

## Thierry Parmentelat

### *Education*

1984 Ingénieur de l'École Polytechnique

1985 "D.E.A" in Computer Science, Université Paris XI Orsay

1991 Ph.D. in Computer Science, C.N.A.M, Paris

### *Languages*

*French* Mother tongue

*English* Fluently read, spoken and written

*German* School notions

### *Skills*

*Management* Business Unit management, contracts management, resources and facilities, international teamwork, hiring, bid preparation

*Architecture* Accustomed to designing and implementing quite complex network topologies involving computers and routers as well as telecom and data devices. Very familiar with the most popular Internet protocols, including VOIP and multimedia. Effective ability to envision distributed applications with maximum reusability.

*Software development* Thorough experience from marketing-related activities like requirements definition, cost/feature optimization & impacts on design, cost control & impacts on planning. Very familiar with the full spectrum of Open Source projects, and with common practices such as source management systems, daily build, automated regression test suites, bug-tracking, trouble ticketing

*IT Management* Strong experience in IT infrastructure design and implementation, in terms of hardware installation and maintenance, software deployment strategies, and network security.

### *Professional Experience*

2002 - now **INRIA** - Institut National de Recherche en Informatique et Automatique  
*INRIA* is the French National Research Institute in Computer Science and Control Theory.

- » As part of the **Planète Project-Team**, that addresses Internet protocols and applications, I have been setting up experimental tools and facilities for various papers.
- » I have been acting as the Technical Director for the E.U-funded **OneLab project**. In this context, we have contributed significant extensions to the **PlanetLab** world-wide research platform with wireless capabilities, passive and topology monitoring, and native emulation. Beyond that, we are building a federation of enhanced experimental facilities in Europe, including wired nodes (PlanetLab Europe), and various wireless testbeds (NITOS).

- » This involves a wide range of activities, from software development, operations, dissemination, as well as relationships with many international partners, in Europe, the USA and Asia.

#### 2000 - 2001 **8x8** - Nasdaq:EGHT / **Centile**

8x8 is a hi-tech company based in Santa Clara - California. In 1998 it bought Odisei, a French startup focused on VOIP software products, based in Sophia-Antipolis, that later became Centile.

- » Inside Centile, I was in charge of a 20 people team, in charge of product integration, validation through automated and manual testing, and customer support.
- » I reworked the production process, from marketing requirements to bug-tracking, and implemented a pre- and post-sale customer support team, relying on trouble-ticketing and knowledge-base tools.
- » I was also in charge of managing the relationships with all the European customers.

#### 1991 - 1998 **IXI** - Ingénierie Concourante et Systèmes d'Information

IXI was at the time a remote subsidiary of COGEMA, that employed 150 engineers for a business of about 15 M€. Its business areas addressed technical consulting, and software applications development.

- » I was in charge of the technical and financial management of a business unit.
- » I was responsible for the whole lifecycle of integrated and complex software development projects, from bid preparation until on-site delivery and maintenance, as well as customer relationships.
- » This involved management of technical resources, in terms of hardware, software and skills; definition, provisioning and exploitation of the heterogeneous and distributed company Information System; deployment of company-wide software applications.

#### 1985 - 1991 **CEP SYSTÈMES**

This company focused on reliability-related studies for the industry. For my PhD in collaboration with INRIA, I made the design and implementation of a software tool supporting static metrology and programming standards named MÉTROPOL. After 1988, I brought the product to the European market.

### *Some representative projects (latest first)*

*PlanetLab* **PlanetLab** is a world-wide testbed dedicated to research in the networking area. It uses virtualization to provide users with so-called slices on any number of the 800+ nodes scattered around the world, that are currently managed from two operations center, located in Princeton and in Paris.

*Virtual world* **V-eye** research application aims at demonstrating the purposefulness of the IP multicast mechanism for implementing a very scalable virtual world, supporting audio-video remote conferencing, as well as high-definition video.

*Soft PBX* The **Centile's Ipbx** aims at providing a full replacement of a traditional PBX, as a software-only solution. It is based upon many Internet and telephony standards; it is designed for being hosted, so as to support many SME's in a single data center, and to allow for easy management by the end-user and by the operating provider, resulting in a very cost-

effective approach to outsourced telephony systems

*Modeling and Simulation* **MissRdp** (see also [this link](#)) is a modeling and simulation system based on colored Petri nets. This wide-scope tool allows to quantify the macroscopic behavior of complex systems, and is very well suited for simulating, assessing and dimensioning large industrial objects.

*Manufacturing* For COGEMA, I designed and implemented a Technical Data Management System and a Diagnosis Tool, that provide the factory operator with up-to-date and relevant data about the installations. They decisively contributed to increase both productivity and safety on the plant.

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## *Other stuff*

*Sailing* I have been sailing around the world on various kinds of ships in the 35-50 feet range.

I have sailed the West Indies from Grenada to Virgin Islands, around the Seychelles archipelago, in Greece and in Turkey. I crossed the Atlantic Ocean from Pointe-à-Pitre to Gibraltar on *Abricotine*, a *Vauquiez 49"*.

I am part of the racing crew on *Maluba*, formerly an *IMX-40*, and who I conveyed all across the Mediterranean sea until Tunisia. The *Maluba* team now runs a *Ker 39*.

I am also fond of *Toccata*, a prototype 43"-open, with whom we reliably sailed in duo from Brittany to Scotland, Spain and Ireland.