

### Tactical mobile C<sup>4</sup>I system providing the forces from the launcher to the battalion level

The protection of area in the modern battlefield requires integral solution in order to support all mission stages: from target detection and identification to information distribution to target engagement and BDA.

The solution is based on RAFAEL high mobility vehicle mounted SPIKE ER/LR weapon system, Orbiter Mini UAV and mPrest Mobile Computer (MC) with state-of-the-art C<sup>2</sup> system, Tactical network communication and integration.



### mPrest role in the Tycoon project

#### Tycoon Mission Computer (MC)

MC is a C4I system based on a digital Network Centric Warfare (NCW) system using tactical communication.

The MC receives data and information from the launching system and reconnaissance means and stores, displays and disseminates the data to other units and services in a common language format.

The MC enhances the comprehension of the tactical picture, optimizes use of the weapon capabilities and provides auxiliary tools for navigation. It provides battle planning capabilities and shortens mission planning procedures.

The MC system assists the commander throughout all mission procedures, including mission planning, and mission execution. The system provides the commanders and decision-makers at headquarters an operator friendly way to retrieve data using graphics and geographical tools.

#### MC Main System Features

- Shared Situational Awareness Display (SSAD)
- Mission planning tools
- Fire Feasibility Tests for Spike missiles
- Battle sketches
- Commands and Orders
- Battle Damage Assessment (BDA)

### Tycoon System Components

#### Spike launchers

Provides the ground forces the capability to defeat enemy targets effectively, rapidly and in an agile manner.

#### Mission Computer (MC)

Receives data from launchers and other reconnaissance means and displays it to other units and services in a common language format.

#### Orbiter mini UAV

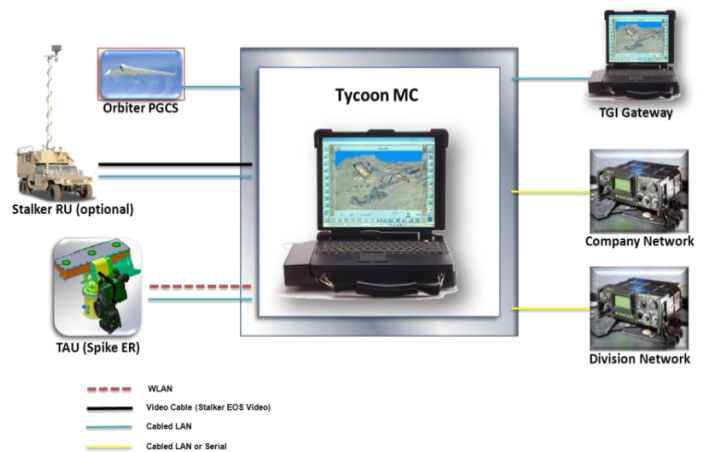
a combat-proven, mission-focused mini UAV, equipped with a variety of sensors which operate continuously throughout the mission during day, night and adverse weather conditions.

### Tycoon System Architecture

The links to the various components include multiple LAN and serial connections as well as wireless LAN.

The link to the tactical radios may be serial or Ethernet according to the exact model actually furnished.

An Ethernet switch may be required if the number of LAN connections exceeds the number of available network adapters on the MC and/or the number of available connectors on the vehicle docking station.



### Tycoon Data Flow

MC is installed in each vehicle that is part of the tactical network as the center of the Tycoon system and links its various components:

- Section and Bridge Tactical Radio for communication within the company network.
- TAU: receives sector and target assignments from the MC and provides video from the optical sights as well as numerous data.
- Orbiter: receives target inquiry assignments from the MC and provide target data as well as video.
- TGI Gateway: provides a bi-directional link with the Torch network.

