

# JECL<sup>®</sup>

## Joint Effects and Coordination Link



## Ensuring Digital Interoperability Across the Battlefield

Stauder Technology's **JECL<sup>®</sup>**, or **Joint Effects and Coordination Link**, is software that does a lot of heavy lifting. JECL<sup>®</sup> software can be used by virtually any application on tactical platforms to provide flexible and guaranteed digital interoperability by ensuring the right data is sent and received every time.

JECL<sup>®</sup> is a cross-platform, multi-protocol, tactical communication and peripheral management software solution that adds tested and qualified Digitally Aided Close Air Support (DACAS), Digital Fires (DAFires) and digital Situational Awareness (SA) capability to virtually any tactical application or program.

JECL<sup>®</sup> resolves many of the toughest challenges associated with tactical digital communications by focusing on easy radio and peripheral integration, and proven, scalable interoperability. It serves as a common gateway to translate and move digital data to nodes all over the battlefield, regardless of messaging protocols, waveforms, radios or type of end-user device.

### **SIMPLE. GUARANTEED.**

JECL<sup>®</sup> makes configuring and using the full complement of fielded radios and peripherals easy, and guarantees interoperability across the battlefield.

### **TESTED. PROVEN.**

JECL<sup>®</sup> has been JITC validated and has an Authority to Operate from the US Marine Corps and has a Flight Clearance from US NAVAIR.

### **INTELLIGENT. ADAPTABLE.**

JECL<sup>®</sup> software ensures that messages are created, configured, and transmitted to current DACAS aircraft to include F-35, A-10, F-16, AV-8, F/A-18, as well as surface and maritime Fires and SA with Battle Management Systems like AFATDS. JECL<sup>®</sup> is smart enough to use whatever version of the various protocols is required by the supported platform, including VMF, AFAPD, Cursor on Target (CoT), Link-16 and SADL.



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JECL<sup>®</sup> makes hardware easy by simplifying detection, configuration and use of all types of military hardware.

## PLATFORMS & NETWORKS

### Close Air Support

- AV-8B, F/A-18, F-35, F-16, A-10, B-52

### Surface and Maritime Fires

- AFATDS, TLDHS, MFCS/LHMBC, NFCS

### Protocols / Stacks

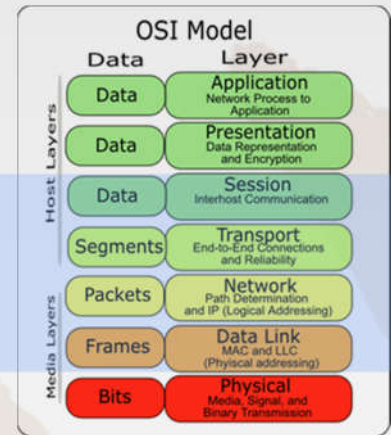
- VMF, Link-16, CoT, MTS, AFAPD, SADL
- MIL-STD-6017A/B
- MIL-STD-188/220B/C/D
- MIL-STD-2045-47001C/D
- DACAS ECP's 1- 5

### Links and Weapons

- JRE Gateway (JREAP-C / 3011)
- Network Enabled Weapons

## POWERFUL. EASY.

JECL<sup>®</sup> operates on Windows, Linux, Android and embedded Systems, all with the same code base. JECL<sup>®</sup> follows the Open Systems Information model and abstracts the physical properties of the radio device from the application software, providing easy integration into any ground or airborne platform.



## RADIOS AND PERIPHERALS

### Ground

- AN/PRC-117F
- AN/PRC-117G
- AN/PRC-152/A
- AN/PRC-119
- AN/PRC-150
- L-3 ROVER Series
- RT-1720 (EPLRS)
- RT-1922 (MicroLite)
- WaveRelay MPUs
- Trellisware Cheetas

### Airborne

- RT-1556
- RT-1747(D)
- RT-1794(C)
- RT-1824(C)
- RT-1851(C)
- RT-1851A(C)
- RT-1939(C)
- RT-1939A(C)

### Laser Rangefinders

- Viper II / IV
- Vector 21
- PLRF-15 / 25

### Video Downlinks

- L-3Com SIR 2.5
- L-3Com TacNet Rover

### GPS

- DAGR (SAASM)
- PRC-152(A) (SAASM)
- PRC-117G (SAASM)
- RSR Puck (SAASM)
- RF-310-M (Commercial)
- Commercial GPS Pucks

### Simulation

- DVTE
- GustoAir
- Stauder Sim Tools
- MACE/CAS Sim\*

JECL<sup>®</sup> integrates tactical modems from Aeronix and Raytheon, and supports all IP based radio interfaces. It ships with a robust, open Software Development Kit (SDK) enabling 3rd party developers the ability to easily auto-discover and program combat net radios, build networks, send VMF/Link16/AFAPD messages and interface and configure a host of tactical peripherals like GPS, VDL, Hubs and more.

## ADDITIONAL KEY FEATURES

### Network radio modes:

- Single-channel plain/cipher
- Single-channel SINCGARS
- IP / Wideband Waveforms – ANW2, SRW, etc
- DAMA / Non-DAMA SATCOM

**Auto Radio Recognition & Programming**  
**'Best Available GPS' Service**  
**Relative Position Service**

