The Warrior of the 21st Century
WRIST COMPUTER

PDA WITH INTEGRATED GPS
As part of the IS PINK (C2IS) project, the Slovenian Armed Forces are developing a technical solution which will allow the integration of individual warriors into a comprehensive command and control information system. Squad leaders of the dismounted crew will be equipped with rugged ultra mobile notebooks, the characteristics of which are: small dimensions (can be stored in the pockets of the battle dress uniform), touch screen, integrated GPS and wireless communication. Fully rugged full function Windows XP computer ensures the operation of the same C2 applications already used by the SAF for the needs of the IS PINK also on the individual soldier level. Thus it provides the exchange of information and assures situational awareness throughout the entire chain of command. For example, the force commander at the command centre in homeland can see all the data entered by an individual soldier at a check point in the KFOR mission.

THE COMPUTER WITH THE BMS (BATTLE MANAGEMENT SYSTEM) APPLICATION INSTALLED WILL GIVE THE WARRIOR THE FOLLOWING OPTIONS:
- Situational awareness,
- Geospatial information,
- Reporting functionality,
- Messaging functionality.

RUGGED ULTRA MOBILE COMPUTERS WILL BE USED BY THE FOLLOWING SPECIFIC TYPE OF USERS:
- Squad leaders,
- Forward observers,
- Special forces,
- Patrols on SAF missions,

In order to investigate the possibility of applying new IT technologies for future warriors in the SAF, the KISB project was launched in 2006. The aim of the project was to develop a prototype of the integration of soldier’s communications-information devices into the fragmentation vest. The result of the project is the Personal Tactical Information System (OTIS). OTIS consists of an integrated system of sensors, interaction devices (Human Machine Interface) and a supply system, which provides the warrior in the field with information on the battlefield situation regardless of weather conditions, time and terrain configuration.

OTIS COMPONENTS:
- Presentation system (head mounted display)
- Palm
- GPS position sensor
- Six-axes head direction sensor (x, y, z and inclinations in all three axes)
- Inertial device
- Gyroscope
- Camera

THE MAIN RESULTS OF THE KISB DEVELOPMENT PROJECT WERE THE FOLLOWING:
- Personal Tactical Information System – OTIS,
- “Smart” battery - enables the charging of different devices and from different sources, regardless of voltage and polarity,
- Helmet with presentation system (head mounted display and navigation system) - provides an interactive graphical image of the battlefield.
LASER RANGE FINDER

NIGHT VISION DEVICE
With the aim of improving lethality and harmonizing with NATO ammunition standards, several new infantry weapons and related accessories have been introduced into the Slovenian Armed Forces.

The following items have been fielded in recent years:

- Beretta M 92 FS 9 mm Para semiautomatic pistol,
- FN F 2000 S 5.56 mm assault rifle (part of them equipped with underbarel 40 mm grenade launcher),
- FN 7.62 mm Ultima Ratio Commando I sniping rifle (part of them equipped with integral silencer),
- FN .338 Lapua Magnum PGM sniping rifle,
- FN 12.7 mm Hecate II sniping rifle,
- FN Minimi Para 5.56 mm light machine gun,
- FN MAG 7.62 mm universal machine gun.

All rifles and machine guns are equipped with modern optical equipment:

- Assault rifles have Aimpoint sights, part of them also have laser pointers or Acog optics,
- Sniping rifles have Schmidt & Bender PM II or Nightforce NXS optics, both with add-on Simrad night modules,
- Machine guns have Aimpoint or Elcan optics.

Some other weapons with NATO calibers were introduced earlier (for example H&K MP 5 9 mm Para submachine gun and Steyr SSG sniping rifle), while some additional models have been procured recently and only in small numbers (special purpose SIG pistol, Berelli combat shotgun). Moreover, heavier weapons (FN M2 HB QCB 12.7 mm heavy machine gun and H&K AGL 40 mm automatic grenade launcher) which are normally mounted on vehicles, are also equipped with tripods and used as classical infantry weapons.

As a result of the re-equipping process of the Slovenian Armed Forces referred to above, several obsolete infantry weapons have been withdrawn from use. The new models include complete support: ammunition, manuals, training, and maintenance.

The soldiers are also equipped with new laser range finder Metrix and night vision binoculars.
COMPLETE EYE PROTECTION SYSTEM

RADIOLOGICAL DOSIMETER
Subsystem
Protective Clothing & Individual Equipment

LOAD CARRYING EQUIPMENT
The existing load carrying system is a result of joint effort by the Slovenian Armed Forces (SAF), the Basic Acquisition and Equipment Agency from Ministry of Defense, the Slovenian company Arex d.o.o. and its British partner C.O.C.. The SAF load carrying equipment is conceptually modern and modular. With minor improvements of certain modules it will provide a long-term solution for the SAF. It includes the best global solutions known in this field, with an addition of our own expertise and support of domestic industry.

In general, load carrying equipment consists of four basic modules: basic back-pack, combat back-pack, sleeping bag and tunnel tent module, and bearing vest. Mission-driven components are compatible and flexible.

PERSONAL BALLISTIC PROTECTION
As a result of lessons learned in international operations, the majority of modern armies take it for granted and consider it necessary to procure effective and light-weight personal ballistic equipment. The following personal ballistic equipment has been procured and fielded into the SAF in recent years:

- TACTICAL FRAGMENTATION VEST
  The design of the vest TFJ SB 21, its weight (5.5kg with two additional protective plates) and the level of protection (basic NIJ IIIA, with NIJ III plates) provide one of the best combinations currently available in the market. The vest is completely compatible with the new carrying system.

- COMBAT HELMET
  The helmet, made by Slovenian company Veplas, provides a high level of protection against shell fragments and bullets. It is made of flame resistant aramids and is highly resistant to tear and wear. A special plastic fitting offers high level of protection against trauma. The helmet is compatible with protective mask and glasses, and can be fitted with the night vision goggles.

- PROTECTIVE GLASSES
  The EPS-21 glasses represent an inventive approach toward a complete eye protection system. It provides protection from grenade fragments, dust, and the wind.

MODULAR CLOTHING SYSTEM
The battle dress uniform of the Slovenian soldier is made from quality materials which will increase comfort and decrease heat stress plus reduce the threat of thermal, infrared detection. Two new color patterns of the uniform have also been designed to meet the requirements of national and international duties of Slovenian forces.

Personal equipment also includes a closed system bevy bag, two sleeping bags and lining.

NBC
All soldiers are equipped with a new protective mask, light protective clothing, gloves, a personal decontamination kit and a radiological dosimeter.
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