



 **Tactical Communications** > Tactical Data Links

# Multi-rol and Multi-Platform VMF Processor - VLAD

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

## Key Advantages:

**Based on a powerful "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 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 to operate VMF roles**

**eVLAD and JTAC Solutions.**  
Vertical and full system solutions respectively to evaluate 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 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 of units and contacts information to and from Link 16 (SIMPLE) networks. Participation as a Link 16 unit.
- **Modularity:** Integration with our own CMS VLAD HMI, but also easily integrable with C2 systems such as 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 <ul style="list-style-type: none"> <li>o Message catalog: MIL-STD-6017 Rev. B</li> <li>o Header: MIL-STD-2045-47001 version D change 1</li> <li>o Bearer: MIL-STD-188-220 version D change 1</li> </ul>

Main Tactical Data Links Capabilities	<ul style="list-style-type: none"> <li>• Friendly Force Tracking (FFT): Units information</li> <li>• Text messages,</li> <li>• Digital Aided Close Air Support (DACAS):               <ul style="list-style-type: none"> <li>• Joint Terminal Air Controller (JTAC)/Joint Fire Observer (JFO) unit.</li> <li>• Striker aircraft unit</li> </ul> </li> <li>• Situational Awareness: contact information</li> <li>• Fire Support</li> <li>• Imagery exchange.</li> <li>• Forwarding to and from Link 16 (SIMPLE) networks of units and contacts information. Participation as a Link 16 unit.</li> <li>• Tested with real radios.</li> </ul>
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