



## About Me

**François Gerthoffert**  
 86 Hereford Road  
 London W2 5AL  
 UNITED KINGDOM  
 francois@gerthoffert.net  
 Web: [www.gerthoffert.net](http://www.gerthoffert.net)  
 (+44) 7 515 357 796  
 25 years old - Driving license



## Skills

### COMPUTER NETWORKS

- **Wireless networks:**
  - **802.11 a/b/g:** Study, installation, configuration, teaching.
  - **Appliances:** Cisco (WLC, ACS, WCS), Aruba (Certified), Bluesocket, Trapeze, Symbol.
  - **Audit and Consulting:** Airmagnet (Analyzer, Survey, Handheld)
  - **Site Surveys:** Complex and specific site surveys.
  - **Security - 802.11i:** Radius (Microsoft IAS, Freeradius, Cisco ACS), PKI (Microsoft, OpenSSL).
- Operating systems: Unix, Linux (everyday), Windows (all), MacOS X.
- Security: Firewalling (Microsoft ISA, iptables), VPN.
- User management: ldap, ADS, Samba, Novell.
- Groupware products: Lotus (Notes, Domino, Administrator), Exchange 2003, Citrix.
- Network techniques: WAN, LAN, RIP, BGP, OSPF, OLSR
- Media: VoIP (SIP), streaming audio/video.

### COMPUTING

- Analysis methodology: UML, Merise.
- Programming languages: Java, C++, C.
- Websites development:
  - Languages and technics: Apache, PHP 4/5, Smarty, XHTML, XML, XSLT, CSS, AJAX.
  - Audit: W3C norms and referencng.
- Databases: Oracle, MySQL.

### INTERNATIONAL COMMUNICATION

- English: Speak, Translate, Read, Write (TOEIC: 885).
  - Training periods and Study program: 12 months (WATFORD, LONDON, NEWCASTLE).
  - Writing of documentations (training period, personal projects).
- German: Speak, Read, Write - Basic level
  - One semester study program (ESSLINGEN), 3 months training period (LUDWIGSHAFEN).
- Dutch: Read - Low level
  - One semester study program (BREDA).

### MANAGEMENT

- Manage and motivate a team.
- Manage a meeting.
- Transmit information.

## Bluesafe (04/2006 - 11/2007)

### ABOUT BLUESAFE

Bluesafe is a French company based in Paris specialized in the Wi-Fi domain for major french companies. Bluesafe can handle every step of the Wi-Fi migration/installation process from the Wi-Fi Site Survey to the final installation according to different customers constraints and different network infrastructure. Bluesafe is not link to a specific hardware manufacturer but with its strong knowledge of the market and its specificities, the customer will be guided to the best hardware manufacturer answering his needs and constraints.

### ASPECTS OF MY JOB WITH BLUESAFE:

- **Wi-Fi Audit & Consulting**
  - Audit and proposal to improve Wi-Fi infrastructure,
  - Software: Airmagnet (Analyzer, Survey, Handheld),
  - Paperwork.
- **Wi-Fi & site survey courses (trainer):**
  - Site survey courses,
  - Aruba Networks appliances courses,
  - Courses paperwork.
- **Wi-Fi Site Survey:**
  - Complex Site surveys (more than 100 Access Points),
  - Specific Site Surveys to answer special needs (High Availability, VoWLAN, ...),
  - Responsible of the Site Survey process (maintaining and improving) within the company.
- **Wi-Fi appliances:**
  - Cisco : WLC, WLSE, LWAPP, ACS, installation within major french companies,
  - Bluesocket : BSC & BVMS,
  - Aruba Networks : Aruba 200 - 6000, RAP,
  - Teaching and explanations about the solution installed,
  - "Hotspots" installation for short term events (Le Bourget Paris Air Show, ...),
  - Assisting customers to plan their new network architecture.

- **Technological foresight:**
  - VoIP, VoWLAN,
  - Wi-Fi,
  - ACL (VACL, PAACL, RAACL).
- **Network products:**
  - Firewall: iptables, Microsoft ISA Server 2004, ...,
  - Radius: Microsoft IAS, freeradius, Cisco ACS, Wired 802.1X, ...,
  - Switching: Cisco catalyst, Nortel, HP, ...

## PROJECTS

I've worked on lots of different projects with Bluesafe, please find below more details about some of them:

**Company:** Major French Aircraft and Defense company

**The project:** I've assisted the company to build its new Wi-Fi architecture. Working with a network architect from this company my tasks were focusing on different topics:

- I conducted VoWLAN-oriented Site Surveys, the objective was to plan a complete coverage of each location of the company to provide Voice over WLAN (VoWLAN) capabilities. The targeted Wi-Fi phone was the Cisco 7921G.

- I assisted the company to test a lot of different scenarios and advanced features of the Cisco WLC controllers (such as LOCAL EAP, Mobility Anchors, ...). During the year this project has been extended to the wired part of the network. The objective was to provide the same kind of security than 802.11i. I've done testings on 802.1X, PAACL, VLAN MAP, Per User ACL (sent through Cisco ACS), Guest VLAN, ...

- I wrote documentations for the customers, the main objective of these documentations was to give them autonomy, they were willing to be able to do every appliance integration by themselves. Starting without any Wi-Fi knowledge.

**Products:** Cisco ACS, Cisco WLC (3750G), Cisco 7921G Wi-Fi Phones, Cisco 1240 LWAPP, Cisco WCS, Cisco Switches (3560, 3750G, ...), Airmagnet Analyzer, Airmagnet Survey, Freeradius, Apache, LDAP, OpenSSL, GNU/Linux (CentOS), Squid, iptables, ...

**Length:** Two months spread over one year

**My opinion:** This project (which took me nearly two months spread over the whole 2007 year) was extremely interesting, it gave me the ability to analyse a deployment from the studying/draft process to the final installation and testing. For my company this project was initially a small Wi-Fi site Survey contract and has moved (by the addition of other projects) during the year into one of our major contract for the 2007 year (service + hardware furniture). The "pilot" of this project has been successfully deployed and the migration process has begun for the whole company.

**Company:** Direction des Journaux officiels (French government)

**The project:** I've installed a WLAN and a Workspot within the company, I've then taught the customer how to maintain its new Wi-Fi infrastructure. Finally I've written documentation about this installation and its maintenance.

**Products:** Bluesocket (BSC 2100), Freeradius (authentication request on the Microsoft AD).

**Length:** 5 Days

**My opinion:** This small project (10 Access Points) gave me the opportunity to work for the french government, the company has used this project to test the reactivity and the dynamism of Bluesafe on this kind of project. Bluesafe has then won a contract concerning the installation of a workspot within one of the most important place of the french government, with more than 600 Wi-Fi accounts.

**Press:** <http://www.mag-secur.com/spip.php?article9150>

**Company:** GMF

**The project:** I've taught the customer how to install and maintain Aruba Wi-Fi appliances according to their needs and constraints and I've written documentation about these topics.

**Products:** Aruba 200, Aruba 800, Microsoft IAS, ...

**Length:** 5 days (3 days teaching, 2 days writing documentation).

**My opinion:** Such projects aimed to give autonomy to customers with their Wi-Fi infrastructure are very interesting. This kind of lessons usually provided to 3-5 people gave me the opportunity to work on my adaptivity to different people with different technical background, and really often no Wi-Fi background at all. The result of these project is quickly measurable by the ability of the customer to install their own Wi-Fi infrastructure by themselves.

**Press:** <http://www.reseaux-telecoms.net/actualites/imprimer-la-gmf-opte-pour-le-wi-fi-16923.html>

**Company:** Major French technical University (multi-site)

**The project:** I've taught the customer how to install and maintain Aruba Wi-Fi appliances according to their needs and constraints and I've written documentation about these topics.

**Products:** Aruba 2400, RAP, GNU/Linux, Freeradius

**Length:** 9 Days (6 days teaching, 3 days writing documentation).

**My opinion:** This project, similar to the GMF one, was a lot more interesting because the integration of the solution has a lot more problematics like eduroam ([www.eduroam.org](http://www.eduroam.org)), remote Access Points (RAP), ... The three persons I was working with had strong technical background so we've been able to practice advanced configuration capabilities of Aruba controllers.

**Company:** French public transport company

**The project:** Lesson: How to successfully perform a Wi-Fi Site Survey (8 people).

**Products:** Airmagnet Analyzer, Airmagnet Survey, Wi-Fi Site Survey Kits.

**Length:** 2 days

**My opinion:** The main objective of this project was not just to learn them how to work with technical tools, but also to give them a good Wi-Fi background and method that could be used for complex and big Wi-Fi Site Survey.

**Company:** Disneyland resort Paris

**The project:** Wi-Fi coverage of the whole resort park

**Products:** Airmagnet Analyzer, Airmagnet Survey, Wi-Fi Site Survey Kits.

**Length:** 20 days

**My opinion:** The main challenge of this project was not the Wi-Fi site survey itself, organisation and methods were extremely important to successfully complete the site survey of nearly 150 different locations during the 12 days period planned within the park.

**Company:** Multi-site company (1500 people)

**The project:** Assist the company in the deployment process of their Wi-Fi infrastructure.

**Products:** Bluesocket 400, Bluesocket 1100, Juniper Odyssey  
**Length:** One month spread over two years  
**My opinion:** This project gave me the ability to follow a customer during two years.

---

## Work Experience

---

<b>Bluesafe</b>	Company specialized in Wireless networks.	April 2006 / Nov. 2007.
<b>Freelance</b>	Windows 2003 Server, Exchange, IPSec, ...	January / April 2006.
<b>ACOMAX Net Publishing (UK)</b>	Creation of a web portal	Internship, April / September 2005 <i>Prolongated October / December</i>
<b>VINCI Bautech (DE)</b>	Study about installing Citrix within the company.	Internship, July / September 2003
<b>NORWEST HOLST (UK)</b>	Assistance, Computers repairing, Linux.	Internship, February / March 2002

## Degrees

---

<b>Computing and Networks International Diploma</b>	Sept. 2005	ISAIP ESAIP Group (Angers - France)
<b>Network Architecture and Engineering Diploma</b>	Sept. 2005	Avans University (Breda - Pays Bas)
<b>International project manager in computing and networks</b>	2004	ISAIP ESAIP Group (Angers - France)
<b>BTS Computing and networks (BTEC - Level)</b>	2002	La Joliverie (Nantes - France)
<b>BAC STI Mechanics (A - Level)</b>	2000	Marcel Callo (Redon - France)

## Hobbies

---

### COMPUTING ACTIVITIES

- Ex-manager of Angers-Wireless (1901 law association).
- Member of Nantes-Wireless (1901 law association).
  - **Instigator and co-writer of the Ebook project (802.11 - Wireless networks)**, *more than 350 000 hits for 3 years.*
  - **Instigator and co-writer of the Ebook-2 project (Build a community network).**
- Ex-Manager of LiLoLiPo (1901 law association).
  - Events to promote Linux and Free Software in Pont-Château (FR) - [www.lilolipo.net](http://www.lilolipo.net).
- Websites creation ([www.spottrotters.com](http://www.spottrotters.com), [www.pstockexchange.com](http://www.pstockexchange.com), [www.lilolipo.net](http://www.lilolipo.net), [www.le-bodio.com](http://www.le-bodio.com), ...).

### SPORTS

- Kitesurf, Mountain Bike, Rollerskates, Funboard, Ski, Snowboard.