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Comunicaciones Tácticas > Tactical Data Links

Multi-rol and Multi-Platform VMF Processor and Systems

Tecnobit's VMF (Variable Message Format) system (VLAD) is a Data Link application at tactical level for ground / air / naval environment operations. The system integrates the physical and logical elements required to establish and participate within a VMF network

Key Advantages:

Based on a powerfull "core SW VMF processor", that allows VMF integrations and solutions for various roles and type of platforms.

Multi-Rol.
VLAD Solution includes in the same SW processor, roles of Striker, JTAC, and Observer (Interoperability Advantages)

Multi-platform.
A SW solution for several types of hardware/platforms and integrations

Modular and Parametrizable SW VMF Solution.
Allows to adjust/setup VMF messages and data with configuration files.

With a modular and decoupled User Interface (HMI) Module for COP representation and operate VMF roles

eVLAD and JTAC Solutions.
Vertical and full systems solutions respectively for evaluated VMF Networks (eVLAD), and JTAC.

Main Technical specifications :

- **VLP (processor)**: Manages the tactical data link VMF messages, as well as the tactical data Link interfaces and network, and the required controllers to provide the tactical functionality to the HMI or an integrated C2 system.

- **HMI**: Modular and optional component, that allows the system's nodes operator to setup, join and maintain a VMF network for the use of the tactical functionalities implemented. Display of the Tactical Scenario using an advanced GIS tool.

- **Data Forwarding:** Forwarding to and from Link 16 (SIMPLE) networks of units and contacts information. Participation as a Link 16 unit.

- **Modularity**: Integration with own CMS VLAD HMI, and possibility of Integration with C2 systems: CMS (Combat Management System), BMS (Battle Management Systems), MS (Mission Systems), and other Operational Systems.

- **Different participant nodes**:
    - JTAC: Deployed soldier/advanced observer.
    - Base station / striker unit (Aircraft, ship, ground station, artillery...).

- **Hardware**: Hardware equipment based on Customer's requirements. Adaptable to the deployment environment.

TDL Specifications:

PARAMETERS	DESCRIPTION

Main Tactical Data Links Standards	VLAD system complies with
	
	   o Message catalog: MIL-STD-6017 Rev. B
	   o Header: MIL-STD-2045-47001 version D change 1
	   o Bearer: MIL-STD-188-220 version D change 1

Main Tactical Data Links Capabilities	• Friendly Force Tracking (FFT): Units information
	• Text messages,
	• Digital Aided Close Air Support (DACAS):
	    • Joint Terminal Air Controller (JTAC)/Joint Fire Observer (JFO) unit.
	    • Striker aircraft unit
	• Situational Awareness: contact information
	• Fire Support
	• Imagery exchange.
	• Forwarding to and from Link 16 (SIMPLE) networks of units and contacts information. Participation as a Link 16 unit.
	• Tested with real radios.