

JITC CDL TEST CAPABILITIES

- ◆ Platform Equipment Compliance Certification
- ◆ Surface Terminal Compliance Certification
- ◆ Equipment Cross-vendor Compliance verification
- ◆ Portability—testing anywhere, anytime
- ◆ Bottom line....Support the warfighter

FAMILY OF CDL WAVEFORM SPECIFICATIONS

Original CDL Waveform

- ◆ Standard Std-CDL

New CDL Waveforms

- ◆ Advanced A-CDL
- ◆ Bandwidth Efficient BE-CDL
- ◆ Discover D-CDL
- ◆ Network N-CDL

C2 Systems Test Officer
DSN 879-3249
(520) 538-3249
FAX (520)-538-5287

CDL Web Page:
<http://jitc.fhu.disa.mil/cdl>



Defense Information Systems Agency
Department of Defense

COMMON DATA LINK (CDL)

Joint Interoperability Test Command

Attn: Visitor Support Center
P.O. Box 12798
Fort Huachuca, AZ 85670-2798

Phone: 1-800-LET-JITC
538-5482
<http://jitc.fhu.disa.mil>



Experts in Testing and Certification
Accelerating the Nation's IT Dominance



**Joint Interoperability
Test Command**

INTRODUCTION

The Common Data Link (CDL) is a family of data links that provides full duplex, jam-resistant, point-to-point, point-to-multipoint, digital microwave communications between the Intelligence, Surveillance, and Reconnaissance (ISR) collection systems operated by armed services and government agencies. CDL provides for the command, control, and communications between the ISR sensor platforms and ground station processors and air-to-air platforms. STANAG 7085 is the NATO equivalent to CDL.

TESTING

The Joint Interoperability Test Command (JITC) is the Executive Test Agent for CDL Interoperability Testing and Certification. All migration and future CDL implementations must be tested and certified. Testing determines if the CDL system, under test (software, hardware, or firmware) complies with the CDL specifications and is interoperable in accordance with Chairman of the Joint Chiefs of Staff Instruction 6212.01F. The JITC determines the functionality and the interoperability of enhancements. Testing will occur throughout the system's lifecycle and may be performed in conjunction with other testing whenever possible to conserve resources.

TEST FACILITIES

The JITC CDL Test Facility is designed to test CDL transmitters and receivers for com-

pliance to the CDL Waveform Specification. The Test Facility is equipped with four Standard CDL Test Sets and associated test equipment and is manned with experienced CDL test personnel.



The Test Facility is capable of conducting on-site Standard CDL Waveform Compliance testing. CDL vendors are charged a standard rate based on a Standard Rate Schedule.

This fee helps pay for the costs of the test, to include the maintenance and operation of the CDL Facility. This program provides:

- ◆ Greater access to the test equipment by allowing developers and program managers access to the facility.
- ◆ Better cost effectiveness by allowing service program managers and developers to share in the testing costs.
- ◆ Resources for JITC to execute its mission as the airborne reconnaissance community's independent CDL tester.
- ◆ Preparation and submission of compliance verification and interoperability certification letters to ASD Command, Control, and Communications and if the data link meets the compliance criteria, placement on a reg-

istry of CDL interoperable products accessible on the JITC web site.

- ◆ User confidence that the data link has demonstrated a specific level of compliance and interoperability with legacy CDL equipment and meets the requirements outlined in the CDL specification and the Joint Technical Architecture.

CDL VERIFICATION PROCESS

The CDL verification process is initiated at the request of a Program Manager (PM) or Vendor and is based on the CDL Waveform Specification criteria. The CDL Team coordinates the following:

- ◆ Assist PMs throughout the life cycle with system development and achieving DoD/OSD interoperability goals.
- ◆ Review requirements documents, test plans and test reports
- ◆ Coordinate test requirements and test opportunities with PMs, testers, developers, vendors, and user representatives as appropriate.
- ◆ Develop and coordinate test plans to ensure specification/standards compliance and interoperability requirements are fully integrated with CDL test events.
- ◆ Conduct specification/standards compliance and interoperability testing of CDL Migration and Legacy Systems.
- ◆ Process test data and present the data in a form consistent with JITC reporting requirements/procedures