



**M A N E X**

Network and Software Engineering



# Manex overview



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## MANEX

Since 1996, Manex has been offering **consultancy and development services** for the implementation of **software solutions and networking** with an important focus on **security**.

We are constantly striving to provide the best combination between standard software, **open source** and **custom development**. Our long experience and our technical skills allow us to make the most out of new technologies.

We believe that your software systems capture the true essence of your business. It is therefore vital that you have total control over them.

Our goal is to make you independent of technology or proprietary software.

## MANEX, ACTIVITIES

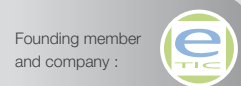
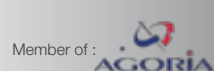
### Manex activities include:

- Consultancy,
- Integration of information systems,
- Software engineering: modelling, design and development,
- Training.

We are not trying to do everything, but what we do, we seek to do it well ....

### Our focus areas are:

- Internet systems: transactional web sites, web applications (eCommerce, eBusiness), database connections, messaging systems, B2B, ...
- Security systems: cryptography, public key infrastructure (PKI), certificates and electronic signatures, Single Sign On (SSO) ...
- Mobile systems: iPhone, SMS, GSM, J2ME, ...



## MANEX, STRENGTHS

### Open

The technologies selected by Manex are deliberately open, with a maximum potential for adaptability and scalability.

- Java (JavaME, JavaSE and JavaEE,) PHP and XML allow our applications to run on all types of machines and operating systems (Windows, Linux, Macintosh, Solaris, AS400, Windows mobile ...).
- Reuse of Open Source (Spring Framework, Hibernate, JBoss, Open Cms, Compiere, Sugar CRM, Open ERP, etc..) allows us to significantly speed up developments and ensures the wheel is not reinvented. The availability of sources is also a better guarantee for continuity.
- We master execution platforms that are free and open (Linux).

### Experience

The expertise of Manex collaborators guarantees high quality counselling before, during and after the project. Some of them have over 20 years of experience.

### XP methodology

The Agile methodology used at Manex for software development provides maximum flexibility throughout the life cycle.

Frequent contacts between the client and developers improve communication and allow us to integrate users comments very early in the process. The client selects what is important and in which order features must be integrated. The timing can be adjusted at anytime to accommodate new needs. Delivery of regular versions of the application gives the customer a clear view on the progress of work.

Beyond the conventional customer-supplier relationship, the Agile methodology integrates the partners in a process that targets the full satisfaction of expectations.

## MANEX, TEAM

A young and dynamic team of a **dozen highly qualified people** is led by **Vincent Keunen, Ir.**

# Manex references



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- MyLampiris / Lampiris
- Buzz du père Noël
- CRC / CHBAH
- Amptraide
- Cullen International
- Agoria
- ONE
- Spacebel
- Idewe
- Médibridge
- Liège University
- Décathlon international Lille
- Disteel Cold
- Centre Hospitalier Chrétien de Liège (CHC)
- Mosacier
- meXi, PC Solutions
- Steel Coat Service Center, Arcelor Mittal
- Giga
- IBM
- Mims
- Schlumberger
- Apple
- Sun Microsystems
- SWDE – Société wallonne des eaux
- Dresdner Bank
- Winterthur
- Advalvas.be, TVLokaal.be, Annet.be, Analyst.be
- Health Ministry
- Wallonia diverse hospitals
- Forem
- Technofutur



**MyLampiris / Lampiris** Creation of the Customer Area for Lampiris website. The customer can view all his bills, find his statements, analyze its indexes ... <http://mylampiris.be/fr/home.html>

**Buzz du père Noël** Website creation for «le buzz du père Noël» Operation. This site is an action word-of-mouth, aiming to collect donations that will be used for pediatric services in hospitals..

**Meal Order for CHBAH** Application Management meals :

- Calculation of the meal for a person based on his diet.
- Generation of various documents related to the meal.
- Synchronization of data from patients on the basis of the admission of CHBAH.
- Patient management, systems, services, beds.
- Importation of meals based on Excel.

It is a Web application based on the following technologies: Java, Spring, Hibernate, Google Web Toolkit, GXT (GWT framework).

**Amptraide** The association Amptraide is composed mainly of people with an amputation. Able-bodied persons from their family members, medical and paramedical staff are welcome to participate in or support the efforts of the association.

For this project, Manex has built a web portal that includes a showcase website, a forum, news system and email management.

**Cullen International** Implementation of a CRM «clients» data management for Cullen International. The first phase is an analysis of society needs and an analysis of Open Source tools used on the market. A second phase is to select a suitable tool for the company and implement the system.



# Manex list of projects

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**Agoria** : Realization of an Internet platform, with a website allowing the exchange of offers and requests for subcontracting in metal and mechanical. The main features are: authentication, management of supply and demand, the creation of sheets, summaries and statistics, schedule ads.

Technology used : Spring and Spring MVC, Hibernate, Tiles, DWR, Javascript and CSS.

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**ONE**, Implementation of a complete infrastructure ranging from tools and Java development to the operational procedures. Formation of the development team to Java technologies and Agile development methods. Development of a web application in Java for the regional committees to submit projects for nurseries and monitor these projects.

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**SPACEBEL**, Development of a client-server application for the operational monitoring of satellite navigation system Galileo.

Application developed in Java and C + + with technologies such as CORBA for reliable communication with the components of the constellation. The client application is intended to be displayed on large control panels in the operating room.

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**JaWS** for Idewe : implementation of an enterprise management systems (occupational health and safety on the workplace).

The application is composed of a rich client + servers.

Information is collected in the field and synchronized to the servers. Every bit of information is traced (who has changed what and when). The software components are developed in Java. Transfer of information can be secured by iBats.

Numerous components, open source code and libraries were used for this project. [www.idewe.be](http://www.idewe.be)

### Development of a complete management system for post-graduate training

Development of a complete management system for post-graduate training. Various tools allow the management of : training (moderation and administration); contact information of members, all activities organized by the association, subscriptions, newsletters, publications, etc ...

Reuse of numerous components, open source code and libraries.

[formcont.auwe.be](http://formcont.auwe.be)

### Development of a portal for the University of Liège alumni

Development of a management application for alumni. Database of 60 000 users. Variety of tools for the management of members, all kinds of activities of the association, subscriptions, newsletters, publications, etc ...

Creation of a portal that allows alumni to follow the life of the association, to interact with it and to reconnect with their former classmates.

public website : [www.amis.ulg.ac.be](http://www.amis.ulg.ac.be)

We have used many components, libraries and open source middleware for this project.

### Ebusiness : web application to manage customer orders

Integration with the website of the company (also by Manex). Daily data are automatically updated securely. The web application gets data from an IBM AS400. Login for the secure section. Transfer of data between the AS400 and website (delocalised) is done via our iBats system.

We have used many components, libraries and open source middleware for this project. Hosting on a Linux system. [www.steelcoateurope.be](http://www.steelcoateurope.be)

**The CHC Group (Center Hospitalier Chrétien)** has 6 hospitals, several clinics and other sites. For CHC, Manex has developed a «secure web proxy» based on open source tools. It allows different partners (employees, external doctors, doctors working from home ...) to connect to different applications (eg medical records of MIMS OmniPro) made available by the CHC. Access from a simple web browser.

No client-side installation. Access is completely secured and partners authentication is done via the Belgian identity card (eID).





Manex has developed for **GIGA Group (Ulg)** a web platform allowing shared and secured access to a database of scientific data, with interactions and links between these databases.

GIGA (Groupe Interdisciplinaire de Génoprotéomique Appliquée) at Liège University is composed of an excellence center in génoprotéomique (CBIG Center Biointegrative of genoproteomic), an area for industrial implantation and a training center in biotechnology space, all around platform services. This center brings together **280 researchers from 22 research units from Medicine Faculties, Life Sciences, Veterinary Medicine, Applied Sciences and Management at Liège university**. This platform involved the implementation of a middleware layer («business logic» layer) between the «presentation» layer (web pages, applets, ...) and «persistence» layer (DB backend, other data containers ...).

Many open source components have been used for this development. The site is hosted by Manex with free tools (operating system, application server, database ...) [www.giga.ulg.ac.be](http://www.giga.ulg.ac.be)



**meXi** : Development and implementation of a secure medical messaging system. Mexi allows exchanges between + / - 2.500 users of the Belgian medical world. Each transaction is traced throughout his lifetime. The system generates and manages users keys based on an internal PKI and a certification authority trusted by the medical sector. The service is offered by PCSol as SAAS (software as a service), based on traffic. This system was approved by the Belgian Order of Physicians and has been in use since the mid-nineties. [www.mexi.be](http://www.mexi.be)



**Community Portal** : web portal for the Belgian French-speaking medical world. Developed for pcsolutions. Development of various services online (community management). Integration with other services (secure medical messaging ...). eBusiness Part : accounting system integration.

Windows NT system. public website : [www.docs.be](http://www.docs.be) and [mailboxes@docs.be](mailto:mailboxes@docs.be) à : [www.docs.be](http://www.docs.be) et [mailboxes@docs.be](mailto:mailboxes@docs.be)



**Portals** [advalvas.be](http://advalvas.be), [TVLOKAAL.BE](http://TVLOKAAL.BE), [ANNET.BE](http://ANNET.BE), [ANALIST.BE](http://ANALIST.BE)  
Consolidation of the technical infrastructure of several web sites into a unique platform. Migration of content from html to xml. Automatic content generation from database stored xml (XSLT, JSP, Cocoon 2, ...). Jboss application server and development of EJB (Entreprise Java Beans). Users profiles centralized in OpenLDAP. Uniform authentication and authorization services (AAS)

Portals accessible from : [www.advalvas.be](http://www.advalvas.be), [www.tvlokaal.be](http://www.tvlokaal.be), [www.annet.be](http://www.annet.be), [www.analist.be](http://www.analist.be). Reuse of many open source components and frameworks.

### **iBats: Inter Business Automated Transaction System**

iBats is a software platform to enable the secure, automatic and open transport of electronic data and documents.

iBats includes a PKI (Public Key Infrastructure) which provides authentication, privacy, message integrity, non-repudiation and traceability. It integrates easily with existing IT applications.

The iBats technology has been used for over 10 years by two Belgian medical messaging systems. Together, these two messaging systems have more than 10 000 users (doctors, laboratories and hospitals). However, iBats is a product that can be adapted to other areas: (law, financial, social, institutions, clusters, large companies...) [www.ibats.biz](http://www.ibats.biz)

**HEPI-GO, Health ministry :** Participation to the HEPI-GO study (counselling) whose aim is to create identifiers («pseudonyms») for the various medical and para-medical actors in Belgium.

The system must allow for mass analysis and data processing (statistics, cross database, ...) while protecting the confidentiality and privacy. Using advanced cryptographic techniques, smart cards, etc... Collaboration with the Department of crypto, KUL (University of Leuven).

### **Jafar is a set of Java Advanced Facilities for Audit and Reporting**

Today, Jafar is used by a prevention at work service that audits more than 40 000 companies and 600 000 workers each year. However, Jafar is a tool for all businesses collecting data, whatever their field of activity : security auditing, quality evaluation, check-up, technical audits.

Jafar is a tool to help auditors or investigators collect data in the field. It then generates reports on collected data in a snap. Finally, it synchronizes the data with a central server, which ensures consistency of the data for the whole system. The technology used to design this software is Java, XML, Web services and so on. For more details see [www.jafar.biz](http://www.jafar.biz)





**MedSERVE** : Development and implementation of a system for the secure and automated exchange documents. This system allows exchanges (Electronic Data Interchange - EDI) between hospitals, laboratories, medical specialists and generalists. Each document is traced throughout its life.

The system implements and allows the management of a complete PKI (Public Key Infrastructure), without relying on public certificates (no purchase of certificates is required).

The service is offered by MediBridge as SAAS (Service As A Software) based on a monthly subscription. There is also an interface with accounting databases. [www.medserve.be](http://www.medserve.be)



**MedSSO (Single Sign On)** : Centralized authentication system. MedSSO guarantees the authenticity and the qualification of the user (eg that the user is a doctor) and provides access to various services (depending on the profile). For example: MedSHARE, MedTUNNEL. [www.medshare.be](http://www.medshare.be)

**Consultancy in internet Systems** web server tuning, ldap installation, security. Solaris and Netscape. [www.dresdner-bank.com](http://www.dresdner-bank.com)



**MedTUNNEL** : Development and implementation of a secure tunneling system to access central resources via multi-protocols in the medical sector. This system provides encryption and strong authentication of users to access any type of online resource. Authentication is based on an internal PKI (no need to buy certificates) and includes various management tools: certification of public keys and certificate generation, storage on a central server, automatic certificates distribution (automation of key logistics).



**meXi tunnel** is a solution to create secure connections to a server. It was developed for PCsolutions. With meXi tunnel, the user can have secure access to data by simply using their usual web browser. At each connection, meXi tunnel authenticates users and provides data encryption to give maximum integrity for the consultation of medical information.

<http://www.mexi.be/fr/meXitunnel.php>



**MedRef** : Drugs database developed on Newton  
[www.manex.biz/WWW-FR/docs/medref.htm](http://www.manex.biz/WWW-FR/docs/medref.htm)

**Prototype of an electronic medical notary**

**Support system for analysis results** (confidential)

**Newton Mobile Electronic Healthcare Record** : Mobile medical record (Newton) and synchronization of EMR on PC and Mac.

Manex (no longer on sale) is a system for the management of patients. Composed of a Newton assistant and custom medical software, it stores the information of all patients and finds it in a snap.

[www.manex.biz/WWW-FR/docs/manex.htm](http://www.manex.biz/WWW-FR/docs/manex.htm)

**Project on mobile urology Newton**

**Mobile project with Schlumberger Paris** (Newton EMR)

For **Mosacier**, Manex has implemented a messaging system entirely based on open source tools (operating system, mail server, various utilities, Windows and Macintosh client). An open source ldap server centralizes all users profiles. Server management is performed via a web interface. In addition, Manex has installed a webmail (messaging web interface), a mailing lists manager, an anti-spam and anti-virus (all open source). Also installed is a web server with an ebusiness section (development tools are open source).

[www.mosacier.be](http://www.mosacier.be)

**Décathlon International Lille** : Consultancy on OpenCMS, an open source content management system (tool training, ldap integration, infrastructure integration ...). [www.decathlon.com](http://www.decathlon.com)



**Schlumberger**



**DECATHLON**



**MANEX**

