

## PENTACOMP - DataWarehouse and e-solutions

Only a well-organized company which is managed in a modern way can be competitive and successful nowadays. One of the factors determining competitiveness is the ability to make the right decision quickly at each level of a particular organization as well as having access to information needed in the decision-making. The cornerstone of the process is a thoroughly considered and well-designed IT system.

The role of an IT system is to gather a growing number of business data, to ensure that they are of good quality and to enable efficient access to data for applications supporting business processes. IT systems are ever more often required to grant secure and permanent access to the gathered resources - regardless of time and place.

**Pentacomp** specializes in designing and developing custom systems - dedicated systems. Contrary to generic off-the-shelf software, dedicated systems are created to meet specific requirements and needs of a particular organization. Such approach results in perfect functional match and attractive price/performance ratio.

**Pentacomp** offers solutions for the most demanding and most dynamic areas of the market:

- Telecommunications industry,
- Banking and finance,
- Power engineering industry,

as well as state administration.

**The systems created by Pentacomp** are configurable, safe, efficient and reliable as well as intuitive and user-friendly. Our highest quality solutions are backed by up-to-date, proven technologies and methods, well-qualified specialists with profound knowledge and company experience.

**We develop and deploy the following:**

- **Decision Support Systems (DSS) and Executive Information Systems (EIS) - Data Warehouse (DW),**
- operating databases management systems,
- e-solutions that use Internet and Intranet, enterprise information portals,
- Customer Relationship Management systems.

Pentacomp follows the rule - **TECHNOLOGY SHOULD SERVE PEOPLE**. We want to make it real for our customers.

Our experience and profound knowledge of Information Technology enable us to choose optimal tools for developing a particular solution and for designing systems that improve the operation of an organization. Above all, however, these tools help us to create solutions that are functional and user-friendly. Fitting the technology to the problem and realizing projects with the use of up-to-date, yet proven, technologies - this is a guarantee of both high performance and stability of the developed systems.

**Pentacomp** designs and deploys software for most popular hardware platforms, operating systems and software environments.

### **Methodology**

Our methods of realizing IT projects are based on the following current standards:

- Object Analysis and Design Methods,
- **UML** (Unified Modeling Language) Notation, which is a standard of information exchange within a project,
- Project organization based on **RUP** (Rational Unified Process), which helps to plan and supervise work progress.

While creating a system, we use leading **CASE** tools:

- **Together** - the best tool available for object modeling and design, used for application designing,
- **Oracle Designer** - a perfect tool to design databases, particularly in the Oracle system

### **Databases**

Pentacomp uses the most up-to-date database solutions - relational databases and object-relational databases.

- **IBM DB2**
- **Oracle 8i/9i**,

These technologies, the most advanced ones available, enable us to create systems that meet high requirements for efficiency, capacity, safety and reliability - systems that can operate 24 hours a day.

### **System Architecture**

Pentacomp develops systems using modern architectures and tools. In order to build complex IT systems, we use proved solutions:

- **middleware** - which allows to get the required system properties:
  - transaction monitor - **ACMS** with a **TP Web Connector** package which facilitates the connection between the **ACMS** application and the Internet technology,
- message queuing system: **IBM Websphere MQ**;
  - **Reliable Transaction Router (RTR)** - a system of built-in protection against site failure.
- **application servers** - with the most dynamically developing and most broadly used technology being **J2EE** (Java2 Enterprise Edition), which uses the EJB (Enterprise Java Beans) standard, as well as JDBC (Java Database Connectivity), JTA (Java Transaction API), JNDI (Java Naming and Directory Interface), JRMP (Java Remote Message Protocol), JMS (Java Messaging Service):

Pentacomp specializes in developing **IT systems** which are being **realized for each customer individually**.

Our trump cards are eight years of experience in accomplishing complex IT projects and thorough knowledge possessed by our specialists.

The use of modern technologies and the following of proved methodologies enable us to provide our customers with efficient and user-friendly software.

We realize complex IT projects consisting of several stages, the number of which depends on the customer's needs.

We provide professional IT services in the following project stages:

- Requirements analysis for an IT system,
- The outline and detailed design of an IT project,
- Implementing the system,
- Installing and testing the system with the use of representative sample data
- Deploying the system,
- Maintaining the system.

In addition, Pentacomp provides consulting services and expertise to clients introducing IT systems as well as project auditing.

At customer's request, Pentacomp also works out IT systems development strategies and provides project management services, supervising the realization of an IT project on the customer's behalf.

We also have experience in integrating IT systems, mainly with the use of middleware.

**Our strong points are the following:**

- Well-qualified and competent staff with thorough knowledge,
  - Experience in realizing large and complex IT projects/systems.
  - The variety of the IT technologies applied,
  - The use of up-to-date software engineering methodology.

