



DEFENSE INFORMATION SYSTEMS AGENCY
JOINT INTEROPERABILITY TEST COMMAND
FORT HUACHUCA, ARIZONA 85613-7020

IN REPLY

REFER TO C2 and Combat Support Systems
Division (JTD)

Sep 26, 2001

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Joint Interoperability Test Certification of the
Joint Air Defense Systems Integrator (Joint
ADSI), Specified Interfaces, version 11.103.4

References: (a) DOD Directive 4630.5, "Compatibility,
Interoperability, and Integration of Command,
Control, Communications, and Intelligence
(C3I) Systems," November 12, 1992

(b) CJCSI 6212.01B, "Interoperability and
Supportability of National Security Systems,
and Information Technology Systems," May 8, 2000

(c) CONFIDENTIAL JITC Report, "Joint
Interoperability Test 01-04 Report (U),"
August 10, 2001

1. References (a) and (b) establish the Defense Information Systems Agency (DISA), Joint Interoperability Test Command (JITC), as the responsible organization for interoperability test certification.

2. The Joint Air Defense Systems Integrator (Joint ADSI), version 11.103.4, meets some of its interoperability requirements, and specified interfaces are certified as interoperable for joint use. However, the overall system is not certified because of untested joint interfaces. Where possible, JITC assessed the individual interface interoperability status. The results are below. In reference to the Link 16 joint interface, one problem was identified as having a critical joint network impact. However, this problem is extremely unlikely to occur as Joint ADSI is operationally employed today and is deemed a low risk to joint interoperability. This certification expires upon changes that could affect interoperability, to include changes to current operational employment, but no later than three years from the date of this memorandum.

3. JITC based this finding on interoperability testing conducted by a multiservice team from May 21 through June 8, 2001, at the

JITC Memo, C2 and Combat Support Systems Division (JTD), Joint Interoperability Test Certification of the Joint Air Defense Systems Integrator (Joint ADSI), Specified Interfaces, version 11.103.4.

JITC facility at Fort Huachuca, Arizona. The enclosed Certification Testing Summary describes the tested network and system configurations, the testing limitations, and the test results. JITC conducted JIT 01-04 in a distributed T-1 circuit laboratory network, replicating a network of Link 16 systems (Figure 2 of the enclosed Certification Testing Summary). JIT 01-04 also tested the Joint Interface Control Officer Support Tool (JST), a specialized receive-only function of the Joint ADSI, which supports joint data link connectivity management. Testing verified the JST did not negatively impact the joint Link 16 network. System interoperability should be verified before deployment in an operational environment that varies significantly from the test environment.

4. Table 1 depicts the interoperability status of Joint ADSI. The Link 16 interfaces tested used the system's implemented Link 16 messages as provided by Joint ADSI Working Group and defined in the Tactical Digital Information Link (TADIL) J Message Standard (Military Standard (MIL-STD) 6016A). The messages implemented by Joint ADSI represent a subset of all Link 16 messages that satisfy its system-unique information exchange requirements and the minimum data exchange requirements identified in MIL-STD-6016A.

Table 1. Joint ADSI Interoperability Status

INTERFACE	SYSTEM VERSION	TEST / CERT DATE	STATUS	REMARKS
ATDL-1	11.103.4		Not Tested	Future testing TBD.
FDL	11.103.4		Not Tested	Future testing TBD.
IDL	11.103.4		Not Tested	Future testing TBD.
Serial Link 11 Transmit to Joint GCCS	11.103.4	JIT 01-03 / Jul 2001	Certified	No deficiencies.
Link 11 to Serial Link 11 Forwarding to Joint GCCS	11.103.4	JIT 01-03 / Jul 2001	Certified	No deficiencies.

JITC Memo, C2 and Combat Support Systems Division (JTD),
 Joint Interoperability Test Certification of the Joint Air
 Defense Systems Integrator (Joint ADSI), Specified Interfaces,
 version 11.103.4.

Table 1. Joint ADSI Interoperability Status (continued)

INTERFACE	SYSTEM VERSION	TEST / CERT DATE	STATUS	REMARKS
Link 11	11.103.4	JIT 01-03 / Jul 2001	Certified	Some deficiencies with moderate operational impact.
Link 11B	11.103.4	JIT 01-03 / Jul 2001	Certified	Some deficiencies with moderate operational impact.
Link 11/11B Forwarding	11.103.4	JIT 01-03 / Jul 2001	Certified	One deficiency with critical operational impact.
Link 11/16 Forwarding	11.103.4		Not Tested	Future testing TBD.
Link 16	11.103.4	JIT 01-04 / Aug 2001	Certified	Some deficiencies with critical or moderate operational impact. Further discussions are in reference (c).
Serial Link 16	11.103.4		Not Tested	Future testing TBD.
Satellite TADIL J	11.103.4		Not Tested	Future testing TBD.
NATO Link 1	11.103.4		Not Tested	Future testing TBD.
OTH-GOLD	11.103.4		Not Tested	Future testing TBD.
TIBS	11.103.4		Not Tested	Future testing TBD.
USMTF	11.103.4		Not Tested	Future testing TBD.
PREVIOUSLY CERTIFIED INTERFACES				
Link 11/11B Forwarding	10.8.3	JIT 98-10 / Jun 1999	CERTIFIED	Some deficiencies with critical or moderate operational impact.
Link 11/11B Forwarding	10.8.2.4	OMT-JT-98-03 / Feb 1999	CERTIFIED	Some deficiencies with critical or moderate operational impact.

Legend:

ATDL-1 Army Tactical Data Link 1
 FDL Forward Area Air Defense (FAAD) Data Link
 IDL International Data Link
 JST Joint Interface Control Officer Support Tool
 NATO North Atlantic Treaty Organization
 OTH-GOLD Over the Horizon - GOLD
 TADIL Tactical Digital Information Link
 TBD To Be Determined
 TIBS Tactical Information Broadcast System
 USMTF United States Message Text Formatting

JITC Memo, C2 and Combat Support Systems Division (JTD), Joint Interoperability Test Certification of the Joint Air Defense Systems Integrator (Joint ADSI), Specified Interfaces, version 11.103.4.

5. JITC disseminates certification testing information to the Department of Defense (DoD) community via the Joint Interoperability Tool (JIT), which resides on the Secret Internet Protocol Router Network (SIPRNET) at <http://199.208.204.125/> or at <http://198.17.54.202/> (mirror site), and on the Unclassified but Sensitive Internet Protocol Router Network (NIPRNET) at <http://jit.fhu.disa.mil/>. A copy of this certification memorandum and the Certification Testing Summary is available on the JIT. The preceding homepage contains instructions for obtaining access to JIT information.

6. The JITC point of contact is Mr. Michael Molidor, DSN 879-5167 or commercial (520) 538-5167. His e-mail address is molidorm@fhu.disa.mil.

FOR THE COMMANDER:

1 Enclosure a/s

STEVE E. BRIDGES
Chief
C2 and Combat Support
Systems Division

Distribution:

Joint Staff J6I, Joint Chief of Staff, Room-1E833,
Pentagon, Washington, DC 20318-6000
Joint Interoperability Test Command, Indian Head Division,
NSWC, ATTN: JTCA-IPTP, Building 900, 101 Strauss Avenue,
Indian Head, MD 20640-5035
Defense Information Systems Agency, Joint Interoperability
Engineering Organization, ATTN: Code JECO, 5600
Columbia Pike, Suite 240, Falls Church, VA 22041
Chief Naval Operations/N6, Department of the Navy/N62/CTCS,
2000 Navy Pentagon, Washington, DC 20350
Headquarters, US Air Force Communications Information
Center/ITA, 1250 Air Force Pentagon, Washington, DC
20330-1250
Department of the Army, Office of the Secretary of the
Army, Office Symbol SAIS-IAA, 107 Army Pentagon DISC4,
Washington, DC 20310
United States Marine Corps, MARCORSYSCMD, C4I Directorate,
Suite 315, 2033 Barnett, Quantico, VA 22134-5010

JITC Memo, C2 and Combat Support Systems Division (JTD),
Joint Interoperability Test Certification of the Joint Air
Defense Systems Integrator (Joint ADSI), Specified Interfaces,
version 11.103.4.

Defense Intelligence Agency/DS-MB1, Building 6000, Bolling
AFB, Washington, DC 20340-3342

Office of Secretary of Defense, Director of Operational
Test and Evaluation, Room-3D1067, 1700 Defense Pentagon,
Washington, DC 20301-1700

Office of Secretary of Defense, Director of Operational
Test and Evaluation, Room-3A1073, 1700 Defense Pentagon,
Washington, DC 20301-1700

Office of Assistant Secretary of Defense, C3I/I3
Directorate, Crystal Mall 3, 7th Floor, 1931 Jefferson
Davis Highway, Arlington, VA 22202

Deputy Director for I/O Testing, Office of Under
Secretary of Defense, AT&L Interoperability, Room 3C261,
Pentagon, Washington, DC 20301

United States Joint Forces Command, J6I, C4 Plans and
Policy, 1562 Mitscher Ave, Norfolk, VA 23551-2488

United States Coast Guard, COMDT/G-SCE (C4), 2100 2nd
Street SW, Washington, DC 20593

JS-J38, JCS, Pentagon, Washington, DC 20318

Commander, US Army Communications-Electronics Command,
ATTN: AMSE-RD-OP-AI, Bldg 1209, Rm 330, Fort Monmouth, NJ
07703-52071

Commanding Officer, Navy Center for Tactical Systems
Interoperability, 53690 Tomahawk Dr., Ste A-125,
San Diego, CA 92147-5082

Commanding Officer, AC21SRC/A-64 (B3H), 130 Andrews St,
Ste 216, Langley AFB, VA 23665-0340

Commanding Officer, Marine Corps Tactical Systems Support
Activity, ATTN: AD-05B, Bldg. 31337, Box 555171,
Camp Pendleton, CA 92055-5171

690th Computer Systems Squadron, ATTN: ENTT, 102 Hall Blvd,
Ste 134, San Antonio, TX 78243

Air and Missile Defense Command and Control Systems Product
Manager, 4920 University Square, Huntsville, AL 35816