ICZ

[COMMAND & CONTROL SYSTEMS]

WHERE WE ARE

ICZ

To help the military commanders and staff, as well, to organize information and overrun the enemy in the area of intelligence and information. The primary goal is to collect, process, visualize and distribute the tactical information on all the command and control levels.

DELINFO offering brings a full line of products and services in the area of research, development and implementation of specialized information and geographical information systems, as well as solutions for information protection and security to ICZ's already extensive portfolio.

THE COMMAND AND CONTROL SYSTEMS

[**DELINFO COMPANY**]

DELINFO has been in the information technology business since 1993, and a member of the ICZ Group, one of the leading integrated software and network solution providers in Central Europe, since 2008. ◄

[**PARTNERSHIPS & CERTIFICATIONS**]

DELINFO is ISO 9001:2008 certified and authorized by the National Security Authority (NBU) to handle sensitive information up to the level of "SECRET." DELINFO often employs the use of large project teams consisting of a goal-driven consortium of suppliers to carry out its work. ◄

[**SOME OF DELINFO'S KEY PARTNERS INCLUDE**]

► The Military Technical Institute of Aviation and Air Defence (VTÚLaPVO)
► The Military Research Institute (VVÚ)
► The Military Technical Institute of Ground Forces (VTÚPV)
► The University of Defence Brno
► AURA, s. r. o.
► RETIA, a. s.
► ALES, s. r. o.
► OPTOKON a.s.
► PRAMACOM-HT spol. s r.o.
► URC Systems, spol. s r.o.

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> Since its beginning, the DELINFO company has been focusing on the provision of complex services in the area of open-system IS construction.

The basic principle underlying all of the system integration activities, is total independence from any specific IT products. Instead, the designers are committed to providing maximum support via large-scale projects that focus on and facilitate user needs, quality architecture, application adaptability and transparent growth.

In the area of information systems, DELINFO offers a diversity of experience acquired from working with and deploying the widest range of modern project and software technologies as well as from close cooperation with some of the world's leading companies.

The DELINFO team has a collective know-how required to design information systems that employ the latest globally recognized methodologies and their expertise in the management of information system development and strategic IT planning is second to none. DELINFO uses verified IT design methods and offers specialized expertise in the design of data security and protection solutions for information systems.
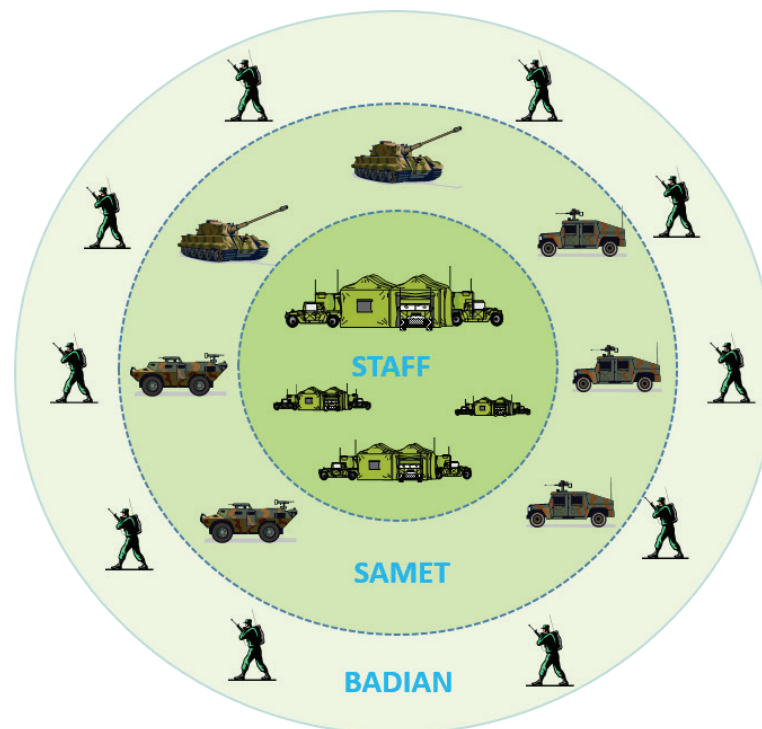
DelINFO

MEMBER OF **ICZ GROUP**

SERVICES AND SOLUTIONS

OUR CORE AREAS OF ACTIVITY INCLUDE:

The Interoperability and sensors integration to C2 systems

The Tactical Command and Control System of Ground Forces - DELINFOS

The interactive virtual simulation

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ICZ*DELINFOS
One system, seamless solution.

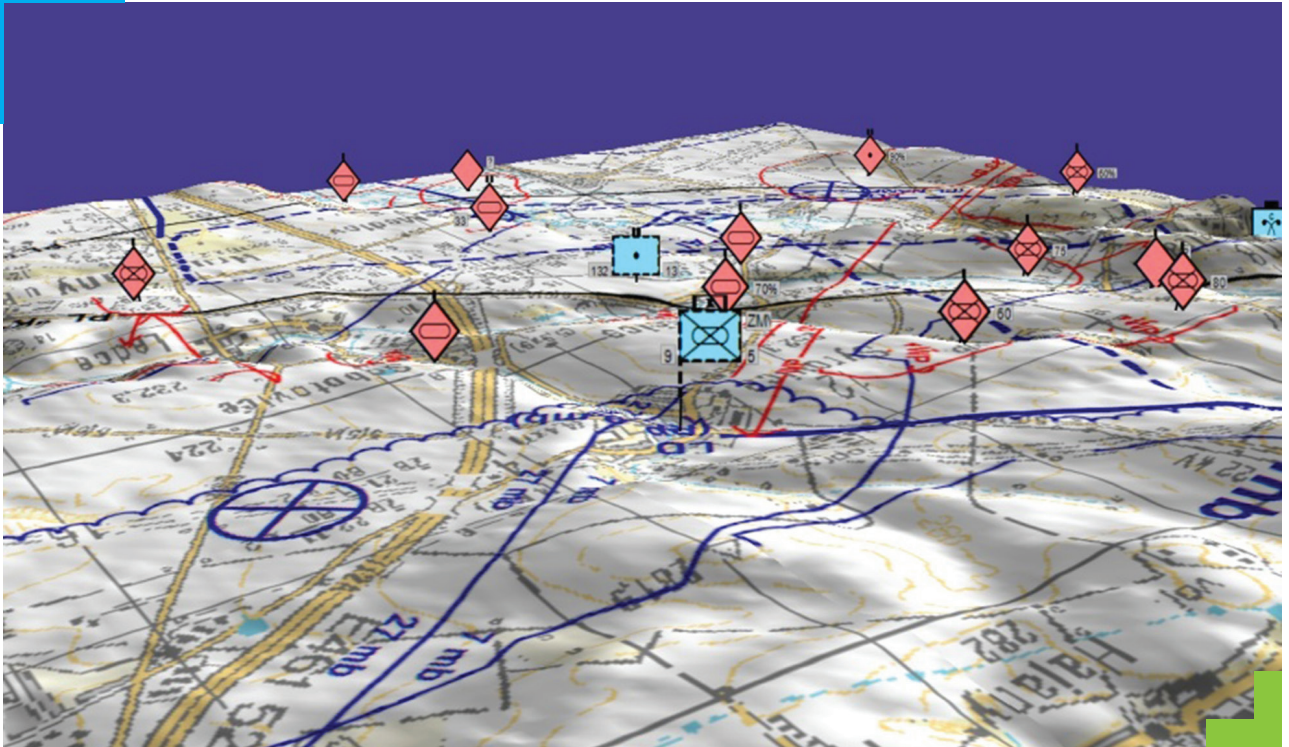GROUND FORCES TACTICAL COMMAND AND CONTROL SYSTEM (ICZ*DELINFOS)

The primary integrative information system for the support of field-condition activities. It contains:

- ▶ **STAFF COMMAND AND CONTROL INFORMATION SYSTEM (ICZ*DELINFOS-STAFF)**
- ▶ **BATTLE MANAGEMENT SYSTEM (ICZ*DELINFOS-SAMET)**
- ▶ **DISMOUNTED SOLDIER SYSTEM (ICZ*DELINFOS-BADIAN)**

DELINFOS

has been developed with respect to the specifications of **Multilateral Interoperability Programme (MIP)** baseline 3.1. as a tool for C4ISR in AOO.
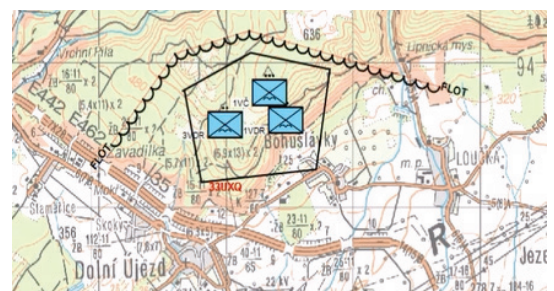
DELINFOS support C4ISTAR concept.

The Tactical Command and Control System of Ground Forces

[ICZ*DELINFOS-STAFF - STAFF COMMAND AND CONTROL INFORMATION SYSTEM]

The subsystem of DELINFOS is dedicated to support command and control on the workstations within the LAN on the command posts of the task force. SC2IS contains modules and applications enabling effective data preparation, processing, sharing and distribution within the command post or among them.

Features

▸ Command and control automated tools for commander and staff of the ground task forces.

▸ Vertical and horizontal information exchange.

▸ Pursuable as well as stand-alone PC by a user out of command post.

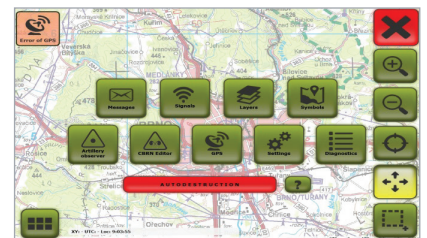▸ Interoperable interface by use of NATO coalition standards.

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The Battle Management System (BMS)

[ICZ*DELINFOS-SAMET – SITUATIONAL AWARENESS AND MESSAGE TERMINAL]

The key advantage of this module is maximal automation of the Situational Awareness generation, simplified operation, which allows information exchange without delay by means of the touch screen.

Features

▸ Exchange of text and position messages, pre-defined signals and tactical overlay.

▸ Vehicle diagnostic information display.

▸ Sensor integration platform.
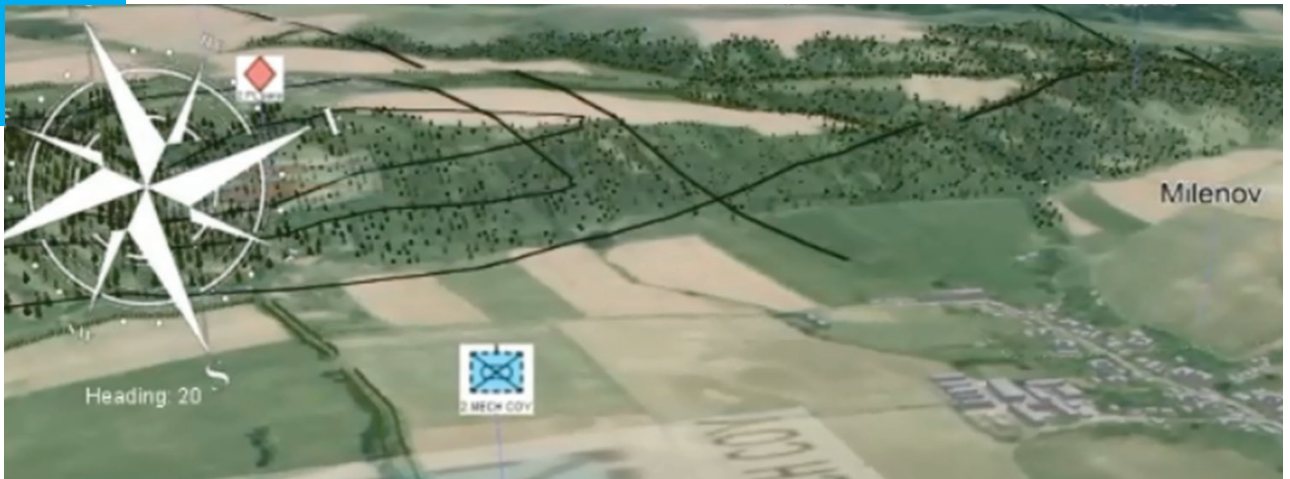

Dismounted Soldier System (DSS)

[ICZ*DELINFOS-BADIAN – BATTLE DIGITAL ASSISTANT]

It has been dedicated to support basic command and control functions of the users, who use a stand-alone workstation as a part of their individual equipment. BADIAN's applications can be operated on a commercial or ruggedized PDA/Smartphone.

Features

▸ Basic Situational Awareness above map.

▸ Message and Tactical Symbology Exchange with superior or co-fighters.

The Command and Control System ICZ*DELINFOS supports current NATO trends and standards:

FMN (Federated Mission Networking)

C4ISR (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance)

SOA (Service Oriented Architecture)

MIP 3,1 (Multilateral Interoperability Programme v. 3.1)

NFFI/FFI (NATO Friendly Forces Identification)

NVG (Nato Vector Graphics)

ADEM (Alternate Development and Exchange Method)

[INTEGRATION OF SENSORS]

The C2 system supports sensors from a wide area of army forces such as:

▸ Combat (weapon and platform sensors).

▸ Artillery.

▸ CBRN.

▸ Intelligence.

▸ Medical.

▸ Air - via ADatP-3.

[COMMUNICATIONS]

Different communication protocols are implemented in particular on the BMVIS/SAMET/BADIAN part:

▸ DICOM RF 13xx, 20xx.

▸ Harris AN/PRC 117F/G, AN/PRC 152, RF 7800S.

▸ Thales 148 MBITR/JEMM.

▸ Satellite services – BGAN, Inmarsat, Iridium.

▸ GSM.

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The interactive virtual simulation

DELINFO can be your experienced partner in interactive virtual simulation. As it was involved in the Czech Army project „Tactical training in small units". DELINFO has a skilled personnel for its own development within VBS3 (Virtual Battle Space) from Bohemia Interactive Simulations (BISim, AUS)

Virtual Battlespace 3 (VBS3) is a fully interactive virtual tactical simulator for training missions. The simulation is provided under a specific scenario in some of a pre-defined environments, with defined groups, persons, vehicles, weapons, etc. Hundreds of entities can be emloyed in one scenario. All of these entities and groups can be programmed in order to get them behaved autonomously within the training scenario. The entities are controlled either by users or artificial intelligence. This enables to train against artificial intelligence, an operator controlling enemy entities, or other trainees.

VBS3 is mainly used for the tactical training of soldiers mostly in smaller units, but also for crisis management in conjunction with the army, police and fire brigade. It can also be used for training in security agencies.

Benefits

▸ Connectivity with other simulation systems (e.g. One SAF Testbed Baseline) via protocol DIS/HLA

▸ Connectivity to C2 DELINFOS_CZE (DIS/HLA)

▸ After action review

▸ Interconnectivity issues of VBS3 with virtual simulators (real cabin vehicle simulator – SAAB SWE)

▸ In use in the US Army, Australia, Poland, Netherlands …

▸ It is convenient to simulate not only an open area but also in urban area, activity near a checkpoint,

▸ It can also be used for IED teams, FAC, military police …

Models

▸ Purchase from BISim

▸ Own production - 3DSMax, Rhinoceros, Oxygen (3D)

▸ Conversion to VBS – VBSDN (license)

Maps

▸ Conversion from .tiff, .geotiff, satellite picture

▸ Relief map – DTED 2

▸ .shp – shapefiles – rivers, forest etc. (DEI)

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