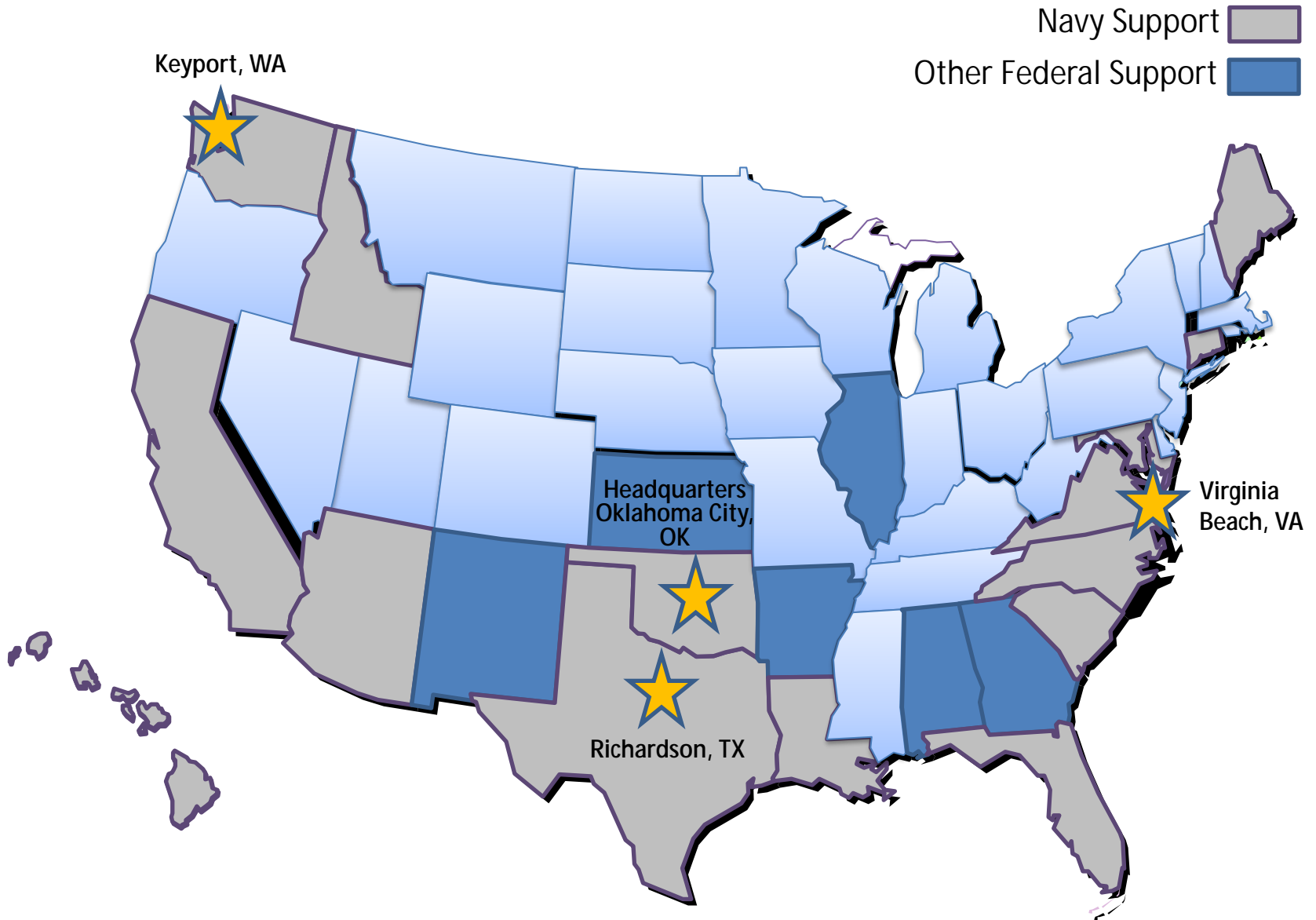




Long Wave Incorporated
Proprietary

115 E. California Ave., Suite 400 Oklahoma City, OK 73104
Office: 405 235 2217 Fax: 405 235 2250 info@longwaveinc.com

Company Office Locations



Core Competency:

- Nodes
- Networks
- Conferencing (Phone/VTC)
- Joint Messaging
- National, Joint and Service Policy

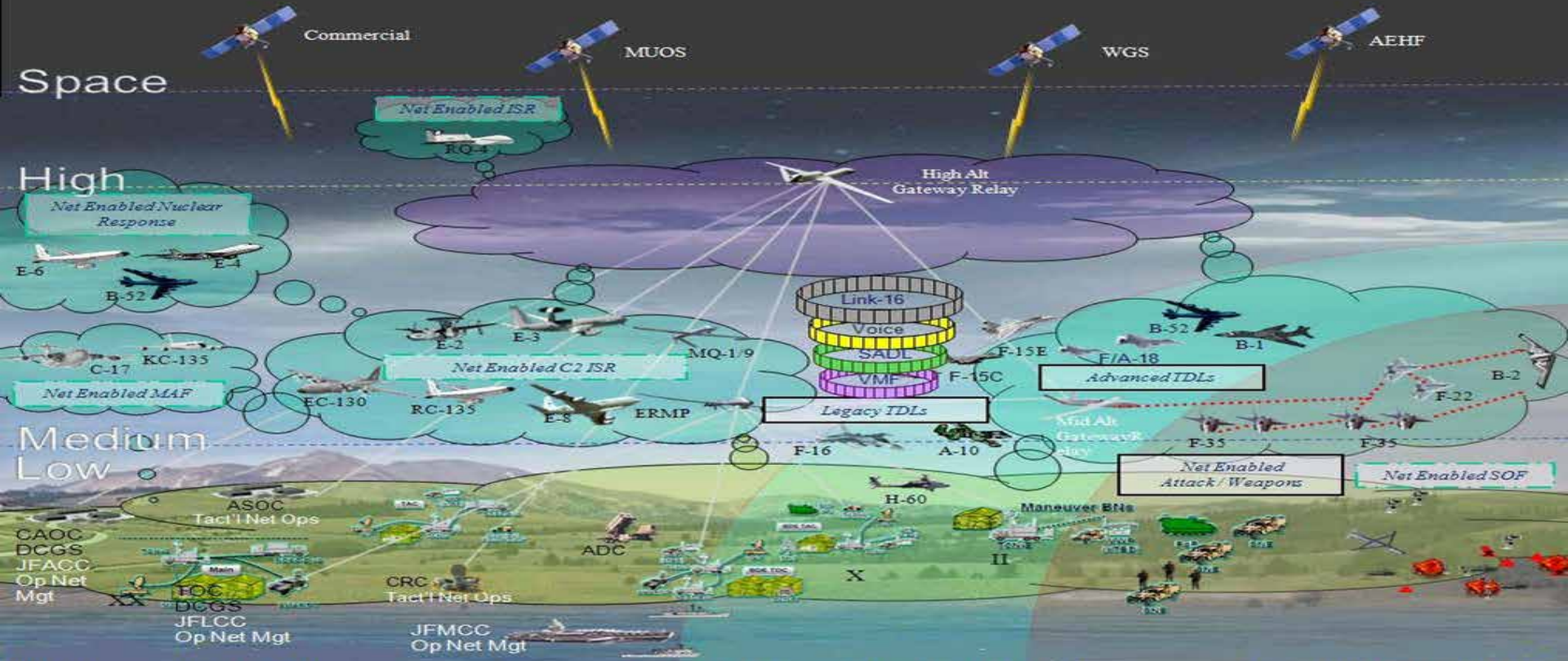
Expertise:

- Integrated Architectures and CONOPs
- Senior Leader Communications
- DC2N Battle Staff Function and Strategy
 - Ground, Airborne and Maritime
- NC3 Ops & Communications Policy
- E-6 Block I/II Architecture & Capabilities

Current Support:

- ASD NII for NLCC, SLCS and NC3 Working Groups (WG)
- Joint Staff & COCOMs:
 - Ops/Comm Policy, Crypto, SLCS, and Platforms WGs
- SCW-1 N6 & WTU Direct Support

Joint Aerial Layered Network (NC3 Future)



Courseware Development – Instructional System Design

Navy NOVA/NIXT Training

- Instructional System Design Training Development from cradle to grave
 - CW for Operator
 - Student Guides
 - Instructor Guides
- Deliver Instructor led training worldwide
 - Training team deployed to Italy for 2 week training session

E-6B Block I Formal Courseware

- Carley/LWI team requested by Government
 - Subject Matter Experts
 - VQ-7
 - Weapons Tactics Unit
 - Air Combat Training System(ACTS)
 - E-6B Master Task List
 - Mercury Air Combat Weapons & Tactics Syllabus

Crypto Mod Formal Courseware

- LWI ISD Team
 - Transition Navy's difference course into:
 - VQ-7 Formal CW
 - Weapons Tactics Unit Formal CW
- Include Update for:
 - ACTS
 - E-6B Master Task List
 - Mercury Air Combat Weapons & Tactics Syllabus

E-6B Trainers

E-6B Weapons System Trainer Mod.

- WST software update for:
 - ARC-210 Gen V update
 - KIV-7M update
 - VACM update
 - SKL update
- SME in Crypto device operation and setup
- Recreated Operating WST
- Proximity to customer
- Agility to flex



MAST Trainer Block I Stimulator

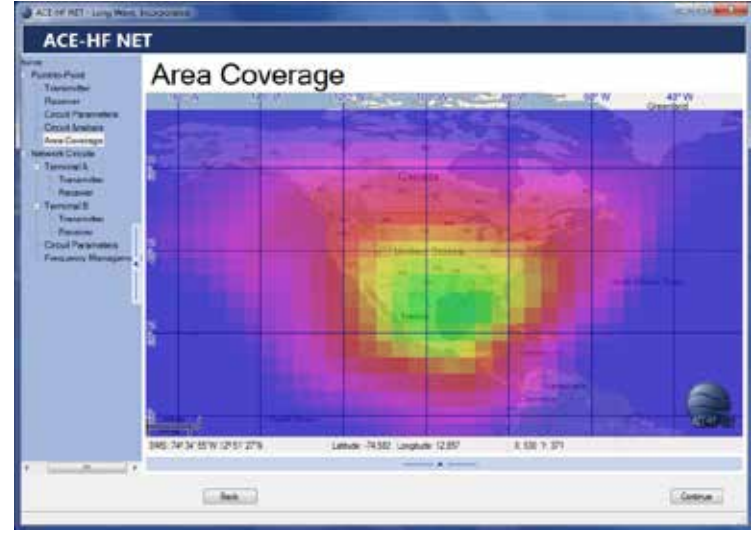
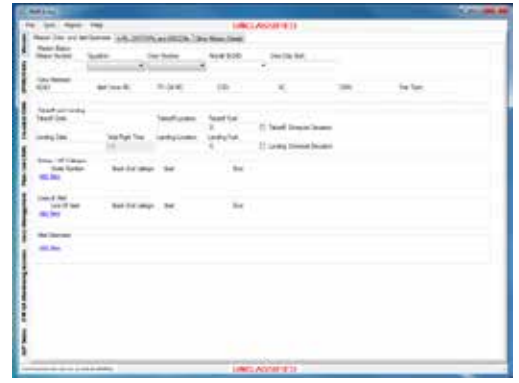
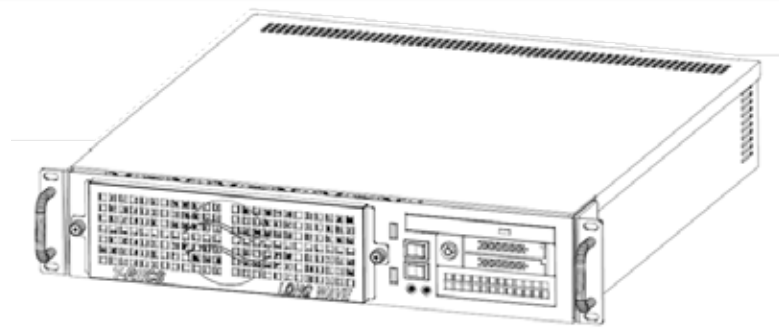
- Transition Legacy training capability into Block I
- Block I Simulator installed in MAST
 - T-RECS centric
 - NC3 scenario development
 - NC3 training Delivery
 - Only E-6B Block I training capability
- MILSTAR Simulation
- Uses A/C software for easy updates
- Testing device for SIL



- Hardware Products
 - Mobile T-RECS
 - Mobile testing and communications system in a transit case
 - Low Bandwidth/Low Latency Modems
 - EMI/RFI Noise Detection Equipment
 - Noise Abatement and Studies
 - Leveraging COTS products to meet customer requirements

- Software Products
 - T-RECS
 - NC3 Messaging
 - ACE-HF (HF Propagation Modeling)
 - ACE-VLF (VLF Propagation Modeling)
 - CMMS (Computerized Maintenance Management System)
 - RF Site configuration management and maintenance tracking system
 - C2 Portal (Fleet Command Mission Planning and Reporting)
 - Integrated database that supports operations/maintenance readiness

- Systems Engineering
 - Test Stimulators
 - Integrated hardware and software to test systems for operational readiness
 - Hardware Training Simulators
 - Using Serial Comm Protocols and MIL-STD-1553
 - Virtualized Training Simulators
 - Equipment modeling and simulation completely with software
 - NC3 Messaging Communication Systems
 - Clarinet Merlin Receive System
 - US Navy Submarine HF Broadcast receive system
 - US Navy SETR and FRCB process expertise





Equipment Core Competency / Expertise

- HF / VLF / LF Antenna:
 - Engineering
 - Installation
 - Site Preparation and Surveys
 - Depot Level Maintenance and Repair
 - Full System Inspections and Assessments
 - Grounding, Bonding, Shielding & Lighting Protection (GBSLP)



Current Efforts

- **HF Antenna Engineering and Maintenance** – Providing all the HF antenna installation and a large amount of engineering and maintenance for the AF on the APS contract and a great amount of Navy antenna work on various Navy contracts
- **O&M for various Antenna sites**
- **Navy VLF Antenna scope**
 - NAVFAC and SPAWAR VLF
- **EMI Noise Measurement - HF RFI Studies**
- **Border Protection Remote Site Installations**
- **Microwave and UHF LOS towers**
 - Commercial Cellular
 - Defense Communications

On the Horizon

- Homeland Security Programs
- FEMA
 - Mobile Antenna Operations
 - Training Development
- FAA
 - Roads, building, pad, antenna