

COMBIT IT Ltd.

Company brochure

2022

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Introduction

COMBIT IT Ltd. is an innovative, Hungarian-owned medium-sized enterprise. Since the company's foundation in 1985, our basic goal has been to develop unique software and technological equipment using the latest technologies.

Our company's main strategic objective is to achieve full customer satisfaction with quality products and services, and to expand our customer base while carrying on with existing partner relations. In 2009, we opened our Veszprém site to meet the growing business demand; initially, a part of our mobile app development team has worked there.

In order to provide our customers with an even fuller range of services, we have included hardware sales and operation in our field of activity, and established a distributor relationship with the following partners:

In 2002: with Oracle Hungary Ltd:



In 2013: with Hewlett Packard Hungary.

Our company has ISO 9001, ISO 14001 and ISO 27001 quality assurance certificate.

The structure of our organization

At present, our organization has a staff of 45 people, which is expanding continually from year to year, including job scopes. In the beginning, only developers and system architects worked at our company. Today the work force has expanded with traders, marketers, and project leaders, thanks to our constantly expanding product range and projects. Nevertheless, even today nearly 85% of our employees are developers and system architects.

Main activities

Software development

The members of our developer team have been working in ORACLE environment for more than two decades. We pay great attention to the expansion of our knowledge. Several of our developers have Oracle Certified Professional certification. Our experts are familiar with different Unix and Windows-based systems.

We have extensive experience in the development of integrated IT systems, tailored to individual needs, and we offer a full range of services to our partners for systems developed by us. Beyond the knowledge of technologies, we also place great emphasis on the broader application of development methodologies. Within the development projects –as a part of a full solution- we deliver, install and deploy the database management system, application server and other components required for the operation of the applications developed for the customer.

Our professional competencies:

Operating systems:	AIX, Solaris, Unix, Linux, Windows, iOS, Android
Application servers:	WebLogic, GlassFish, JBoss, TomCat, NGINX
Programming languages:	PL/SQL, Java, C, C++, PHP, C#, Kotlin
Database systems:	Oracle, Derby, MS-SQL, MySQL, Postgre
Software designer tools:	Oracle Designer, Enterprise Architect
Software developer tools:	Oracle Developer, JDeveloper, Eclipse
Workflow management systems:	Oracle BPEL, UniWebTeam
Front-end developer tools:	React, Angular, Material UI

System integration

We generally develop integrated application systems which communicate intensively with the partner's other systems. We prefer XML-based communication and web services, not only with other systems, but also with the elements of our own systems. This way we can benefit from modularity and Service Oriented Architecture (SOA).

Most of our systems are web-based, which require only a browser to run. The business logic runs on application servers and data are stored on a separate database server (3-layer technology).

Mobile application development

Our developer team is familiar with iOS and Android development environments, enabling us to continuously expand our product range and to provide more sophisticated services to our existing and prospective partners. Developments are made mainly in native languages and in Flutter.

Main projects

Over the years we have developed a number of solutions both in the field of public administration and in business.

Our main partners:

Public administration

National Health Insurance Fund of Hungary (Legal Relationship Query system, and eight more applications providing national client contacts)

National Media and Info-communication Authority (Development of measurement service system)

Hungarian Central Statistical Office (system integration)

Hungarian Energy Office (Administrative workflow support system)

Ministry of Economy and Transportation (OSAPSTAR – data collection system)

Ministry of Defence, Secretariat of Sport (National Sport Information System, Competition Permit Module)

Municipality of district XVIII, Budapest (Essentia – data warehouse development)

Business entities

Hungarian National Lottery Company (Oracle based middleware development – lottery ticket administration)

AEGON Hungary General Insurance Ltd. (WRG system)

Konzorcia Ltd. (development of a KSR system for the individual numbering of medicine boxes)

MERAT Ltd. (development of unique sampling system)

4iG Plc. (cooperation in the development of the National Entrepreneurship Mentoring Program and OKIRKapu (Environmental and nature protection procedure)

General Directorate of Water Management (device delivery and software development)

National Meteorological Service (installation of measuring stations)

Our latest projects with the partners above:

NEAK (National Health Insurance Fund of Hungary):

upgrading of VIREP (virtual electronic wallet registration system for pharmacies)

Renewal of Panka (reports of Pharmaceutical manufacturers and Pharmaceutical distributors)

Holmes development (query of health services associated with a TAJ number (social security number) from a data warehouse and entering data in a police response letter or in a pre-formatted Excel table)

Sport federations:

IT support of the Handball Association events

NETFIT: website development of a health-oriented fitness measurement and evaluation web system operated uniformly in the Hungarian school system

Student Olympiad school sport monitoring and entry system

General Directorate of Water Management

Improvement of VIZEK (Framework for the Informational, Controlling, and Integrated authority tasks related to Water usage)

Richter Gedeon Plc.

Development of a system supporting the provision of data on the use of carcinogenic substances

Development of a unique application of task delegation for the Occupational Health and Safety Management System of the Department of Safety and Security

National Media and Info-communication Authority

Development of EMIR (Uniform Measurement Service Information System)

In these projects, our tasks include consulting, software development, hardware installation, system integration, education, data- and system migration, system maintenance, and software support.

Our Research and Development Projects

FIXPRED

Development of a gene prediction control and error correction system.

AVITAR (Accreditable Water Quality Remote Sensing System)

Environmental measurement data collection system delivered as a complex solution; in addition to the actual measurements, it can control the safety equipment of the measuring area, the registration of environmental parameters, the remote checking of the state of measurement devices.

SZETIKO (Establishment of the Wastewater Treatment Specialist Center)

Complex review of sewage plants, IT support for expert activity aimed at increasing operational efficiency

DYNPLAZA

Framework for serving GPS-based services, and the design and implementation of associated data analysis center and service features

Smart home remote control system

Supplementation of utility data collection system with services provided to individuals. Goals include remote checking and control of the heating system, as well as safety developments and the implementation of the cost sharing of heating.

Mobile language teaching center

A mobile language teaching center that develops electronic foreign language learning multimedia materials for devices with internet connection, including smartphones that promote effective language learning and preparation for language exams.

Our project partners: Pannon Language Certification Center, LSI Informatics Training Center

GRID

This project is aimed at developing an „on-line data provider integrated grid-based water quality monitoring and expert system”.

Our project partners: University of Miskolc Applied Earth Sciences Research Institute, Apertech Ltd., Hungarian Development Institute Nonprofit Ltd.

PublicEye

In a consortium with the University of Szeged and Evista IT Ltd., our company has developed the prototype of the "Public Eye" traffic safety application for smartphones. The developed system is able to take pictures from a moving vehicle and recognize traffic

situations. It provides the opportunity to establish violations of rules based on the recordings. If the system is used widely, it will have a positive effect on traffic safety.

Airpain

A language teaching app that can work even offline and uses games to prepare the user for stressful situations at the airport and during travel. It uses game-like activities to reinforce skills, while telling stories, thereby making learning fun. During the game, in addition to getting familiar with the situations, English language skills are also improved with the help of dialogues.

Smart Block – building-oriented IoT network and service

It is created as a smart building system by combining the automation of apartment buildings and smart home solutions, as well as the operational functions of the apartment building. The resulting product set implements the monitoring and control of common areas and infrastructures with a unified local communication network and distributed data collection and control units, as well as the functionally customized monitoring and control of privately owned building parts.

Smart measuring device to control hypertension and hypotonia

The goal of the project is to develop a system that provides a solution for the continuous health monitoring of people suffering from high blood pressure (hypertension) and low blood pressure (hypotonia), which are growing public health problems.

Innovative business cloud services

R &D-based development of software and technological equipment that use state-of-the-art technology. In the framework of the project, we offer a service that provides immediately available computing infrastructure. When using the service, consumers do not need to invest in servers, storage, or network devices; they can use this within the framework of the dedicated server or virtual server service.

Diagnostic modeling system (KFI-19)

The result of the project is a data processing device that can be connected to an imaging equipment (CT, MR, PET-CT), to which AR or VR glasses or a 3D printer can also be connected.

With the help of the equipment, doctors can make diagnoses much faster and safer, and preparation for operations can be much more precise. 3D models can also be used for educational purposes.

Our currently ongoing research and developments project

WREN – A monitoring and prediction procedure supporting climate adaptation

The aim of the system is to support protection against the harmful effects of climate change and drought damage with modern digital devices. During its practical use, the real-time, complex decision support system will be able to improve the spatial and temporal resolution of current drought monitoring systems by using remotely sensed and local data, as well as by implementing geospatial and mathematical innovations and innovations based on artificial intelligence.

As a result of the project, a uniquely designed satellite equipped with novel measurement capabilities will be created, the orbit of which touches Hungary more often than that of commercial satellites. In addition, a unique server and system architecture, as well as a web application will be implemented, which will help to obtain multiple resolution forecasts.

Our products

SIMON International

SIMON International is an equipment-independent spectrum monitoring system. It facilitates starting online measurements immediately or on a schedule. It helps in the evaluation. It supports location determination by using different measuring devices, as needed. Its interface is intuitive, map-based, and user-friendly.

WRG (Web Report Generator)

An application server with client component written in Java. The WRG client can be run through a browser. The server allows you to run reports that were previously registered and uploaded. It works as a stand-alone service. The tool can retrieve data from any database or data source (either TXT or XML file) and produce a report using a procedural language (SRL) in multiple formats (XML, PDF, XLS, RTF, etc.)

Server-side operation system references: AIX, Linux, Windows, Solaris

Although the tool is database-independent, it is used exclusively on Oracle databases.

ADTHLoader

Data warehouse loader application. It is written in Java, and it loads data from many formats into an Oracle database. It uses meta data stored in its own repository for loading. Known input formats: XML, TXT, SQL, XLS (can be in variable format - dynamic column management!)

OPT

Universal form fabrication application. With the help of it, one can easily create web-based publishable data collecting forms without former programming knowledge. The appearance of the forms can be created in an RTF file with a text editor. After uploading the prepared forms into the application's repository, users can start to fill them out. We can query the data received in a variety of formats.

VIDRA

System for the management of IP based camcorder systems, and an automatic archiving system for recordings. Based on its special features, it is ideal primarily for educational purposes. The shots you make can be edited with simple- to- use- solutions through the browser before publishing. Recordings can be supplemented with various texts or multimedia information. They can usually be linked to the whole video, but they can also be linked to a single point. This makes it possible to search for specific moments of recordings.

Marketing strategy

Our company engages in many different IT development tasks, and accordingly for different products, different strategic directions need to be defined. Setting up the strategy to market a company's products in each case starts by defining sales channels, positioning the products and services, developing pricing strategies, defining distribution channels, and marketing communication strategy, and harmonizing the former two. We focus specially on the narrowest and most reliable "designation" of the target groups of consumers, and we open to new market targets in accordance with consumer experience derived from the initial target group. In all cases, these are defined based on the demographics, attitudinal characteristics and the experience of experts in the sales of the product. The company's products rely on a wide range of target groups (e.g.: Lystra mobile application - young people aged 16 to 28, who have not yet graduated, BEKUTA patient tracking system, middle-aged people with cardiovascular disease who possess the basic ability to use mobile apps, etc.).

The price level is determined by considering competing enterprises and their products on the market, as well as the expenditure on human resources and mediated services. Our company's product prices are tailored according to the goal of stable, secure and long-term company operation. Our company relies on a variety of marketing communication areas and has several ways to communicate with its customers and consumers. These areas are mainly advertising, sales promotion, PR, personal sales and DM, but we rely mostly on online marketing communication due to our profile and activity, thanks to our experience in the field, our expertise and the infrastructure available to us.

Market environment, our strategy

Market environment

Our market environment can be classified into two categories as a product development company and as a service company.

Product development

In this field, due to the diversity of our products, we analyze the market participants and competitors individually, so our general market analysis cannot show an adequate picture of some of our products.

Services

In this area we work closely with several partners, and we know about the pricing strategy of close competitors. Due to the size of the market and the number of players, general market analysis is not only hardly possible.

Market strategy

With our existing products, our company wants to continue to operate on its current market, but for the sake of development, our goal is to increase market share and market development. In order to achieve our planned results, our products are continually enhanced and developed in features, which allows us to successfully increase the width of our existing market.

In our strategy, we are continually adjusting to the market environment and emerging needs, which is why we can achieve constant growth. Our goal is to cover the needs of our existing and prospective partners professionally. We are continually expanding our services, even with new market niches, which is why we are able to achieve a wider variety of services, and thus a more favorable position compared to competitors.

In 2019, we joined Grepton Group, which turned out to be a very good decision in many areas. First of all, professional cooperation brings many benefits. Within this framework, we participate in many joint projects with Grepton Ltd. and the other members of Grepton Group, which greatly improves work efficiency for each party involved. In 2022, we moved to a shared office building, so the professional and management cooperation have become even more efficient. Of course, our cooperation also has many benefits for our market presence, we can participate in projects for which the necessary expertise, experience and staff can only be accumulated by specialists working for other members of the Group.