



# Redama



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NIF EU: ESX9770628K  
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## TECHNICAL PORTFOLIO RICCARDO GIUNTOLI

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



# Redama



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## 1.0 Personal information.

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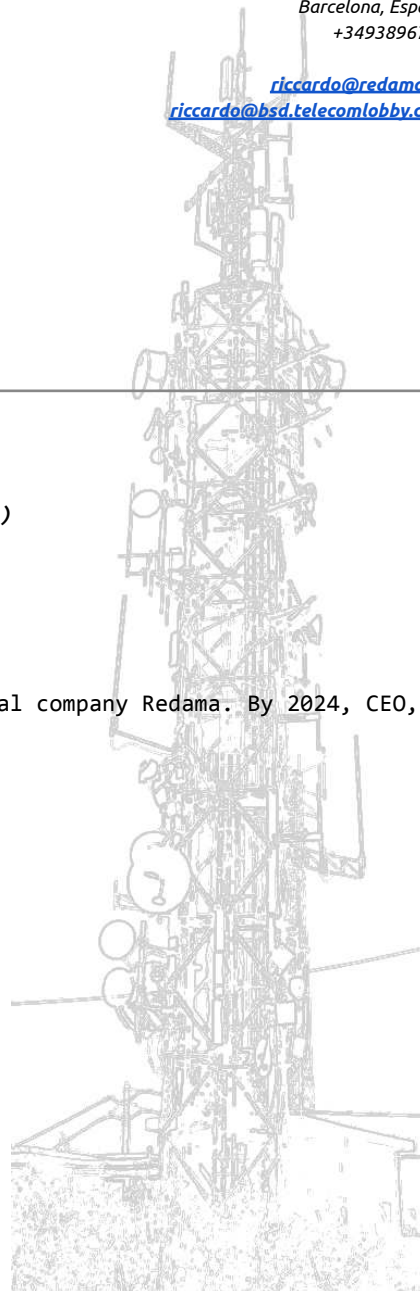


### **Riccardo Giuntoli** *(a knight of open source)*

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*

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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](mailto: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*





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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.

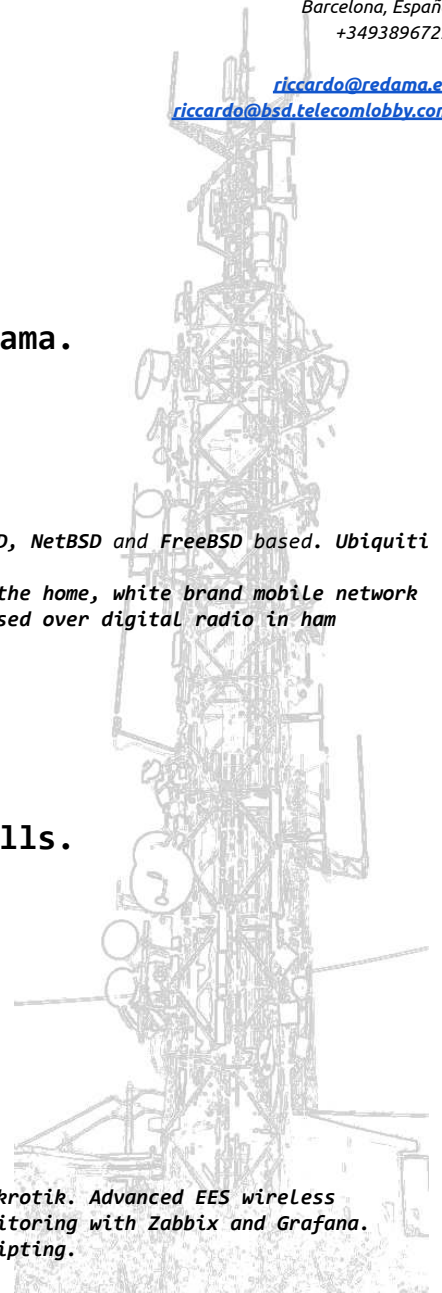
DENSITY NETWORK S.L., Madrid (Spain)

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.

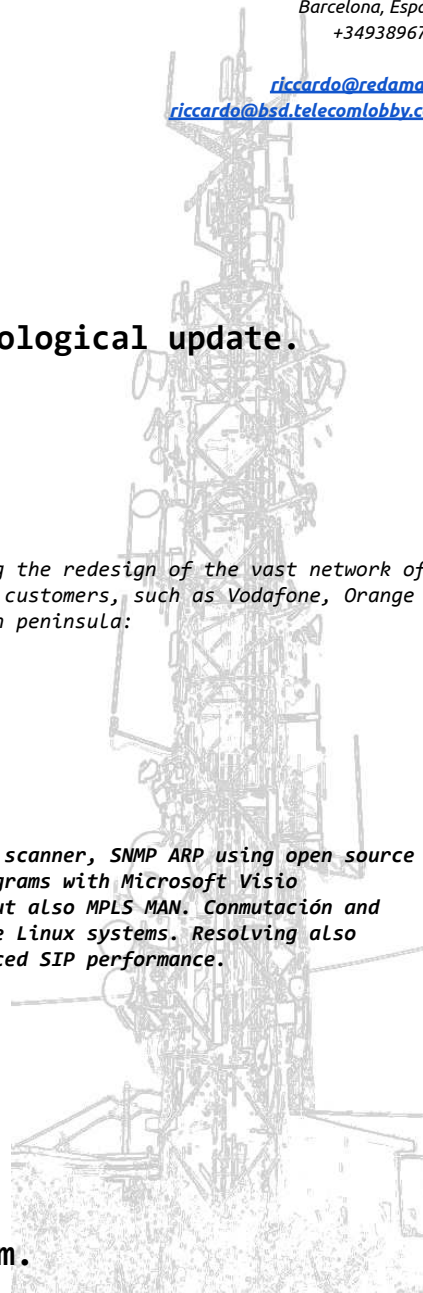
Marktel Global Services, SA (Spain)  
Fibratel S.L., Madrid (Spain)  
DENSITY NETWORK S.L., Madrid (Spain)

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. Conmutación 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 Americas.
- Hotel Meliá Varadero.
- Hotel Meliá Sol Palmeras.

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



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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 gdnssd 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 GRE.
- GIT
- OpenSMTPD
- Dovecot
- OpenBSD httpd
- OpenBSD CGI
- Rspamd
- Many others...

*We have a presence in:*





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- *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*





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

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### 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

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Engineering

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Danbel Distribuciones Exclusivas, SA

Universal Sleeve, SL

marsal excavacions s.l.

NSH INFORMATICA

TALLERS GRAU GERMANS, SCP

UMOTIC, SL

Hidráulicas, Electronica y Carretillas, SL

Previfoc Material Contra Incendios, SLU

ACM Aux. Construcciones Metal, SA

Componentes Asistencia Técnica de Sistemas, SL

Manipulació de Fils Tècnics i Encolats, SL

DEA SYSTEM, SL

FCA ALUVISILES, S.L.

Inmhogar montbui s.l

DBC Molds Barcelona, SL

Ajuntament de Palau-solità i Plegamans

Petardos Bcm, SL

Trans-Exca Catalunya, SL

Comercial Group, SA

Sadeca Systems, SLU

Estudio agropecuario s.l.

DANOA MANIPULADOS S.L.

Ravial, SA

GERA, s.c.p.

Konectel Telecom, SL

ACEFE, SAU

Cygyc, SA

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IT3, SA  
Caní Parc Educació i Entreteniment, SL  
Petrolec, SL  
FIL KATIA, SA  
Biesse Iberica, SL  
Solé Diesel, SA  
clinica folch-caro s.l.  
Establecimientos Or64, SL  
Centro de Estudios Gresol, SL  
Bardinet, SA  
Quimanna Arquitectura, SL  
Mecaman Pujol, S.L.  
Salas Suministros Industriales, SL  
Suarep i Llado, SL  
Acabats del Bages, SA ACSA  
PIERGA, SL  
Kit Personalizacion Sport, SL  
DNC, SA  
Inmobiliaria Overcos, SL  
LC Embalajes Iberica, SL  
Parnoplast, SLU  
ATP Engineering Packaging, SL  
Norte-Eurocao, SLU  
Ajuntament Vacarisses  
Ajuntament de Bigues i Riells  
Arids Catalunya, SA - Sorigue  
Ajuntament de Marganell

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Gali Matriu, SL

Industria del Cemento Aglomerado, SL

Mercerizados Guasch, SA

Teide Refractory Solutions, SL

Congelados Inserte, SL

SYSTE, SL

Didem, SL

VM Systems Proyectos de Manutención, SL

Olis Bargalló, SA

Foc i Calor, SCP

Consman Truck, SL

Telecomunicaciones Mediterranea Baix Camp, SL - Mini Cars Pons

Ortoplast, SLU

Matadero Frigorífico Avinyó, SA

Unitex Spain, SL

Ekipalia, SL

Transformad, SA

FAM TINASEP, SL

Club Regasol, SCP

IT3, SA

Grupo Becano Manteniments, SL

VISMON INTERNACIONAL, SL

Informatica serrat, SLU.

CBC, SL

Nous de Pizza, SL

Jamanola, SL

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Faren Industrias Quimicas, SA

Jardineria Oria, SL

LLar d'Avis Alvarez Tutusaus, SL

laboratori d' anatomia patològica histolab s.l.p

Restaurant Salelles, SL

Aranow Packaging Machinery, SL

Barnasfalt, SA

Bombas Boyser, S.L.

Creaciones en Chocolate, SL

Ecoparc del Mediterrani, SA

Hermarta, SL

Laboratorios Karizoo, SA

Engineering magnetica aplicada S.L.

Padma Diseño, SL

Plamat, SL

Rejillas Calibradas, SL

Retra Catalunya, SL

Rierge, SA

MES, SA (TREMBLEY)

Riera Tutó, S.L.

Ofisol 2000, SL

Dachs Electronica, SA

Mudanzas Flippers Intl, SL

Inacces Geotecnica Vertical, SL

Helipistas, SL

POL Marketing Directo, SL - POL Serveis

Servicios Maritimos al Consignatario de Barcelona, SL - SERMACO

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Cadepa Global Packaging, SL

Montanyà Hotel Resorts, SA

Led Expert, SL

Hydrodry, SL

Famtor, SL

Consultores Formación y Evaluación, SL - CRAM

Intex Rehabilitación, SL

SYSTE, SL

Netretina, SL

Alpa Valles, SL (Restaurante La Magnolia)

Spedireus, SLU

Global Hispavinos, SL VINISSIMUS

Tiro y Retiro, SL

Disproquima, SA

Ferrer Mora i Vila, SL

Food & Mambo, SL

Serlomed, SL

Water Fire, SL

Vertigo Motors, SL

SPAIN M&C PACK, S.L

FCA Tallers Riera i Tutó, S.L.

Ford

Hispanotex, SA

Logistics World Wide, SL

Busquets i Bellavista, SL

Material sanitario domedel s.l.

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Transgruas

UPING ELEVACION, SL

Lulukabaraka, SL

Bionutricio cooperatiu, SL

Transgruas cial, S.L.

Farmacia GElS Xipresos 09, SL (Can Pages)

Sistemes i Xarxes Inf. Calidae, SL

Recambios y accesorios Gaudi, SL

Hereus de FJ Argemi, SL

gruas saul torres s.l.

laucar2011 s.l.

EQUUS LIFE, SL

Sernepama, SL

Lohcexc Services Spain, SL

mart-bert mobiliario s.l.

Creadis PLV, S.L.

5Pigroup Consulting, SL

Police Abraxas, SL

TRIAL SOFTWARE, SL

Transportes del Maresme, SA

Ves i torna 1,2,3, SL

Pere Pons, SA

Servicios Industriales Reunidos, S.A. [SIRSA]

Escola Pia de Caldes de Montbui

E&C GLOBAL S.C.P.

Jetsal Holding, SL (JOVI)

tesi saez s.l.

Internet via radio

Internet via radio

Internet via radio

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Internet via radio

Internet via radio

Engineering

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# Redama



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

Relieves Egara, SL

Jardiniers de Palau, SCP

Quadest, SL

FIVE 04, SL

Chacon 2008, s.l (Anabel Junyent)

Mecaman Pujol, S.L.

Interdan Romcat, SL (Joaquim Prats)

Pekatherm, SL

UNECO, SA

Embutidos Subirats, SA

soluciones logísticas XXI s.l.

recam laser s.l.

Fort Instalaciones Petroleras, SL

Best fleet Services

Sasa Textil Import Export, SL

Ticsen Bcn, SL

Printfa, SL

Protech Continental Screw Pumps technology

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

estructuras can serra s.l.

Soler Teselen, SL

TRANSPORTES SANTIN Y JOVÉ S.L.

Mecanizados G-Dos, SL

The Nectar Company, SL

CASA FELIU, SL

Blafel advisors, SL

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Establiments Viena, SA

Manentia Advocats, SCP

Sellarés Espai Rural

KONIC Innovation in Healthcare Services S.L.

Sistema Folch SL

Fundación proyecto Miranda

MINORISA DE SISTEMAS INFORMÁTICOS Y DE GESTION SL

Grup Peralada

Avifood, S.L.

SecAnim Bio-Industries, S.A.U.

Residuos Aragon Sl, Gobierno de Aragon

Andrimner Genética Aplicada SLU

Corporation to Win Holding SL

JL Vijfkant 2009, S.L.

NEWENN SL

ADTEL SL

Refugi J M Blanc

Adagreb SL

Refugi d'Amitges

Refugi de Colomers

Refugi Ventosa i Calvell

Dreams Madeira Resort, Spa & Marina

Restaurant Can Puig

Refugi de Saboredo

Internet via radio

Internet via radio

Internet via radio, ESS

Internet via radio

Internet via radio, private OFDM  
backbone, Load balancing.

Internet via radio

Internet via radio

Internet via radio

Internet via radio

Internet via radio

Internet via radio

Internet via radio

Internet via radio

Internet via radio, ESS

Internet via radio

Internet via radio

Internet via radio, ESS,  
hotspot, VPBX

Internet via radio

Internet via radio, VPBX

Internet via radio, VPBX

Internet via radio, ESS, VPBX

Internet via radio

Internet via radio, VPBX

Internet via radio, VPBX





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*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.

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*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,



Riccardo Giuntoli  
CEO  
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660 922 690  
[riccardo@redama.es](mailto:riccardo@redama.es)

