

Guillaume PEAN

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## NETWORK ENGINEER

### Work experiences in IT

**From Feb. 2000**

**Global Crossing Ltd**

**Basingstoke**

I am currently employed by **Alten UK** and I am working as a Network Management Engineer within Global-Crossing for a contract ending in December 2002. I am part of the Network Management Group. This group provides technical support to the Network Management Center and sets up new network monitoring and reporting solutions as well as maintains existing production systems. The NMC monitors more than 4500 Cisco routers on the Global-Crossing network. I worked with three main products: **HP Open View NNM**, **Concord Network Health** and **Netcool Omnibus** running on UNIX Solaris stations.

Here are the different projects or activities I worked on:

Unix scripts for Network Management purpose:

I wrote several scripts to help monitoring the network:

- Shell script using SNMP and routers config files to get routers information and update the routers database.
- Shell script to monitor HSRP routers running IOS 12.0 or lower (not supporting the HSRP MIB and traps) and sent traps to the NMS when the HSRP state change (monitors 450 routers).
- Shell script to change the SNMP configuration (community, SNMP NMS IP address, etc...) of all the Cisco routers on the network (more than 4500)

Concord Network Health administrator:

I have been for 6 month the administrator of Concord Network Health boxes (E450 SUN Solaris stations). This work includes:

- Day to day maintenance and administration (user administration, patches, cron jobs, performance...)
- Filesystem management (Veritas Volume Manager)
- Web server administration
- Unix Scripts:
  - Shell script to generate large amount of Trend reports, store them and to send tar files to Customer Service Managers
  - Shell scripts to update and clean up Network Health Database and to send reports by mail to the Network Health operators
  - Script to help the Network Health operators for the Take On process of new routers (auto-discovery filters, reports template auto-creation)
- New reporting solutions (like latency reporting using Cisco remote ping or RTR Cisco functions).

Weekly ISDN testing:

I did a Unix script to weekly generate the list of ISDN routers to be tested (about 400) and a Visual Basic script under Reflection X to test ISDN links of routers and create an Excel report containing a test result sheet per customer.

IXNET:

I spent two month in IXNET, branch of GC in the London City, working on HP Open View installation, configuration and documentation, SUN backup strategy (using Veritas NetBackup), filesystem management and hard disk recovery using Solstice Disk Suite (ODS) and SUN monitoring using TIBCO/Hawk.

Satellite monitoring:

I installed and configure a Netcool socket probe to monitor Satellite alarms. Both NMC and in Crewe and Basingstoke have now the visibility of DAWCOM Band C and Band Ku alarms of satellites.

### Firewall monitoring:

I installed on configured the Netcool Firewall probe for several Check Point FireWall-1 boxes for a government customer. This probe gives the NMC the visibility of abnormal behaviours on the network (denial of service, machine scan, port scan, machine overuse, password guessing...)

### New UK National Lottery network:

I have currently the responsibility of the design of the Network Management System for this project. The network consists in 25000 terminals connected via ISDN to 5 AXE10 voice switches and 70 Mass Dial-in Nevada devices. It also includes 2 NT Broadcast servers, 10 ACP100 devices and connection over the Global-Crossing ATM/Frame Relay core network to Camelot Hosts.

During the pilot, I installed and configured a development Network Management Station (HP Unix) running HP OpenView and Netcool. I configured all devices to sent alarms and to be manageable by the NMS and I also configured the NNM Netcool probe to forward, de-duplicate and filter these events.

I created a real-time Web reporting solution for Camelot using Apache Web Server, MRTG/RRDTOOL, Unix scripts and CGIs.

## **June to Sept. 1999**

## **Packard Bell NEC (internship)**

## **Angers**

For four month, I installed a monitoring station for the production network of Packard Bell NEC. This station uses the SNMP protocol. The installation consists in putting SNMP agents on the NT servers, SCO Unix servers and Novell Netware servers and configuring SNMP agents of a router CISCO 4000 and switches 3COM 3300. Agents deal with the monitoring station via SNMP protocol and send alarms when an error occurs on the network. When an alarm is detected, the station can send an email and/or a SMS GSM message.

I created a private MIB for PBNEC in order to manage specific variables like SQL locks and network intrusions. I integrated CISCO MIB and 3COM MIB to monitor the router and switches. I used NMA (Netware Management Agent) MIB to control Netware servers and SFTIII links. The router and switches integrate RMONs which enable the control of bandwidths and exchanges between stations.

I chose SNMPc of Castle Rock as a monitoring station. I developed a SCO Unix agent in C-Shell and a Windows NT Agent in C++ Builder. The system is now operational and reduces intervention time on the production network.

## **July to August 1998**

## **Thomson-CSF (internship)**

## **Cholet**

I worked in this company for two month. This training period consisted in the creation of a format file translator. It had to convert files from the Allegro CAD to files which could be understood by the TERADYNE universal L353 tester. There was an old software in Fortran under Unix OS which had to be changed to a C++ software under Windows. This work had been made on time. Now the new system is faster an more practical than the Fortran software.

## **Other work experiences**

**1993-1994 :** Harvesting maize and shallots during the summer,

**1994-1999 :** I give mathematics and physics private lessons,

**1997 :** I worked in a local community for the highway maintenance during the summer.

## Information Technology knowledge

### Operating Systems

MS DOS, Windows NT/2000, Unix (Solaris, HP-UX, SCO, Linux), Novell Netware.

### Programming languages

C++, Java, Pascal, Delphi, C++ Builder, Eiffel, Perl, Shell scripts  
Web : HTML, CGIs, XML.

### Network sciences

Network infrastructure, OSI model, TCP/IP and X25 protocol,  
Internet protocols : IPV6, VPN, VoIP,  
High bandwidth protocols : ISDN, Frame Relay, ATM, SDH, xDSL,  
Network monitoring and security : SNMP, Isec,  
Network administration on Unix/Linux servers (NFS, FTP, DHCP, NIS, DNS, SAMBA),  
Network administration on NT servers (NetBEUI, FTP, DHCP, WINS, DNS),  
Client/server applications,  
Network interconnection and exploitation (RIP, IGRP),  
Telecommunication networks : GSM, PMR.

## Education

**Cisco Certified Network Associate (CCNA 640-607) obtained 12/06/2002 (94%)**

**ESEO, Ecole Supérieure d'Electronique de l'Ouest (Electronics Grande Ecole).**

**1999-2000:** Last year of the E.S.E.O. cycle with a speciality in Computer sciences – Networks and Telecommunications.

**1998-1999:** Second engineer year in the E.S.E.O.

**1997-1988:** First engineer year in the E.S.E.O.

**1995-1997 :** Class which prepares students to the entry exams for the Grandes Ecoles.

**Lycée David d'Angers.**

**1995 :** Scientific diploma (French Baccalauréat equivalent to the A-Level) grade B.

## Languages

English (TOEFL 553, FIRST)

German (elementary)

## Other

### Interests

Music, theatre, movies, Aikido, Jujitsu, bodybuilding, swimming, dance, mycology.

### Driving licences

Car and motorbike

I have my own car