WinIDM™ Software Modem
Aeronix is the world leader in supplying a Software Modem for VMF over CNR (MIL-STD-6017, MIL-STD-188-220, and MIL-STD-2045-47001). The WinIDM™ application provides a software-only implementation of the VMF TDL, including implementations of the MIL-STD-188-220 B, C, and D with Change Notice 1 standards. Additionally, WinIDM implements XNPv2, S/R, and Intraret Relaying. XNPv2 provides automated network management and address assignment, and S/R allows for sending files or imagery efficiently over tactical radios. Intraret Relaying allows for automated range extension through advantaged nodes. To support legacy communications, WinIDM also implements AFAPD, TACFIRE, and MTS data links. For custom data link applications, WinIDM supplies a Raw Data Port to the radio.

WinIDM's flexible architecture allows it to work with a wide variety of hardware solutions, interfacing to COM Ports, USB Ports, IP Sockets, and software object brokers through CORBA interfaces. WinIDM has been fielded with the Harris USB KDU Cable (which is supplied standard with the PRC-117G and PRC-152A), Symetrics U-ROC, Smartronix RDA Cable, and Black Diamond MTS kit.

WinIDM: The portable Software Modem.

WinIDM™ Technical Notes

Protocols Supported:
- MIL-STD-188-220B/C/D Ch 1
- With XNPv2 and Intraret Relaying
- MIL-STD-2045-47001D Ch 1 S/R Basic
- MIL-STD-6017 (VMF) with VMF Intelligent Parsing (VIP™)
- AFAPD
- TACFIRE
- MTS

Windows Application:
- Can be run as a separate Windows application, or embedded into an existing application via ‘C’-style library

Uses:
- Digitally-Aided Close Air Support
- Standards-Compliant Digital Transmission Interoperability
- Situational Awareness, Tactical Internet
- JTAC, TACP
- Man-Pack communications
- Testing and Analysis

Interoperability:
- Tested at BoldQuest since 2009
- Used by JTIC for 188-220 Certification
- Fielded by US and Allied Solutions
- Standard Compliant

Related Technologies

XNPv2 CSM
Integrated into WinIDM is the XNPv2 Common Software Module (CSM). The XNPv2 CSM was funded by the US Joint Forces Command, and implemented by Aeronix, to be a common solution for providing XNPv2 capability to the Warfighter. With XNPv2 integrated into WinIDM, automated network management and address assignment is built into your 188-220 solution.

Hardware Interoperability
WinIDM is integrated and tested with a large number of hardware solutions, including:
- Aeronix Soldier IDM
- Harris USB KDU Cable
- Symetrics U-ROC and NU-ROC
- Smartronix RDA Cable
- Black Diamond MTS

NetSim™
The NetSim™ application provides a software simulation of a Combat Net Radio network. Individual instances of the WinIDM™ application can be connected to the network representing any number of platform nodes. NetSim™ allows for simulating noisy networks, configuring the range of each radio, and is extensible for modeling radio timing and automation of node behavior.

Fielded in US and Allied Solutions
WinIDM is fielded in US and Allied DACAS Solutions, including both strike platforms and JTAC Kits, and utilized by JTIC in the US and by the UK MoD for testing and certification of VMF TDLs. Platforms utilizing WinIDM include:

- F-16 (USAF)
- F-35 (Joint)
- A-10 (USAF)
- BAO-Kit (AFSOC)
- FAC-NAV (Norway)
- Gripen (Sweden)
- TCCK (Italy)
- DVMT (JTIC Test Tool)
- UK VMF Test Tool (UK)
- FAC-U (Black Diamond)

IDM Workbench™
Easily configure all IDMs including S01, Mini, U-ROC and WinIDM. Start testing your TDL now with Built In VMF Parsing!

Combat Net Radio
Ground Fires/Close Air Support

WinIDM selected for F-35

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