



# NETWORKING

Research and Technology

## Networking

Computer networks have become a crucial element in the smooth running of any company, whether it is an SME or a multinational company.

Indeed, it needs to be increasingly reliable and secure, while accommodating an ever-growing number of users and new applications that are more and more hungry for bandwidth.

Moreover, all this has to run in a context that is usually heterogeneous considering the hardware (2000/XP/Vista, Linux, Unix.) and the protocols used (TCP/IP, Ethernet, Netbios, Samba, ...).

In addition, traditional data networks are increasingly facing new challenges such as service level requirements or voice/data integration (VoIP, IP Telephony).

## Evaluation of new protocols and technology

Multitel works closely with the academic staff of the Faculté Polytechnique de Mons. This synergy enables us to best study and test the most recent network protocols and technology.

Among others, let us mention :

- ⋯ 802.11 b/g/a/n wireless networks
- ⋯ Network management and security
- ⋯ Voice and data convergence within a single network infrastructure
- ⋯ Performance simulation of networks and protocols
- ⋯ Protocol emulation software

## Expertise in computer networks

As experts in computer networks for many years, our researchers and software engineers have acquired a considerable experience in software development projects. Therefore, they can choose the very best technology given the specificity of your application.

Moreover, thanks to that considerable know-how, our team has grown in order to provide a wide range of services in function of the developing environment : Linux, Windows,....

## Focus on a current project : VoIP

Thanks to its expertise in open source software, Multitel is working closely with NOVACOM, department of its spin-off IT-OPTICS, on the development of robust and evolutive Voice over IP solutions.

The IP-PABX then developed is provided as a finished product with a configuration interface user/administrator and includes a billing software among other applications. That IP-PABX is based on well-proven open source software components which guarantees stability : GNU Gatekeeper (H.323), SIP Express Router (SIP), Asterix (SIP, H.323, MGCP, ...),

Tailor-made applications can be developed in order to customize the existing telephone architecture, dedicated softphones, administration interfaces, link with existing software (CRM...)

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