com](http://www.codipro.com)

In CODIPRO I've got an optimal working relationship with the CEO Miguel Angel Escalante. Our relationship came from my past job in 34Telecom and as much in MESWIFI as like an autonomous technician i could go ahead working with them until 2014. With them I could touch especially jobs about **symmetric bandwidth connection** using dedicated **fiber optic** from the operator ONO as much in industrial buildings as in telecommunication towers from Abertis telecom in all over the country, Canarias islands included. Also we touched on the sale of bandwidth using VDSL and SHDSL technology for companies, virtual telephone exchange VPBX and SIP trunks.

01/01/2012 ~ 01/01/2016

## CEO MESWIFI S.L.



MESWIFI, S.L., Palau-solita i Plegamans (Spain)

PHN: [www.meswifi.com](http://www.meswifi.com)

LHN: [gargoile.meswifi.net](http://gargoile.meswifi.net)

MESWIFI was my own company with my partner from 2012 to 2016. We created a Wireless Internet Service Provider (WISP) based on Ubiquiti, Mikrotik, FreeBSD, Cisco, and Ceragon, comprised of over 3,500 nodes. The network consisted of a redundant backbone of point-to-point radio links that, at peak times, reached a bandwidth consumption of 1 Gbps. MESWIFI's network coverage extended across the provinces of Barcelona and Tarragona. Our BGP exchange point was the Jazztel data center in the Zona Franca of Barcelona. There, we had two racks with Mikrotik RouterOS routers, Layer 3 and Layer 2 Cisco Catalyst switches, and servers for IDS, DNS, email, and VPBX operations. The servers ran FreeBSD, OpenBSD, and Debian Linux.



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01/03/2020 ~ unknown



## Freelancer: Redama, la red que te ama.

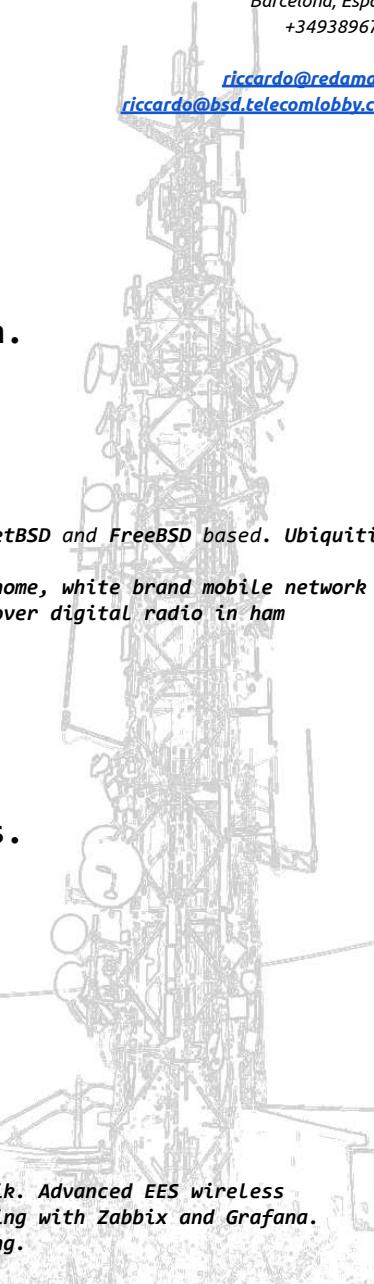
Riccardo Giuntoli, sant Pere de Ribes (Spain)

PHN: [www.redama.es](http://www.redama.es) | [www.redama.cat](http://www.redama.cat)

LHN: a Lot of!

Another WISP. Another Life. Another project. All OpenBSD, NetBSD and FreeBSD based. Ubiquiti radio networking. Some OpenWRT.

Product of last mile connectivity, transport, fiber to the home, white brand mobile network access and starling satellite. We sell also solution based over digital radio in ham frequencies.



11/11/2021 ~ unknown



## Freelancer: Advanced SAT gaming halls.

DENSITY NETWORK S.L., Madrid (Spain)

PHN: [www.densitynetworks.com](http://www.densitynetworks.com)

Another great customer and many final clients:

- MDSCasinos, Chile.
- Corporation BBT, Panama.
- Luckia Gaming Group, Spain and Chile.
- Grupo Codere, Spain and Panama.

Advanced networking implementing Cisco, Fortinet and Mikrotik. Advanced EES wireless implementing Meru, Fortinet, Mikrotik and Ubiquiti. Monitoring with Zabbix and Grafana. Advanced process automatization with Advanced shell scripting.



2022 ~ 2023

## Freelancer: LAN, MAN and WAN technological update.



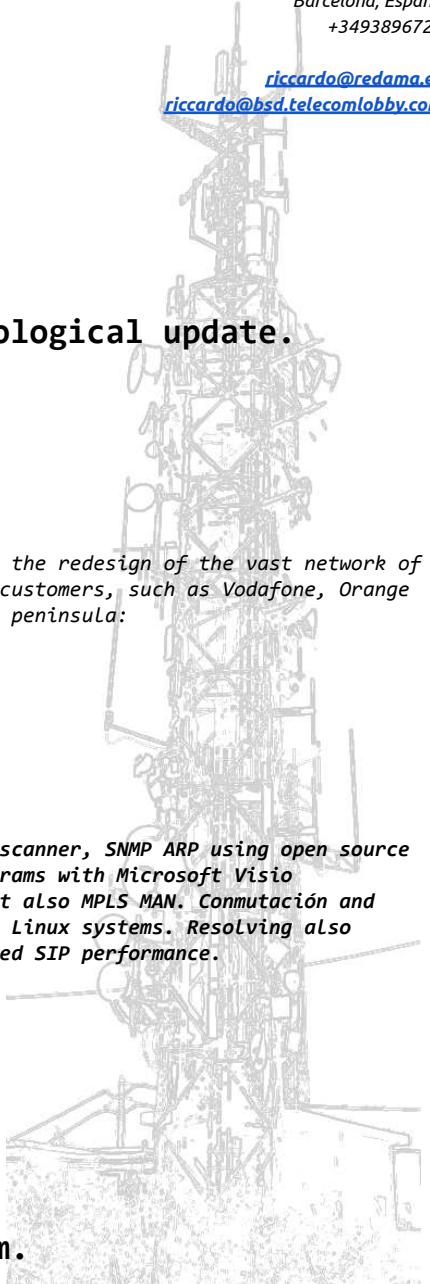
Marktel Global Services, SA (Spain)  
Fibratel S.L., Madrid (Spain)  
DENSITY NETWORK S.L., Madrid (Spain)

PHN: <http://marktel.es>

*Mapping of extensive old infrastructure and implementing the redesign of the vast network of Marktel, some parts of the network bind services to big customers, such as Vodafone, Orange and Caixabanc. Various points of presence in the Iberian peninsula:*

- Albacete.
- Barcelona.
- Madrid.
- Valencia.
- Elvas, Portugal.

*Authorized network remote mapping with port and network scanner, SNMP ARP using open source tools such as NMAP, Wireshark and Netdisco. Network diagrams with Microsoft Visio professional. Advanced networking, ethernet and fiber but also MPLS MAN. Comutación and routing with Cisco and Fortinet hardware, also some pure Linux systems. Resolving also congestion and bufferbloat problems focusing into advanced SIP performance.*



2023 ~ 2024

## Freelancer: FTTR, fiber to the room.



TOSCUBA S.A., La Habana (Cuba)  
Grupo Promael, Madrid (Spain)  
DENSITY NETWORK S.L., Madrid (Spain)

PHN: [toscuba.com.cu](http://toscuba.com.cu)

*A great collaboration with an important Spanish joint venture in the Caribbean island:*

- Hotel Meliá Trinidad, Cuba.
- Hotel Meliá Las Américas.
- Hotel Meliá Varadero.
- Hotel Meliá Sol Palmeras.

*Advanced networking implementing a full triple service fiber to the room technology. Comutación and routing with H3C hardware, GPON infrastructure with EKselans OpenICS. Capacity for concurrent customers above five thousands.*



2024

## Freelancer: a village full covered by fiber and wireless.

Hyatt Hotels & Resorts (United States of America)  
DENSITY NETWORK S.L., Madrid (Spain)

PHN: <http://hyattinclusivecollection.com>

*One of the biggest IT projects that I was involved in. Full coverage of the IT services network developed into an area of 140000 square meters.*

- *Resort Hyatt Dreams, Quinta do Lorde, Caniçal, Madeira.*
- *Marina Quinta do Lorde, Caniçal, Madeira.*

*Full networking engineer, configuration and startup. Ring fiber backbone, multi service infrastructure. Unicast and multicast services. Many hardware manufacturers: Alcatel, Mikrotik, Philips, Tangram High-Density Video Platform. Monitoring with Zabbix and Grafana*

2024 ~ unknown

## CEO mercantil BSDTELECOM LOBBY S.L. (a world of services)

Riccardo Giuntoli, sant Pere de Ribes (Spain)

PHN: <https://telecomlobby.com> [ASAP]

For fun and profit, I've created a fully functional CDN (content delivery network) using only the OpenBSD operating system. Some of the technologies developed:

- Advanced Korn Shell scripting
- Cutting edge routing technology as OpenBSD routing domains concept
- DNS with OpenBSD unbound and OpenBSD nsd.
- DNS with geographic (or other sorts of) balancing, redirection, and service-state-conscious failover with gndnsd always working in OpenBSD.
- OpenSSH with certificate and Certificate Authority
- LibreSSL Certificate Authority
- Advanced PF packet filter
- Advanced Kernel Tuning
- CARP Load balancing
- OpenBGP and OpenOSPF
- OpenIKED
- Wireguard
- Various encapsulation protocols, as GRE and EGRE.
- GIT
- OpenSMTPD
- Dovecot
- OpenBSD httpd
- OpenBSD CGI
- Rspamd
- Many others...

We have a presence in:



- *United States of America*
- *Canada*
- *Brazil*
- *United Kingdom*
- *Spain*
- *Bulgaria*
- *Japan*
- *Australia*

*Among this interesting platform I've built a userland virtualization system to bind monitoring and infrastructure management platforms rapidly to every customer. All is build over Debian Linux, using many technologies as:*

- *Advanced BASH scripting*
- *OpenSSL Certificate Authority*
- *Strongswan IPSEC*
- *Netfilter*
- *TC network queue algorithm*
- *Bird routing daemon, as for OSPF and for BGP*
- *PostgreSQL*
- *Apache2*
- *Softether and wireguard roadwarriors management*
- *SNMP and SNMP trap*
- *Zabbix and Zabbix agent*
- *Grafana*
- *Netbox*
- *Netdisco*

*We've got point of presences in:*

- *Spain*
- *United States of America*





## 4.0 Portfolio of other clients in the Iberian Peninsula..

### NAME

LLeal S.A.

Paterna disenny S.L.

HASTAQUI 456, SL

San Joan Turisme, SL

PIVEMA, SA

Dr Mold, SL

Omkiner, SL

Solveris, SCP

Mecanizados G-Dos, SL

Gestión Comercial Calderi, SL

exterior gestex s.l.

Resinas Olot, SL

Troax, SL

Camping el Pascualet S.A.

Compak Coffe Grinders, SA

Barcelona Horses, SL

EURO SPRADLING, S. L. U.

Relats, SA

ALUSYSTEM, SA

Soportes Tecnicos Universales, SL

Vertigo Motors, SL

Protech Continental Screw Pumps technology

### TYPE

*Internet via radio*

*Engineering*

*Internet via radio*

*ESS*

*Internet via radio*



Danbel Distribuciones Exclusivas, SA

*Internet via radio*

Universal Sleeve, SL

*Internet via radio*

marsal excavacions s.l.

*Internet via radio*

NSH INFORMATICA

*Internet via radio*

TALLERS GRAU GERMANS, SCP

*Internet via radio*

UMOTIC, SL

*Internet via radio*

Hidráulicas, Electronica y Carretillas, SL

*Internet via radio*

Previfoc Material Contra Incendios, SLU

*Internet via radio*

ACM Aux. Construcciones Metal, SA

*Internet via radio*

Componentes Asistencia Técnica de Sistemas, SL

*Internet via radio*

Manipulació de Fils Tècnics i Encolats, SL

*Internet via radio*

DEA SYSTEM, SL

*Internet via radio*

FCA ALUVISILES, S.L.

*Internet via radio*

Inmhogar montbui s.l

*Internet via radio*

DBC Molds Barcelona, SL

*Internet via radio*

Ajuntament de Palau-solità i Plegamans

*ESS*

Petardos Bcm, SL

*Internet via radio*

Trans-Exca Catalunya, SL

*Internet via radio*

Comercial Group, SA

*Internet via radio*

Sadeca Systems, SLU

*Internet via radio*

Estudio agropecuario s.l.

*Internet via radio*

DANOA MANIPULADOS S.L.

*Internet via radio*

Ravial, SA

*Internet via radio*

GERA, s.c.p.

*Internet via radio*

Konectel Telecom, SL

*Engineering*

ACEFE, SAU

*Internet via radio*

Cygyc, SA

*Internet via radio*



IT3, SA

*Internet via radio*

Cani Parc Educació i Entreteniment, SL

*Internet via radio*

Petrolec, SL

*Internet via radio*

FIL KATIA, SA

*Internet via radio*

Biesse Iberica, SL

*Internet via radio*

Solé Diesel, SA

*Internet via radio*

clinica folch-caro s.l.

*Internet via radio*

Establecimientos Or64, SL

*Internet via radio*

Centro de Estudios Gresol, SL

*Internet via radio*

Bardinet, SA

*Internet via radio*

Quimanna Arquitectura, SL

*Internet via radio*

Mecaman Pujol, S.L.

*Internet via radio*

Salas Suministros Industriales, SL

*Internet via radio*

Suarep i Llado, SL

*Internet via radio*

Acabats del Bages, SA ACSA

*Internet via radio*

PIERGA, SL

*Internet via radio*

Kit Personalizacion Sport, SL

*Internet via radio*

DNC, SA

*Internet via radio*

Inmobiliaria Overcos, SL

*Internet via radio*

LC Embalajes Iberica, SL

*Internet via radio*

Parnoplast, SLU

*Internet via radio*

ATP Engineering Packaging, SL

*Internet via radio*

Norte-Eurocao, SLU

*Internet via radio*

Ajuntament Vacarisses

*Internet via radio*

Ajuntament de Bigues i Riells

*Engineering*

Arids Catalunya, SA - Sorigue

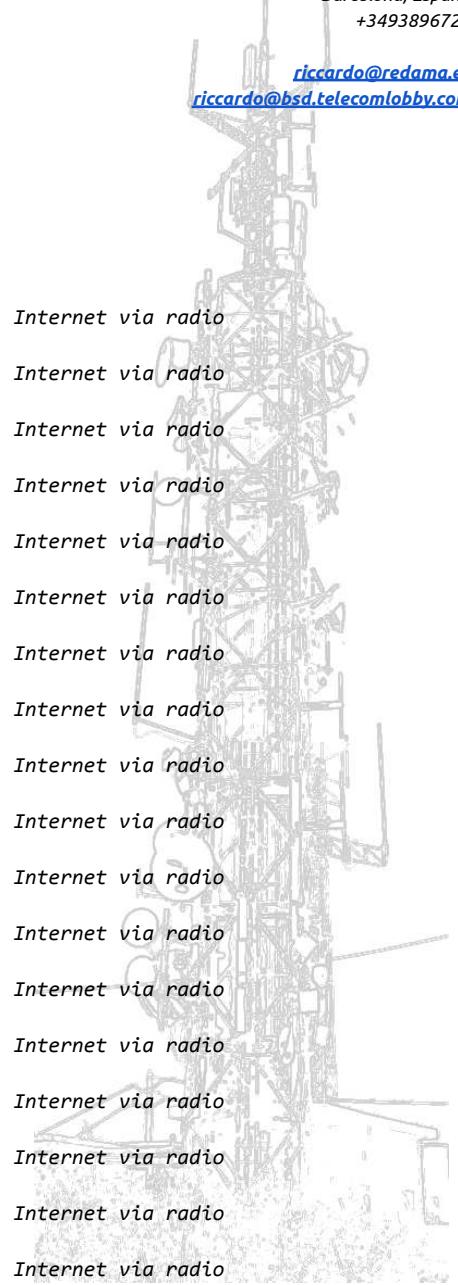
*Internet via radio*

Ajuntament de Marganell

*Internet via radio*



Gali Matriu, SL	<i>Internet via radio</i>
Industria del Cemento Aglomerado, SL	<i>Internet via radio</i>
Mercerizados Guasch, SA	<i>Internet via radio</i>
Teide Refractory Solutions, SL	<i>Internet via radio</i>
Congelados Inserte, SL	<i>Internet via radio</i>
SYSTE, SL	<i>Internet via radio</i>
Didem, SL	<i>Internet via radio</i>
VM Systems Proyectos de Manutención, SL	<i>Internet via radio</i>
Olis Bargalló, SA	<i>Internet via radio</i>
Foc i Calor, SCP	<i>Internet via radio</i>
Consman Truck, SL	<i>Internet via radio</i>
Telecomunicaciones Mediterranea Baix Camp, SL - Mini Cars Pons	<i>Internet via radio</i>
Ortoplast, SLU	<i>Internet via radio</i>
Matadero Frigorífico Avinyó, SA	<i>Internet via radio</i>
Unitex Spain, SL	<i>Internet via radio</i>
Ekipalia, SL	<i>Internet via radio</i>
Transformad, SA	<i>Internet via radio</i>
FAM TINASEP, SL	<i>Internet via radio</i>
Club Regasol, SCP	<i>Internet via radio</i>
IT3, SA	<i>Internet via radio</i>
Grupo Becano Manteniments, SL	<i>Internet via radio</i>
VISMON INTERNACIONAL, SL	<i>Internet via radio</i>
Informatica serrat, SLU.	<i>Engineering</i>
CBC, SL	<i>Internet via radio</i>
Nous de Pizza, SL	<i>Internet via radio</i>
Jamanola, SL	<i>Internet via radio</i>





Faren Industrias Quimicas, SA

*Internet via radio*

Jardineria Oria, SL

*Internet via radio*

LLar d'Avis Alvarez Tutusaus, SL

*Internet via radio*

laboratori d' anatomia patologica histolab s.l.p

*Internet via radio*

Restaurant Salelles, SL

*Internet via radio*

Aranow Packaging Machinery, SL

*Internet via radio*

Barnasfalt, SA

*Internet via radio*

Bombas Boyser, S.L.

*Internet via radio*

Creaciones en Chocolate, SL

*Internet via radio*

Ecoparc del Mediterrani, SA

*Internet via radio*

Hermarta, SL

*Internet via radio*

Laboratorios Karizoo, SA

*Internet via radio*

Engineering magnetica aplicada S.L.

*Internet via radio*

Padma Diseño, SL

*Internet via radio*

Plamat, SL

*Internet via radio*

Rejillas Calibradas, SL

*Internet via radio*

Retra Catalunya, SL

*Internet via radio*

Rierge, SA

*Internet via radio*

MES, SA (TREMBLEY)

*Internet via radio*

Riera Tutó, S.L.

*Internet via radio*

Ofisol 2000, SL

*Internet via radio*

Dachs Electronica, SA

*Internet via radio*

Mudanzas Flippers Intl, SL

*Internet via radio*

Inacces Geotecnica Vertical, SL

*Internet via radio*

Helipistas, SL

*Internet via radio*

POL Marketing Directo, SL - POL Serveis

*Internet via radio*

Servicios Maritimos al Consignatario de Barcelona, SL - SERMACO

*Internet via radio*



Cadepa Global Packaging, SL	<i>Internet via radio</i>
Montanyà Hotel Resorts, SA	<i>Internet via radio</i>
Led Expert, SL	<i>Internet via radio</i>
Hydrodry, SL	<i>Internet via radio</i>
Famtor, SL	<i>Internet via radio</i>
Consultores Formación y Evaluación, SL - CRAM	<i>Internet via radio</i>
Intex Rehabilitación, SL	<i>Internet via radio</i>
SYSTE, SL	<i>Internet via radio</i>
Netretina, SL	<i>Internet via radio</i>
Alpa Valles, SL (Restaurante La Magnolia)	<i>Internet via radio</i>
Spedireus, SLU	<i>Internet via radio</i>
Global Hispavinos, SL VINISSIMUS	<i>Internet via radio</i>
Tiro y Retiro, SL	<i>Internet via radio</i>
Disproquima, SA	<i>Internet via radio</i>
Ferrer Mora i Vila, SL	<i>Internet via radio</i>
Food & Mambo, SL	<i>Internet via radio</i>
Serlomed, SL	<i>Internet via radio</i>
Water Fire, SL	<i>Internet via radio</i>
Vertigo Motors, SL	<i>Internet via radio</i>
SPAIN M&C PACK, S.L	<i>Internet via radio</i>
FCA Tallers Riera i Tutó, S.L.	<i>Internet via radio</i>
Ford	<i>Internet via radio</i>
Hispanotex, SA	<i>Internet via radio</i>
Logistics World Wide, SL	<i>Internet via radio</i>
Busquets i Bellavista, SL	<i>Internet via radio</i>
Material sanitario domedel s.l.	<i>Internet via radio</i>





Transgruas

*Internet via radio*

UPING ELEVACION, SL

*Internet via radio*

Lulukabaraka, SL

*Internet via radio*

Bionutricio cooperatiu, SL

*Internet via radio*

Transgruas cial, S.L.

*Internet via radio*

Farmacia GEls Xipresos 09, SL (Can Pages)

*Internet via radio*

Sistemes i Xarxes Inf. Calidae, SL

*Engineering*

Recambios y accesorios Gaudi, SL

*Internet via radio*

Hereus de FJ Argemi, SL

*Internet via radio*

gruas saul torres s.l.

*Internet via radio*

Iaucar2011 s.l.

*Internet via radio*

EQUUS LIFE, SL

*Internet via radio*

Sernepama, SL

*Internet via radio*

Lohcexc Services Spain, SL

*Internet via radio*

mart-bert mobiliario s.l.

*Internet via radio*

Creadis PLV, S.L.

*Internet via radio*

5Pigroup Consulting, SL

*Internet via radio*

Police Abraxas, SL

*Internet via radio*

TRIAL SOFTWARE, SL

*Internet via radio*

Transportes del Maresme, SA

*Internet via radio*

Ves i torna 1,2,3, SL

*Internet via radio*

Pere Pons, SA

*Internet via radio*

Servicios Industriales Reunidos, S.A. [SIRSA]

*Internet via radio*

Escola Pia de Caldes de Montbui

*Internet via radio*

E&C GLOBAL S.C.P.

*Internet via radio*

Jetsal Holding, SL (JOVI)

*Internet via radio*

tesi saez s.l.

*Internet via radio*



W. L. Gore y Asociados, S.L.

*Internet via radio*

Relieves Egara, SL

*Internet via radio*

Jardiners de Palau, SCP

*Internet via radio*

Quadest, SL

*Internet via radio*

FIVE 04, SL

*Internet via radio*

Chacon 2008, s.l (Anabel Junyent)

*Internet via radio*

Mecaman Pujol, S.L.

*Internet via radio*

Interdan Romcat, SL (Joaquim Prats)

*Internet via radio*

Pekatherm, SL

*Internet via radio*

UNECO, SA

*Internet via radio*

Embutidos Subirats, SA

*Internet via radio*

soluciones logísticas XXI s.l.

*Internet via radio*

recam laser s.l.

*Internet via radio*

Fort Instalaciones Petroleras, SL

*Internet via radio*

Best fleet Services

*Internet via radio*

Sasa Textil Import Export, SL

*Internet via radio*

Ticsen Bcn, SL

*Internet via radio*

Printfa, SL

*Internet via radio*

Protech Continental Screw Pumps technology

*Internet via radio*

W. L. Gore y Asociados, S.L. (David Morell)

*Internet via radio*

estructuras can serra s.l.

*Internet via radio*

Soler Teselen, SL

*Internet via radio*

TRANSPORTES SANTIN Y JOVÉ S.L.

*Internet via radio*

Mecanizados G-Dos, SL

*Internet via radio*

The Nectar Company, SL

*Internet via radio*

CASA FELIU, SL

*Internet via radio*

Blafel advisors, SL

*Internet via radio*



Establiments Viena, SA	<i>Internet via radio</i>
Manentia Advocats, SCP	<i>Internet via radio</i>
Sellarés Espai Rural	<i>Internet via radio, ESS</i>
KONIC Innovation in Healthcare Services S.L.	<i>Internet via radio</i>
Sistema Folch SL	<i>Internet via radio, private OFDM backbone, Load balancing.</i>
Fundación proyecto Miranda	<i>Internet via radio</i>
MINORISA DE SISTEMAS INFORMÁTICOS Y DE GESTION SL	<i>Internet via radio</i>
Grup Peralada	<i>Internet via radio</i>
Avifood, S.L.	<i>Internet via radio</i>
SecAnim Bio-Industries, S.A.U.	<i>Internet via radio</i>
Residuos Aragon Sl, Gobierno de Aragon	<i>Internet via radio</i>
Andrimner Genética Aplicada SLU	<i>Internet via radio</i>
Corporation to Win Holding SL	<i>Internet via radio</i>
JL Vijfkant 2009, S.L.	<i>Internet via radio, ESS</i>
NEWENN SL	<i>Internet via radio</i>
ADTEL SL	<i>Internet via radio</i>
Refugi J M Blanc	<i>Internet via radio, ESS, hotspot, VPBX</i>
Adagreb SL	<i>Internet via radio</i>
Refugi d'Amitges	<i>Internet via radio, VPBX</i>
Refugi de Colomers	<i>Internet via radio, VPBX</i>
Refugi Ventosa i Calvell	<i>Internet via radio, ESS, VPBX</i>
Dreams Madeira Resort, Spa & Marina	<i>Internet via radio</i>
Restaurant Can Puig	<i>Internet via radio, VPBX</i>
Refugi de Saboredo	<i>Internet via radio, VPBX</i>



This list is a compilation of business clients that I have had the honor of serving under different trade names. Today, Redama covers the entire Catalan territory, and coverage of the Basque Country is planned.

## 5.0 APPENDICES.

I have attached three documents regarding the preliminary study for the coverage of a large area of 320 square kilometers in Saudi Arabia using private 5G RAN technology, in addition to IP-modulated wireless backbones over unlicensed radio spectrum to connect the various telecommunications towers.

The use of Radio Mobile as a planning tool, along with maps obtained from the Google Earth database, is noted. Regarding last-mile access technologies, the use of high-performance 5G base stations and unlicensed backhaul is evident:

[PRIVATE\\_RAN\\_YANBU](#)

[PRIVATE\\_BACKHAUL\\_YANBU](#)

Finally, I have attached a letter of recommendation for what is probably the most interesting project I have undertaken in my career, a project carried out on the Caribbean island of Cuba at the resorts of the Spanish company Meliá. The letter is from the local engineer in charge of the IT network modernization works at the complexes, which we were able to complete a year ago, engineer Julio Maldonado:

[LETTER OF RECOMMENDATIONS\\_CUBA](#)

Atentamente,



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