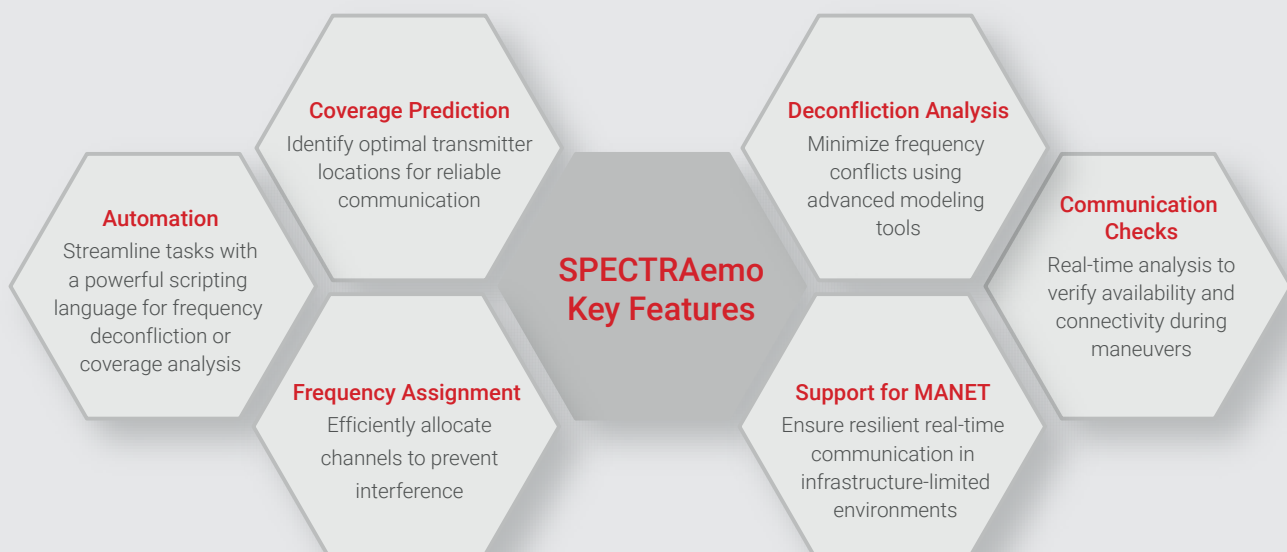## SPECTRAemo: Tactical Radio Planning for Defense

Empowering Armed Forces with Precision, Automation, and Resilient Connectivity

SPECTRAemo is an advanced, dynamic radio planning tool tailored to all types of military missions, from the tactical level to entire operations. Even in offline or disconnected environments, the system ensures that the Armed Forces have access to accurate, real-time spectrum analysis whenever needed.

Core Capabilities of SPECTRAemo

Coverage Prediction
Identify optimal transmitter locations for reliable communication

Deconfliction Analysis
Minimize frequency conflicts using advanced modeling tools

Automation
Streamline tasks with a powerful scripting language for frequency deconfliction or coverage analysis

Communication Checks
Real-time analysis to verify availability and connectivity during maneuvers

SPECTRAemo Key Features

Frequency Assignment
Efficiently allocate channels to prevent interference

Support for MANET
Ensure resilient real-time communication in infrastructure-limited environments
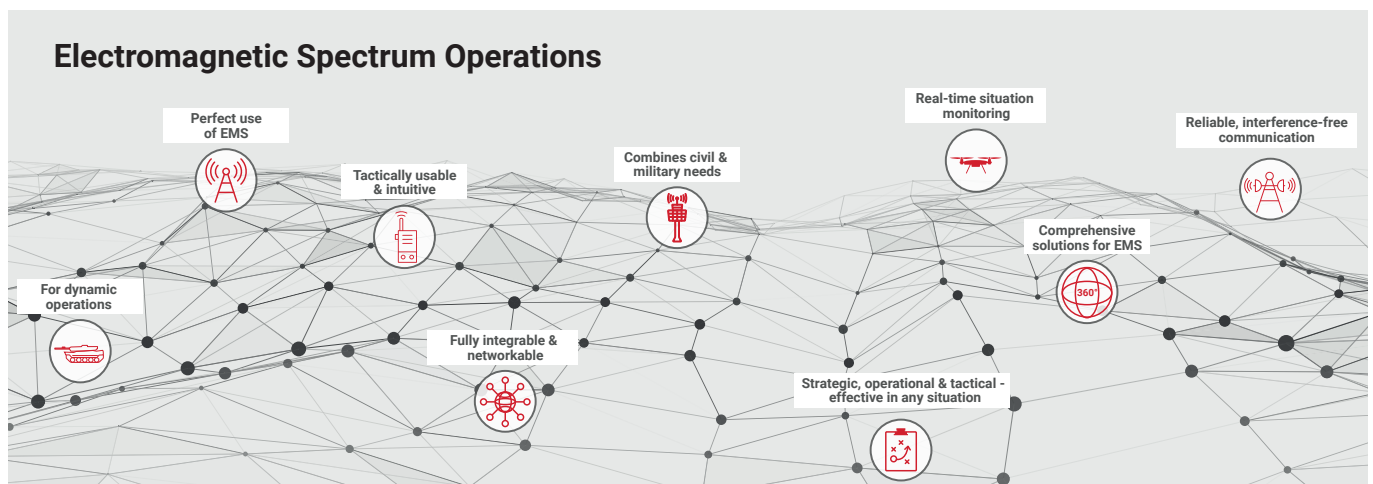
Why choose SPECTRAemo?

- Operates seamlessly in both connected and disconnected environments
- Designed for rapid tactical deployment in the field and at operational headquarters
- Delivers high performance by analyzing large networks and providing fast results through multithreaded calculations

Real-World Applications

- **Frequency Conflict Resolution** - Automated detection and resolution of overlapping frequencies during high-stakes missions
- **Mobile Connectivity Analysis** - Quickly assess and ensure communication links to mobile units and drones, maintaining continuous coverage along movement paths
- **MANET Deployment** - Rapidly set up mobile ad hoc networks for reliable communication in dynamic environments
- **Electronic Warfare and Reconnaissance** - Identify optimal positions for jammers and reconnaissance devices to disrupt enemy communications and gather intelligence

With SPECTRAemo, you **secure communications**, **protect personnel**, and **maintain operational superiority**. Reach out to our experts to shape your next mission advantage.

Electromagnetic Spectrum Operations

SPECTRAemo - fast deployment, intuitive operation

Coordinated decisions powered by real-time data

FJA