

# mobileIDM™ Software Modem for Android

VMF/MIL-STD-188-220 B/C/D Change 1, AFAPD, TACFIRE, MTS CAPABILITY

## mobileIDM™ Summary

Responding to the recent emphasis on Android-based Close Air Support / Fire Support tactical applications, Aeronix has created mobileIDM™. The introduction of mobileIDM™ completely removes the need for an external modem for Android-based solutions and significantly reduces power. mobileIDM™ is the Android counterpart to Aeronix' popular WinIDM™ - the only fielded software modem in USAF and coalition tactical applications.

Together with Stauder Technologies' mobileJECL™, mobileIDM™ has been successfully integrated with both Android Tactical Assault Kit (ATAK) and Android—Precision Assault Strike Suite (A-PASS/KILSWITCH).

The mobileIDM™ core executes Aeronix' dual-channel software modem to provide its VMF and legacy waveform solutions. For VMF networks, mobileIDM™ also implements XNPv2 and MIL-STD-2045-47001 Segmentation/Reassembly.

## Portability and Usability



- Adds Combat Net Radio data communications to Android platforms without an external hardware modem.
- SCA-Compliant, purely event-driven architecture minimizes Android battery use.
- Runs as a background service, working with a variety of Android platforms without the need to root the device.
- Works with intelligent hubs and direct connect radio cables.

## Aeronix Overview

Aeronix has been involved in the IDM tactical data link business area since 2001. Aeronix is a multi-faceted contributor to the U.S. Digitally-Aided Close Air Support (DACAS) community. Aeronix modem technology is deployed on multiple airframes, including the F-35, A-10, B-52, ANG F-16s, and multiple ground / vehicular applications, including TACP CASS 1.4.5, BAO-Kit, FAC-Utility, SNC TRAX, ViaSat Mojo, and Teleplan's FACNAV BMS. Besides providing modem hardware/software products, Aeronix actively serves on the Combat Net Radio Working Group and is a proactive contributor to the DACAS Coordinated Implementation movement. Aeronix has developed the XNPv2 C++ Common Software Module (CSM) available through the U.S. government for all modem suppliers.



## Aeronix Services

Aeronix provides value-added services and consulting in the VMF over CNR tactical data link arena. These services include:

- General VMF over CNR Data Links Training
- Aeronix Product Training with Interactive Examples and Exercises
- Integration / Application Level Consulting
- MIL-STD-188-220 Timing Characterization
- VMF Message Parsing

## mobileIDM™ Key Features

- Proven integration with ATAK and A-PASS/KILSWITCH using Stauder mobileJECL™
- Works with a broad range of Android platforms and OS versions without need for rooting the device
- Dual Channel
- Runs as an Android background service
- DACAS Block 1 Compliant
- XNPv2
- Segmentation/Reassembly
- WinIDM Host API Compatible



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