

# Military RaM<sup>2</sup>C

## Regional accurate Meteorology Mobile Center

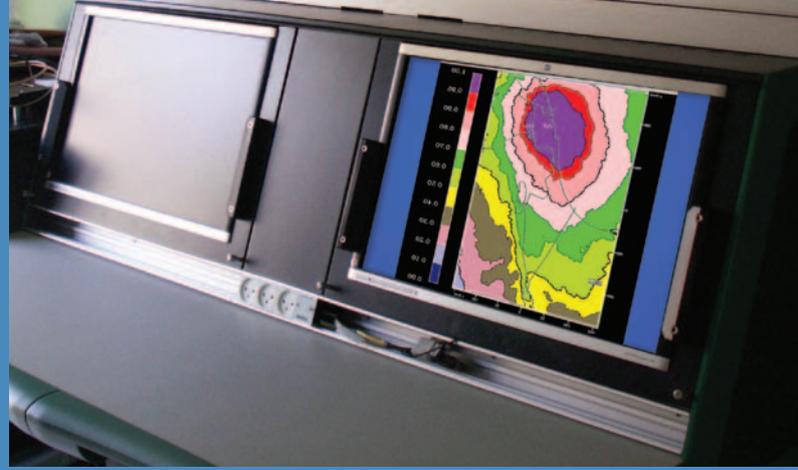
### Local Weather Forecast in the Field

Wind, fog, and other parameters affect battlefield action in a variety of ways, yet until recently modern armies depended on inaccurate general forecasts, which do not always reflect local conditions. Without accurate local weather data, artillery units either need more time and munitions to impact their targets, or use expensive munitions excessively.

Mer Systems offers an innovative mobile meteorology center that can be quickly deployed under battle conditions, providing real time local weather reports for a variety of purposes.

The system's benefits include:

- Local meteorological measurements in the field
- Reducing costs due to efficient use of munitions
- Simple transportation and rapid deployment
- Compatibility with all communications systems



## The Need for Determining Local Weather Conditions

During action, or in drills, precise knowledge of wind speed and direction, rain, heat, visibility and other conditions can help commanding officers to select optimized munitions and direct ground forces with maximal efficiency.

Knowledge of local wind data increases the accuracy of artillery fire, resulting in less rounds shot, more targets hit, and less collateral damage. Moreover, the ability of advanced weapons systems to function under all weather conditions comes at a high cost per projectile. Using more conventional weapons when possible will reduce costs and enable artillery units to do more with less.

## A Battle-Ready System

Mer Systems' meteorology solution consists of the following components:

- An independent compact central command unit, deployed in an armored transport
- One or more local measurement units deployed on the ground and measuring surface and upper air meteorological parameters
- Link to global weather data sources
- Communications system for reporting weather conditions to field units

## Bringing Weather Forecasting to the Battlefield

Weather forecasting used to require extensive IT resources, only available in national meteorological centers. Mer Systems is using state of the art technology to enable weather forecasting within the small space of an armored transport, at the same level of precision.

An advanced algorithm combines global weather data with field observations and models to predict how local weather will develop hours and even days in advance.

## Mer Systems – A Member of the Mer Group

Mer Systems is a member of the Mer Group - a global system integrator since 1982, delivering turn-key solutions for wireless networks infrastructure, broadband infrastructure, homeland security and surveillance, meteorology, renewable energy and water infrastructure. Mer Group operates over 40 local subsidiaries in America, Europe, Asia and Africa.

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