FOBOS - missile launching control system

GENERAL

Fobos is compact and fast missile launching control system, that primarily was originaly developped for **RBS15B** missile.
It can control up to eight missiles, and can be installed on a ship or on a land wehicle.
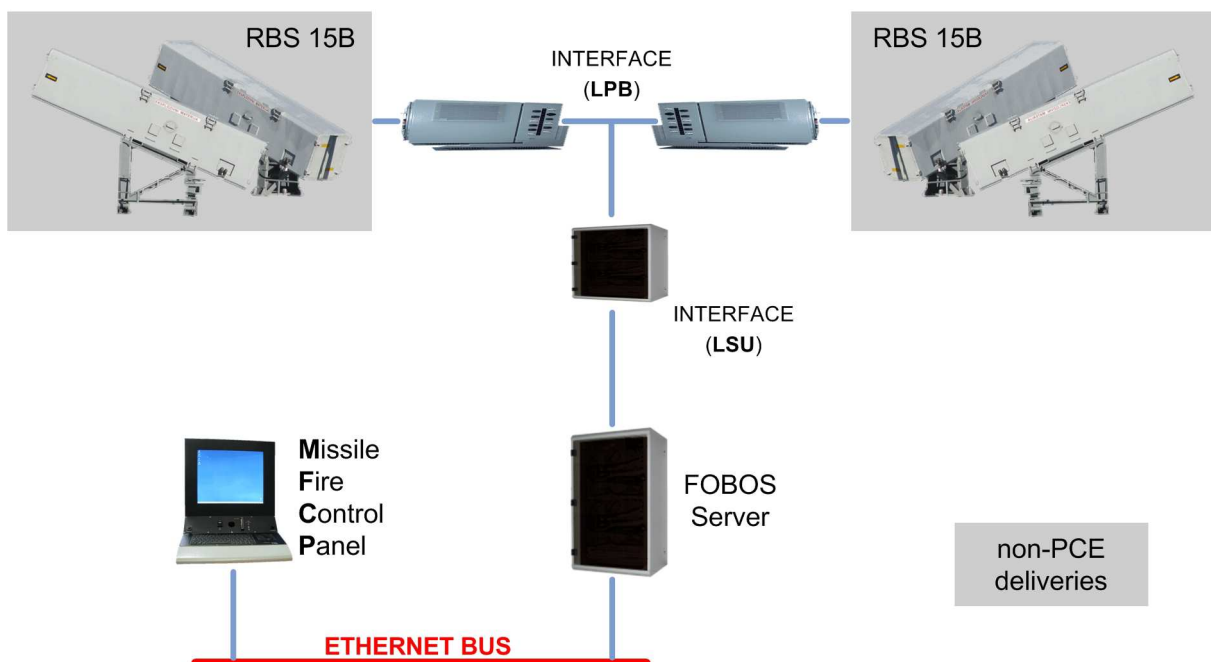
Fobos System is composed of :
- Control computer unit - CCU
- Missile fire control panel - MFCP
- Power distribution box - PDB
- Launcher switching unit - LSU
- Launcher power box - LPB

It can be used as a standalone system(on board) or in a connection with the **Deimos** fire control system, which enables extended functionality providing detailed graphical display of tactical situation, missile target data tables and missile flight trajectory. Missile fire control panel can be stand alone unit or it can be integrated within Tactical & Missile Console.

Launching parameters calculated by the **Fobos** system are:
- Target range and bearing
- Yaw angle
- Time of flight
- Autodestruction time
- Missile flight profile
- Time from missile launching untill the moment of the seeker start

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SYSTEM STRUCTURE

Fobos control computer system

Fobos control system is a client-server computer architecture which performs all calculations, user control functions and target control functions. For its calculations **Fobos** computer receive data from ships sensors(course, speed, bearing, range, roll, pitch, wind) or trucks sensors(heading,roll, pitch, wind).

System communication with user interface equipment is performed by means of Ethernet LAN.

User interface

The **Fobos** Standard user interface is MFCP – Missile Fire Control Panel, integrated in the Tactical & Missile Console-TMC.

In a land vehicle **Fobos** instalation, light computer terminal is used for this function.

Canister with missile

Canisters with missiles are mounted on the pedestal on the ship or on the truck.

For connecting missiles with the **Fobos** system, interface module specific for misssile type is used (LSU+LPB).

Note! Canisters with missiles are not PCE delivery

MAIN TACTICAL TECHNICAL DATA

Own ship:

- Roll/Pitch angle	±25° / ±10° max
- R/P angle velocity	25 / 10°/s max
- Speed	25 m/s max

Coastal Mobile Launcher

Truck:

- Roll/Pitch angle	±8° / +5 – -3° max

Measurement ranges:

- Target range	12 – 80 km
- Target angle (from ship)	± 90°
- Target angle (from vehicle)	± 110°
- Target speed	0 – 50 kn
- Time of flight	0 – 310 s
- Air temperature	-35 – +55 °C
- Wind speed	0 – 30 m/s

The Fast Missile Corvette RTOP-12