

# Improved Field Data Collector v4 (IFDCv4)

## Weapon System & TOC

### **Tactical Communications Monitoring and Analysis**

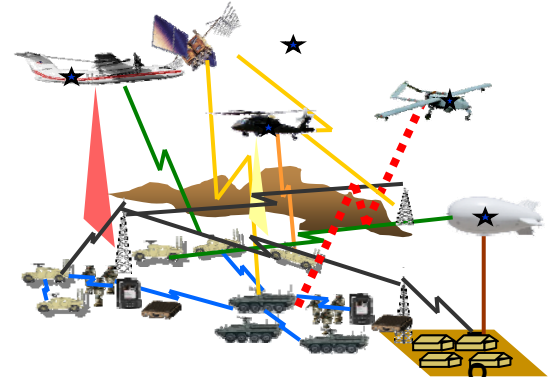
- **Monitor, filter and record up 3 Radio and 2 LAN input channels simultaneously**
- **Tactical Radios**
  - ◇ **SINGARS**
  - ◇ **EPLRS**
  - ◇ **JTRS**
  - ◇ **Any Digital Radio or Network**
- **Records all data – Good and Bad data**
- **Capture down to the bit level full and partial messages**
- **Display message traffic In Plain English**
- **Key in Maturing, Enabling, and Testing**
  - ◇ **FBCB2 on the M2A3, M1A2 SEP, Stryker**
  - ◇ **BlueForce Tracker**
  - ◇ **AFATDS**
- **Used in Government and Developing Contractor Labs**



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Developmental and Operational Testing requires Robust and Rugged Instrumentation for the 21<sup>st</sup> century Network Centric environment. IFDCv4 is the latest in the data collector and communications analyzer family of products.



IFDCv4 enables communications analysis for tactical vehicles and operations centers by providing real-time unobtrusive collection of tactical radio and LAN data during test and training exercises.

## Features

- CPU: Continuum PowerPC Single Board Computer
- Storage: 80 GB Removable Environmentally Conditioned Hard Drive
- Operating System: Linux 2.6
- Four input data ports- Vehicle LAN or Tactical Radios:
  - Point-to-Point (PPP) – 115 Kbps (Full Duplex)
  - SINGARS SIP/ASIP – 38.4 Kbps
  - EPLRS VHSIC – 128 Kbps (Full Duplex) or 256 Kbps (Simplex)
  - JTRS and other - Other
- One SUT port for Local Area Network (LAN) – 10/100 Mbps
- 33Mb/ps LAN filtering and recording capacity
- AES Stored Data Encryption
- Reprogrammable FPGA to emerging Radios and Protocols
- IEEE-1394 Firewire interface for Additional Peripheral Devices
- Quicklook via Ethernet (RTI)
- Starship Remote Control Interface
- Serial Control In/Out
- Built-in Global Positioning Receiver (GPS)
- Time Tagging – Flywheel Accuracy to within one (1) millisecond

## Specifications

- DUST: MIL-STD-810F, Method 510.4, Silicon flour, 10.6 g/m<sup>3</sup>, 8.9 m/s
- VIBRATION: MIL-STD-810F, Method 514.5, Category 20
- SHOCK: MIL-STD-810F, Method 516.5, Procedure I,
- RAIN: MIL-STD-810F, Method 506.4
- EMI/EMC: MIL-STD-461E
- HIGH TEMPERATURE: 50°C (operational) / 70°C (storage)
- LOW TEMPERATURE: -20°C (operational) / -40°C (storage)
- HUMIDITY: 95% Non-condensing
- SIZE: 6.5 "H x 7.0" L x 8.0" W
- WEIGHT: 10.0 lbs
- POWER: 18 – 32 VDC