



DEFENSE INFORMATION SYSTEMS AGENCY
JOINT INTEROPERABILITY TEST COMMAND
WASHINGTON OPERATIONS DIVISION
NAVAL SURFACE WARFARE CENTER
101 STRAUSS AVENUE, BUILDING 900
INDIAN HEAD, MARYLAND 20640-5035

IN REPLY
REFER TO:

JITC Washington Operations
Division (JTC)

Ser JTCB/073
09 July 2003

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Joint Interoperability Test Certification of
Defense Collaboration Tool Suite (DCTS)
Enhancement, InfoWorkSpace Version 2.5.1

References: (a) Department of Defense Directive 4630.5,
"Interoperability and Supportability of
Information Technology (IT) and National
Security Systems (NSS)," 11 January 2002

(b) Chairman of the Joint Chiefs of Staff
Instruction 6212.01B, "Interoperability and
Supportability of National Security Systems,
and Information Technology Systems,"
8 May 2000

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 Defense Collaboration Tool Suite (DCTS) Enhancement, InfoWorkSpace (IWS) Version (V) 2.5.1, with the add on applications, NetMeeting client, Envoke client or Envoke portal, and the presence and awareness bridge software, satisfies all collaboration interoperability requirements as a collaboration enhancement to the DCTS and is certified for joint use. A collaboration enhancement is defined as "a tool or a collection of tools bundled as a product that fulfills one or more, but not all, of the requirements, but has one or more enhanced functions not based on the reference standards profile. An enhancement may not be able to demonstrate full interoperability with the equivalent reference standard for its enhanced capability, but it will demonstrate a method of interoperability with the appropriate service(s) and it will pass all of the required criteria identified in the enhancement certification criteria

matrix." Overall system-level interoperability problems may have minor operational impacts. JITC based this interoperability status on the extent IWS V2.5.1, met the Joint Staff (JS), Office of Secretary of Defense (OSD), Collaboration Tiger Team (CTT), Collaboration Interoperability Working Group (CIWG), and Joint Forces Command (JFCOM) Department of Defense (DOD) collaboration interoperability requirements defined in the DOD Collaboration Interoperability Test Procedures V8.6. This certification expires upon changes that could affect interoperability, but no later than three years from the date of this memorandum.

3. JITC performed an interoperability evaluation and collected interoperability data during IWS V2.5.1 testing at the JITC DCTS test bed, Washington Operations Division, Indian Head, Maryland, from 5 May through 6 June 2003. Testing was conducted in a laboratory environment using DCTS V2.0 Phase 1; no operational environment testing was performed by JITC. The Certification Testing Summary (Enclosure 1) documents test results and describes the test network and system configuration. System interoperability should be verified prior to each deployment to any operational environment.

4. Table 1 shows the IWS interoperability status in regard to the collaboration interoperability requirements. JITC evaluated all applicable requirements during this test effort (see Enclosure 1 for results).

Table 1. InfoWorkSpace Version 2.5.1 Interoperability Matrix.

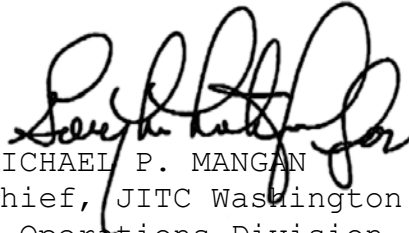
Criterion		Description	Pass	Passed Using
1	Coexistence	Candidate shall coexist with DCTS environment	Yes	InfoWorkSpace
2	Collaborator Status	Locate any collaborator	Yes	InfoWorkSpace Bridge* and Envoke Client Application
3	Conference Discovery	Locate any ITU compliant conference (e.g., meeting) on any server	Yes	InfoWorkSpace Bridge* and Envoke Client Application
4	Virtual Space Discovery	Locate any persistent space (e.g., room) on any server	Yes	InfoWorkSpace Bridge* and Envoke Client Application
5	Text Conference	Text chat with any person	Yes	Envoke Client Application, NetMeeting
6	Virtual Space Access	Launch an application with default data to enter any "accessible" persistent space (e.g., room) on any server	Yes	InfoWorkSpace Bridge*, Envoke Client Application, and Digital Dashboard
7	Conference Join	Launch an application with default data to join any "accessible" conference (e.g., meeting) on any server	Yes	Digital Dashboard, NetMeeting
8	Application Sharing	Demonstrate ability to share applications	Yes	NetMeeting
9	Whiteboard	Demonstrate ability to annotate still images	Yes	NetMeeting
10	Audio	Demonstrate ability to share audio	Yes	NetMeeting
11	Video	Demonstrate ability to share video	Yes	NetMeeting
12	File Transfer	Import/export documents between meetings and rooms	Yes	NetMeeting
13	Authentication, Encryption, Lockdown	Provide appropriate security mechanisms (e.g., to get permission to connect to DOD networks) and not interfere with other collaboration components	Yes	InfoWorkSpace
14	Usability	Product shall not substantially degrade collaboration Usability, stability, or performance	Yes	InfoWorkSpace
15	Directory Services	Gain access to "public restricted" collaboration resources through global directory services on participating networks	Not Applicable	Future
LEGEND:				
DCTS	Defense Collaboration Tool Suite	e.g.	For Example (exempli gratia, Latin)	
DOD	Department of Defense	ITU	International Telecommunications Union	
* InfoWorkSpace developed a bridge between their product and the Envoke application to allow publishing of presence and awareness of InfoWorkSpace users and virtual spaces				

5. JITC disseminates interoperability information via the JITC Electronic Report Distribution (ERD) system; the ERD uses the Unclassified-but-Sensitive Internet Protocol Router Network (NIPRNET) e-mail. More comprehensive interoperability status information is available via the JITC System Tracking Program (STP). The STP is accessible by .mil/.gov users on the NIPRNET at: <https://stp.fhu.disa.mil/>. Test reports, lessons learned, and related testing documents and references are on the JITC Joint Interoperability Tool (JIT). JIT resides on the Secret Internet Protocol Router Network (SIPRNET) at <http://199.208.204.125> and at <http://198.17.54.202> (mirror site). It also resides on the NIPRNET at <http://jit.fhu.disa.mil/>. A copy of this certification memorandum and certification testing summary will be available

on the JIT. The instructions for obtaining access to JIT information are on the above web pages.

6. The testing agency point of contact is Mr. John N. Socher, JITC Washington Operations Division, DSN 354-2663 or commercial (301) 744-2663. His e-mail address is socherj@ncr.disa.mil.

FOR THE COMMANDER:



MICHAEL P. MANGAN
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1 Enclosure a/s

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JITC Memo, JITC Washington Operations Division (JTC), Joint
Collaboration Interoperability Test Certification of
InfoWorkSpace Version 2.5.1

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CERTIFICATION-TESTING SUMMARY

1. **SYSTEM TITLE.** Defense Collaboration Tool Suite (DCTS) Enhancement, InfoWorkSpace (IWS), Version 2.5.1
2. **PROPONENT.** ezenia!
3. **POINT OF CONTACT.** Mr. Nunzio Napoleone, Director, Engineering & Program Management, ezenia!, Burlington, Massachusetts, (781) 505-2421 office, (781) 505-2305 Fax, E-mail nnapoleone@ezenia.com
4. **TESTER.** Joint Interoperability Test Command (JITC), Indian Head, Maryland
5. **SYSTEM UNDER TEST DESCRIPTION.** IWS is a desktop collaboration software package, designed for groups that work in multiple locations. It is intended to enhance the way groups and individuals work in day-to-day operations. This package allows an organization to reconstruct their dispersed environment into a virtual model and operate in that model allowing the separated locations to work as if they were co-located. Using IWS, you create secure interactive shared spaces in the virtual model where you can bring together the information, people and tools you need to get your work done. Shared spaces sit on each participant's personal computer. Work done in the space by one member is instantly seen by all members. Users can work in the space together, or work offline, returning to the space over time. IWS keeps all members' personal computers (PC) updated with the latest changes. To meet the needs of the members in the shared space, various tools are available including the following:
 - Calendar
 - File Cabinet
 - Video Telephone Conference (VTC)
 - Text tool
 - Bulletin Board
 - Voting tool
 - Chat rooms
 - Briefcase
 - Whiteboard
 - Broadcast audio
 - Shared view
 - Conference center
6. **OPERATIONAL ARCHITECTURE.** Figure 1-1 shows the DCTS/InfoWorkSpace operational architecture.

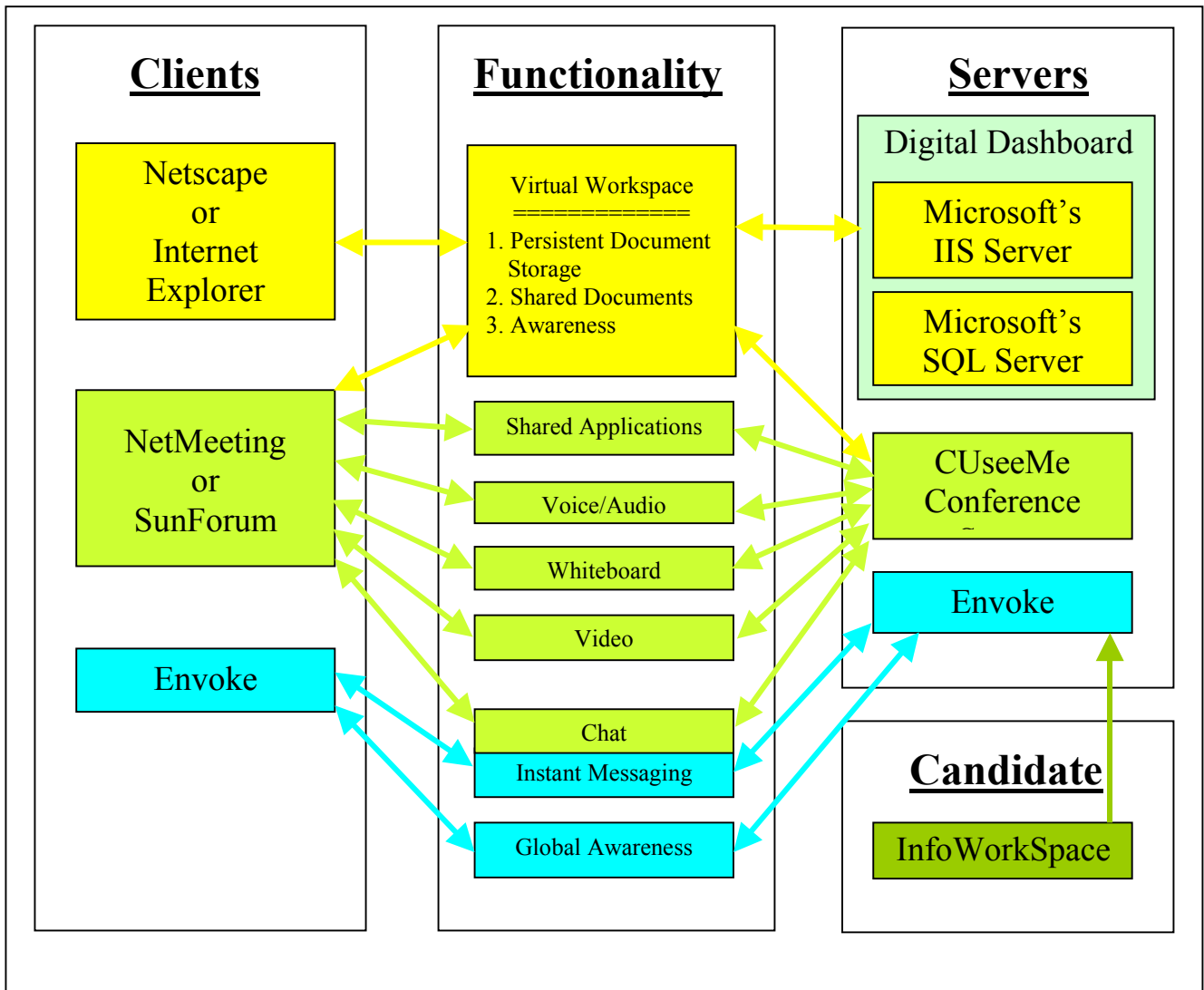


Figure 1-1. DCTS/InfoWorkSpace Operational Architecture.

7. REQUIRED SYSTEM INTERFACES. The Joint Staff (JS), Office of Secretary of Defense (OSD), Collaboration Tiger Team (CTT), Collaboration Interoperability Working Group (CIWG), and Joint Forces Command (JFCOM) are responsible for the creation and maintenance of the DOD collaboration tools interoperability requirements. Table 1-1, *InfoWorkSpace Interoperability Matrix*, identifies the requirements relative to the IWS interfaces.

Table 1-1. InfoWorkSpace Interoperability Matrix.

Criterion		Description	Pass	Passed Using
1	Coexistence	Candidate shall coexist with DCTS environment	Yes	InfoWorkSpace
2	Collaborator Status	Locate any collaborator	Yes	InfoWorkSpace Bridge* and Envoke Client Application
3	Conference Discovery	Locate any ITU compliant conference (e.g., meeting) on any server	Yes	InfoWorkSpace Bridge* and Envoke Client Application
4	Virtual Space Discovery	Locate any persistent space (e.g., room) on any server	Yes	InfoWorkSpace Bridge* and Envoke Client Application
5	Text Conference	Text chat with any person	Yes	Envoke Client Application, NetMeeting
6	Virtual Space Access	Launch an application with default data to enter any "accessible" persistent space (e.g., room) on any server	Yes	InfoWorkSpace Bridge*, Envoke Client Application and Digital Dashboard
7	Conference Join	Launch an application with default data to join any "accessible" conference (e.g., meeting) on any server	Yes	Digital Dashboard, NetMeeting
8	Application Sharing	Demonstrate ability to share applications	Yes	NetMeeting
9	Whiteboard	Demonstrate ability to annotate still images	Yes	NetMeeting
10	Audio	Demonstrate ability to share audio	Yes	NetMeeting
11	Video	Demonstrate ability to share video	Yes	NetMeeting
12	File Transfer	Import/export documents between meetings and rooms	Yes	NetMeeting
13	Authentication, Encryption, Lockdown	Provide appropriate security mechanisms (e.g., to get permission to connect to DOD networks) and not interfere with other collaboration components	Yes	InfoWorkSpace
14	Usability	Product shall not substantially degrade collaboration Usability, stability, or performance	Yes	InfoWorkSpace
15	Directory Services	<i>Gain access to "public restricted" collaboration resources through global directory services on participating networks</i>	<i>Not Applicable</i>	<i>Future</i>
LEGEND:				
DCTS	Defense Collaboration Tool Suite	e.g.	For Example (exempli gratia, Latin)	
DOD	Department of Defense	ITU	International Telecommunications Union	
* InfoWorkSpace developed a bridge between their product and the Envoke application to allow publishing of presence and awareness of InfoWorkSpace users and virtual spaces				

8. TEST NETWORK DESCRIPTION. The test network in figure 1-2, *InfoWorkSpace Test Configuration*, depicts the network utilized during the IWS interoperability test. JITC performed an interoperability evaluation and collected interoperability data during IWS, Version 2.5.1, testing at the JITC DCTS test bed, Washington Operations Division, Indian Head, Maryland, from 5 May through 6 June 2003.

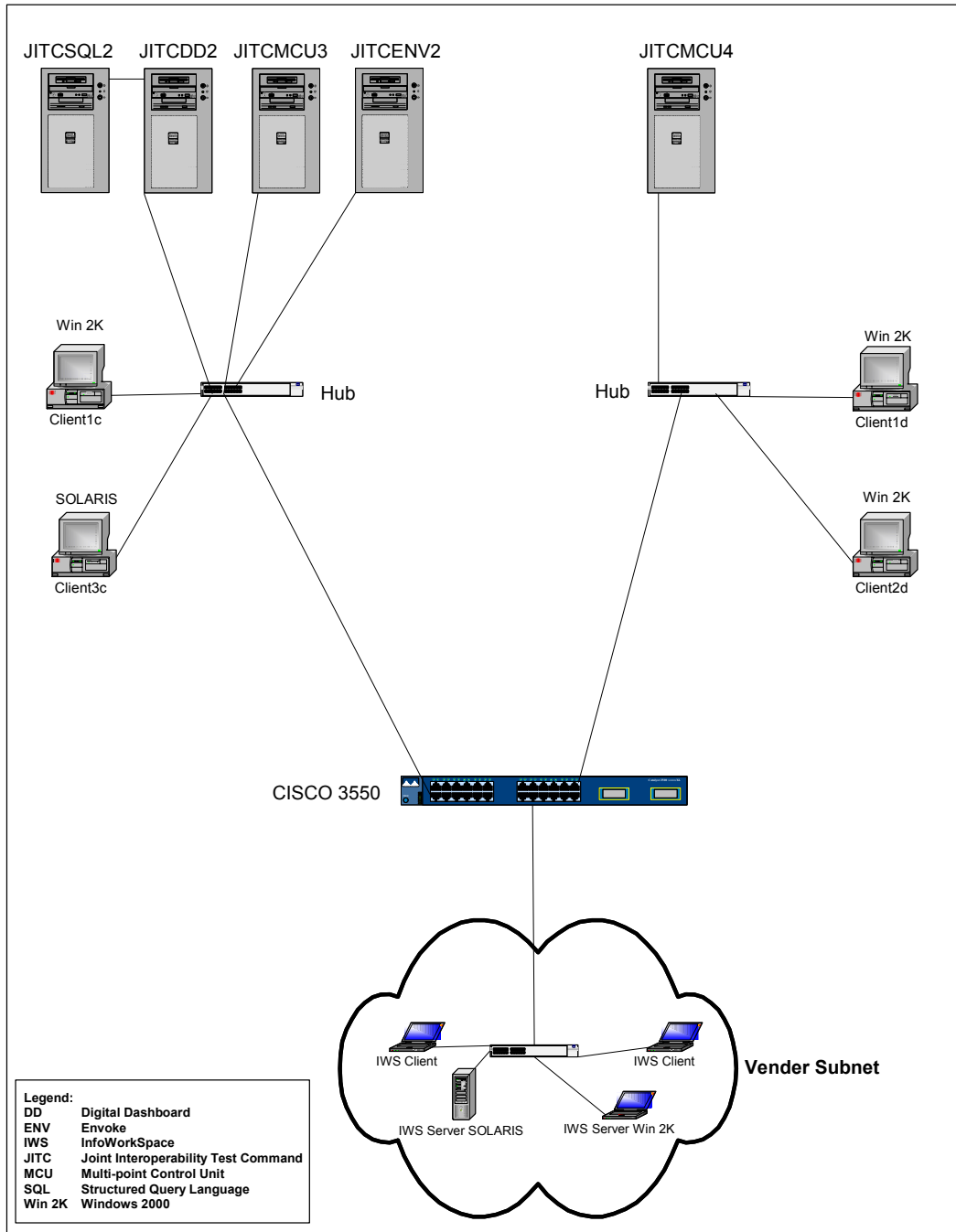


Figure 1-2. InfoWorkSpace Test Configuration.

9. SYSTEM CONFIGURATION. The hardware configuration and installed operating systems for all systems (server and client) used during the interoperability test are documented in table 1-2. The installed applications on all systems (server and client) used during the interoperability test are documented in table 1-3.

Table 1-2. Hardware Configuration and Operating Systems.

InfoWorkSpace Systems			
student1 (client) <ul style="list-style-type: none"> • Dell Latitude • Pentium III – 600MHz • 260MB RAM • 9GB HD • Win 2000 V5.00 2195 SP3 		Demo3 (client) <ul style="list-style-type: none"> • Dell Inspiron 2600 • Celeron 1.6GHz • 260MB RAM • 4GB HD • Win 2000 V5.00 2195 SP3 	
iws4demo (server) <ul style="list-style-type: none"> • Dell Inspiron 2600 • Celeron 1.6GHz • 260MB RAM • 5GB HD • 13GB HD • Win 2000 V5.00.2195 SP3 		iws4test (server) <ul style="list-style-type: none"> • SUN Ultra 60 • Dual 360 MHz UltraSparc II • 512MB RAM • Dual 9GB HD • Solaris V8 	
DCTS Servers			
Jitcsqj2 <ul style="list-style-type: none"> • DELL Power Edge 1650 • Pentium III Dual 1400MHz • 1GB RAM • RAID 1 Dual 18GB HD • Windows 2000 V5.00.2195 SP3 	Jitcdd2 <ul style="list-style-type: none"> • DELL Power Edge 1650 • Pentium III Dual 1400MHz • 1GB RAM • RAID 1 Dual 18GB HD • Windows 2000 V5.00.2195 SP3 	Jitcmcu3 <ul style="list-style-type: none"> • DELL Power Edge 1650 • Pentium III Dual 1400MHz • 1GB RAM • RAID 1 Dual 18GB HD • Windows 2000 V5.00.2195 SP3 	
Jitcmcu4 <ul style="list-style-type: none"> • DELL Power Edge 1650 • Pentium III Dual 1400MHz • 1GB RAM • RAID 1 Dual 18GB HD • Windows 2000 V5.00.2195 SP3 		Jitcenv2 <ul style="list-style-type: none"> • DELL Power Edge 1650 • Pentium III Dual 1400MHz • 1GB RAM • RAID 1 Dual 18GB HD • Windows 2000 V5.00.2195 SP3 	
DCTS Clients			
Client_1c <ul style="list-style-type: none"> • Gateway E-4200 • Pentium III – 500MHz • 128MB RAM • 2GB HD • 17GB HD • Windows 2000 V5.00 2195 SP3 		Client_1d <ul style="list-style-type: none"> • Gateway E-4200 • Pentium III – 500MHz • 128MB RAM • 2GB HD • 17GB HD • Win 2000 5.00 2195 SP3 • Windows 2000 V5.00 2195 SP3 	
Client_2d <ul style="list-style-type: none"> • Gateway E-4200 • Pentium III – 500MHz • 128MB RAM • 2GB HD • 17GB HD • Windows 2000 V5.00 2195 SP3 		Client_3c <ul style="list-style-type: none"> • SUN Blade 1000 • Pentium III • 1024 MB RAM • 6GB HD • Solaris V8 	
Legend			
DCTS	Defense Collaboration Tool Suite	MHz	Megahertz
DD	Digital Dashboard	MCU	Multi-point Conferencing Unit
ENV	Envolve	RAID	Redundant Arrays of Independent Drives
GB	Gigabyte	RAM	Random Access Memory
HD	Hard Drive	SP	Service Pack
IWS	InfoWorkSpace	SQL	Software Query Language
JITC	Joint Interoperability Test Command	V	Version
MB	Megabyte		

Table 1-3. Installed Applications.

InfoWorkspace Systems		
<p>student1 (client)</p> <ul style="list-style-type: none"> • InfoWorkspace V2.5a Build 1735 • NetmeetingV3.01 • Envoke V1.1.4 • IE V6.0 • Windows 2000 Hotfix • Windows Media Player V7.1 • WinZip V8.1 • Adobe Acrobat V5.0 • Duplicate Email Remover • InfoWorkspace V2.5.1.2 • InfoWorkspace V2.5.1.2 Browser Plugin • Intel USB Video Camera III • Java 2 Runtime Environment Standard Edition V1.3.1_07 • McAfee VirusScan V4.5.0 • MGI PhotoSuite V8.1 • Microsoft Internet Explorer 6 SP1 • Microsoft Office 2000 SR-1 Professional V9.00.9327 • Microsoft Windows Journal Viewer V1.5.2315.0 • PlaceWare Add-in for PowerPoint V7 • PlaceWare Media Plug-In PWS:CC+PDK-4.0.2-1#i6q2y6 • PlaceWare Plug-Ins 4.02, V2.5.1 • PlaceWare Snapshot Plug-In PWS:CC+PDK-4.0.2-1#i6q2y6 • QuickTime • RealPlayer G2 • Shockwave 	<p>Demo3 (client)</p> <ul style="list-style-type: none"> • InfoWorkspace V2.5a Build 1735 • Netmeeting V3.01 • Envoke V1.1.4 • IE V5.01 • InfoWorkspace V2.5.1.2 • Intel USB Video Camera III • Intel Extreme Graphics Driver Software • Java 2 Runtime Environment Standard Edition • Netscape Communicator V4.73 • PlaceWare Add-in for PowerPoint V7 • PlaceWare Media Plug-In PWS:CC+PDK-4.0.2-1#i6q2y6 • PlaceWare Snapshot Plug-In PWS:CC+PDK-4.0.2-1#i6q2y6 • RealPlayer G2 • SigmaTel AC97 Audio Drivers • UltraEdit-32 Uninstall 	
<p>lws4demo (server)</p> <ul style="list-style-type: none"> • AsPerl • IE V5.0 • InfoWorkspace V2.5.1.2 Browser Plugin • Intel Extreme Graphics Driver Software • iPlanet Server Products V5.0 • iPlanet Web Server V6.0 • IWS2511 V2.5.1.1 • IWS2512 V2.5.1.2 • IWSb2511304 InfoWorkspace patch • IWSsp251 Service Pack 1 • Java 2 Runtime Environment Standard Edition • PlaceWare Server on port 8087 • UltraEdit-32 Uninstall • Windows 2000 Service Pack 2 	<p>lws4test (server)</p> <ul style="list-style-type: none"> • MS SQL Server 2000 V8.00.194 • InfoWorkspace Management Server V2.1.1549 • InfoWorkspace Management Server Supporting Libraries V1.00 • IE V5.0 • IWS2512153 patches 	
DCTS Servers		
<p>Jitcsql2</p> <ul style="list-style-type: none"> • Microsoft SQL 2000 Sever SP2 	<p>Jitcdd2</p> <ul style="list-style-type: none"> • Infomentum Active File • IP*Works (ASP Edition) • ASPSmartSecurity 	<p>Jitcmcu3</p> <ul style="list-style-type: none"> • CUSeeMe Conference Server (50 user)
<p>Jitcmcu4</p> <ul style="list-style-type: none"> • CUSeeMe Conference Server (25 user) 	<p>Jitcenv2</p> <ul style="list-style-type: none"> • Envoke V1.1.4 	

Table 1-3. Installed Applications (continued).

DCTS Clients			
Client_1c		Client_1d	
<ul style="list-style-type: none"> • NetMeeting V3.01 • IE V6.0 • Winnov Videum NT V2.10 • Java 2 Runtime V1.3.1_06 • MS Office 2000 Pro V9.0.4402 SR-1 		<ul style="list-style-type: none"> • NetMeetingV3.01 • IE V6.0 • Winnov Videum NT V2.10 • Java 2 Runtime V1.3.1_06 	
Client_2d		Client_3c	
<ul style="list-style-type: none"> • NetMeeting V3.01 • IE V6.0 • Winnov Videum NT V2.10 • Java 2 Runtime V1.3.1_06 • InfoWorkSpace V2.5.1 		<ul style="list-style-type: none"> • SunForum V3.2.6502.7 • Netscape V4.76 • InfoWorkSpace V2.5.1 	
Legend			
DCTS	Defense Collaboration Tool Suite	MCU	Multi-point Conferencing Unit
DD	Digital Dashboard	MS	Microsoft
ENV	Envolve	NT	New Technology
IE	Internet Explorer	SP	Service Pack
IWS	InfoWorkSpace	SQL	Structured Query Language
JITC	Joint Interoperability Test Command	V	Version

10. TEST LIMITATIONS. JITC has not assessed IWS in an operational environment. All testing occurred in a laboratory environment over the DCTS Local Area Network utilizing three subnets. The network is detailed in figure 1-2. If an operational environment varies significantly from the test environment, system interoperability should be verified prior to deployment.

The test environment contained two workstations configured with cameras and headsets. This test did not address audio and video collaboration of more than two simultaneous participants.

Criterion 14, Usability, Stability, and Performance could not be completely tested. The current configuration of DCTS does not simulate 100 DCTS and IWS users.

11. EVALUATION RESULTS

a. Interoperability Results. Table 1-1 shows the IWS interoperability status for the defined criteria. The IWS, V2.5.1, met all the requirements via their application or a DCTS reference client. IWS relied upon the DCTS reference client to pass a portion of the defined criteria. Therefore, it is highly recommended that the DCTS client software be available to IWS clients to ensure successful interoperability with DCTS users.

b. System Results. IWS, V2.5.1, demonstrated that it satisfies interoperability requirements as collaboration enhancement. Executing the IWS software on a system that was concurrently running DCTS (coexisting) did not cause any execution errors on either program. The overall expected operational impact of the discrepancies was assessed as being minor.

12. TEST AND ANALYSIS REPORT. The JITC report, "InfoWorkSpace Version 2.5.1 Interoperability Evaluation Report," June 2003, documents the detailed test results.

A copy of the evaluation report and certification memorandum will be available on the Joint Interoperability Tool (JIT). JITC disseminates certification testing information to the Department of Defense community via the JIT. The JIT resides on the Secret Internet Protocol Router Network (SIPRNET) at <http://199.208.204.125> and at <http://198.17.54.202> (mirror site). It also resides on the Unclassified, but Sensitive, Internet Protocol Router Network (NIPRNET) at <http://jit.fhu.disa.mil/>. The instructions for obtaining access to JIT information are on the above web pages.