FENIC^{3}S

Artillery fire control system

Fire ENhancement, Information, Command, Control and Communication System FENIC^{3}S is an integrated comprehensive system for battlefield observation, target acquisition, different data sets transfer, ballistic computation, fire command instructions generation.

Particulary designed to support all the classic and rocket artillery units from battery up to regiment level such as:

• Self propelled howitzers in all calibers,
• Towed howitzers 105 mm,
• Towed howitzers 155 mm,
• Towed howitzers 122 mm,
• Towed guns 76 mm,
• 122 mm rocket launchers,
• All types of mortars.

Main functions of the FENIC^{3}S:

• Battlefield observation and target identification,
• Topographic calculations - determination of unknown point coordinates, own position, magnetic north setting by built-in electromagnetic compass or calculated from a known point of reference, true north setting using an integrated inertial system, firing zones definitions, hazard zones, etc.
• Objects database building (target locations, target types, etc.),
• Fire planning, execution, and control,
• Calculation of the weapon ballistic elements, using different weapons and projectiles, charges, fuses, fuse setting, number of rounds, firing interval, distribution, trajectory elements, engagement type, fire adjustment data,
• The ballistic calculation for different calibers,

- Supports different firing modes:
  - Classic mode of operation using optical sights,
  - Automatic Line of Sight using an inertial unit,
- Provides:
  - Different fire patterns,
  - Systematic fire,
  - Fire for effect,
  - Line target engagement,
  - Multiple Rounds Simultaneous Impact - MRSI,
  - Burst mode firing.
- Data transfer among all participating units in the system (using VHF radio with UDP or TCP/IP standard protocols),
- Wire communication providing radio silence,
- GIS - Digital mapping,
- GPS and INS with odometers navigation,
- Meteo-ballistic preparation (ground meteorological or meteorological bulletin).

Forward Observervation

Gun Recording

MET Data