

USER'S LOGISTICS SUPPORT SUMMARY

DATA NETWORK, SERVER

NSN: 5895-01-467-6942 V(1)

NSN: 5895-01-474-0355 V(2)



MARINE CORPS SYSTEMS COMMAND
QUANTICO, VA 22134-5010

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DEPARTMENT OF THE NAVY
Headquarters, U.S. Marine Corps
Washington, DC 20380-0001

June 2001

1. This User's Logistics Support Summary (ULSS), authenticated for Marine Corps use and effective upon receipt, advises the Fleet Marine Force and other selected commands of the plan to field and logistically support the Data Network, Server, AN/TSQ-XXX V(1) and V(2), 5895-01-467-6942.
2. Submit notice of discrepancies or suggested changes to this ULSS to: Commander, MARCORSYSCOM, Attn: Program Manager (C4ISRCOMM), 2033 Barnett Avenue, Suite 315, Quantico, Virginia 22134-5010. In addition, forward an information copy to Program Support Logistics (PSL) at the same address.
3. This ULSS supercedes LAP 22-94 of 26 April 1999.
4. This ULSS is applicable to the Marine Corps Reserve.

BY DIRECTION OF THE COMMANDER, MARINE CORPS SYSTEMS COMMAND

OFFICIAL:

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1. Introduction. The Tactical Data Network (TDN) will augment the existing Marine Air-Ground Task Force (MAGTF) tactical communications infrastructure to provide the MAGTF Commander an integrated data network. This data network will support MAGTF Tactical Data Systems (TDSs) and the Defense Message System (DMS) by providing a network of communication nodes (gateways and servers) interconnected with one another and their subscribers via a combination of common user longhaul transmission systems, local area networks (LANs), the Enhanced Position Location Reporting System (EPLRS), and switching telephone systems. This system will provide its subscribers with basic data transfer and switching services; access to strategic, supporting base, joint, and other service component data networks; network management capabilities; and value-added services, such as message handling, directory services, file sharing, and terminal emulation support. In addition, the TDN system will provide Marine Corps tactical users the infrastructure to support the transition from the Automated Digital Network (AUTODIN) to the mandated replacement system, DMS.

TDN Servers will be deployed at the Marine Expeditionary Force (MEF), Major Subordinate Command (MSC), and units down to the Battalion/Squadron level. It will provide access to other TDN Servers, the TDN Gateway, and will act as a gateway to other service networks, when required.

a. Source of Requirement. United States Marine Corps (USMC) Operational Requirements Document (ORD) dated 1 Aug 1995, change 1, dated 13 Jan 1997, change 2, dated 10 Feb 1997, change 3, dated 3 Jul 1997, change 4, dated 12 Aug 1997, change 5, dated 23 Apr 1998, and change 6, 2 Jun 2000, describes the operational requirement for a material solution to augment the existing communications infrastructure to provide the commander with an integrated, standardized, and interoperable data network, forming the communications backbone for the MAGTF's TDS.

b. Points of Contact

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c. System Description. The TDN system is comprised of two configurations: the TDN Gateway and TDN Server. TDN Servers will provide the capability to share files, perform electronic message handling, and provide transparent routing of digital messages between the LAN, circuit switch, and EPLRS subnetworks. The TDN Server router network components at the server nodes will be divided into three physically distinct networks: the Non-Secure Internet Protocol Router Network (NIPRNET) will process Sensitive-but-Unclassified (SBU) data; the Secure Internet Protocol Router Network (SIPRNET) will process classified, Secret and below, General Service (GENSER) data; and the TOP SECRET (TS) network will process TS, less Sensitive Compartmented Information (SCI). The TDN Server is contained in up to four transit cases and is utilized as a Marine Corps tactical data communications node. Designated TDN Servers will be upgraded to support SCI traffic in a future program block.

(1) Transport Mode. In the transport mode, where the TDN Gateway is present, the TDN Server transit cases will be transported by an M1097A1, Heavy-variant High Mobility Multipurpose Wheeled Vehicle (H-HMMWV) provided as support equipment with the TDN Gateway. In all other scenarios, using unit provided assets would transport the TDN Server.

(2) Operational Mode. In the operational mode, the TDN Server comprises four transit cases. Two of these cases are operational cases known as the LAN Access Case and the Network Access Case. The Network Access Case will be placed on top of the LAN Access Case. Together these cases, with the front and backsides removed, constitute the TDN Server in the operational mode. The other two transit cases are called the uninterruptible power supply (UPS) Storage Case and the User Access Storage Case. The UPS Storage Case contains a UPS that provides fluctuation isolation from and graceful system shutdown in the event of loss of externally generated power. The User Access Case is used for transporting other TDN Server ancillary items and provides storage space for various cables, test equipment, etc., needed for operation and maintenance. The TDN Server consists of two variants. The following information applies:

(a) TDN Server V(1) is a four transit case solution. It may act as either a NIPRNET or a SIPRNET communications node. To function as a NIPRNET communications node, the NIPRNET removable hard drives must be installed and the NIPRNET IP addresses must be configured. To function as a SIPRNET communications node, the SIPRNET removable hard drives must be installed and SIPRNET IP addresses must be configured.

(b) TDN Server V(2) and TDN Server V(1) have only two differences: the V(2) includes a network encryption device (TACLANE, KG-175) and associated cables, and TS removable hard drives vice NIPRNET removable hard drives. The first hard drive will be labeled secret. The second hard drive will be labeled TS.

d. Operational Characteristics. The TDN system serves as the primary tool for data traffic management and control within the MAGTF Command, Control, Communications, Computers and Intelligence (C⁴I) System. It assists the system administrator in performing network administrative tasks with specific regard to addressing, transmission control, and internet protocols. Incoming and outgoing files and messages from LANs and Wide Area Networks (WANs) are transmitted to their intended recipients via smart switching while on-demand routing provides economy of existing communications bandwidth. The servers are interconnected with one another and to gateways to build the Marine Corps backbone in-theater communications network. The TDN ORD requires supporting the following users and TDSs:

- (1) Intelligence Analysis System (IAS)
- (2) Tactical Combat Operations (TCO)
- (3) Initial Fire Support Automation System (IFSAS)
- (4) Marine Integrated Personnel System (MIPS)
- (5) Advanced Field Artillery Tactical Data System (AFATDS)
- (6) Position Location Reporting System (PLRS)
- (7) Marine Integrated Logistics System (MILOGS)
- (8) Marine Combat Service Support Command and Control System (MCSSC2)
- (9) Advanced Tactical Air Command Control (ATACC)
- (10) Improved Direct Air Support Central (IDASC)
- (11) System Planning Engineering Evaluation Device (SPEED)
- (12) MAGTF Tactical Warfare Simulation (MTWS)
- (13) DMS Area Control Center
- (14) Enhanced Position Location Reporting System (EPLRS)

e. Replaced Weapon Systems and Equipment. The TDN Server is a new requirement.

2. Administrative Information

a. Nomenclature. AN/TSQ-XXX V(1), AN/TSQ-XXX V(2)

b. TAMCN. A25387GP V(1), A25397GP V(2)

c. SAC. 3

d. NSN. 5895-01-467-6942 V(1), 5895-01-474-0355 V(2)

e. ID. 10665A V(1), 10708A V(2)

f. UI. EA

g. UC. \$ 81,871.00

h. Support Costs. The estimated annual support cost is \$2,201.00 in Operations and Maintenance Marine Corps (O&MMC) per system.

i. Physical Characteristics. The dimensions listed in Tables 1 and 2 below apply to the TDN Server transit cases. The weights listed below apply to the fully equipped transport mode of the case.

Table 1. Operational Configuration

	NETWORK ACCESS CASE	UPS CASE	USER ACCESS CASE	LAN SERVICE CASE
Length	36.5 in.	28.5 in.	28.5 in.	36.5 in.
Width	22.47 in.	22.25 in.	22.25 in.	22.47 in.
Height	26.84 in.	19.44 in.	19.44 in.	26.84 in.
Square	5.7 sq. ft.	4.40 sq. ft.	4.40 sq. ft.	5.7 sq. ft.
Cube	12.74 cu. ft.	7.13 cu. ft.	7.13 cu. ft.	12.74 cu. ft.
Weight	183 lbs.	162.3 lbs.	144.5 lbs.	191.5 lbs.
Stowage	12.74 cu. ft.	7.13 cu. ft.	7.13 cu. ft.	12.74 cu. ft.

Table 2. Storage and Shipping Configuration

	NETWORK ACCESS CASE	UPS CASE	USER ACCESS CASE	LAN SERVICE CASE
Length	36.5 in.	28.5 in.	28.5 in.	36.5 in.
Width	22.47 in.	22.25 in.	22.25 in.	22.47 in.
Height	26.84 in.	19.44 in.	19.44 in.	26.84 in.
Square	5.7 sq. ft.	4.40 sq. ft.	4.40 sq. ft.	5.7 sq. ft.
Cube	12.74 cu. ft.	7.13 cu. ft.	7.13 cu. ft.	12.74 cu. ft.
Weight	183 lbs.	162.3 lbs.	144.5 lbs.	191.5 lbs.
Stowage	12.74 cu. ft.	7.13 cu. ft.	7.13 cu. ft.	12.74 cu. ft.

j. POL. N/A

k. Equipment Density. Normal Density

l. Resource Reporting. The TDN Server will be a candidate for Marine Corps Ground Equipment Resource Reporting (MCGERR) once the system is fully fielded per the current edition of MCBul 3000.

m. Power Requirements. The TDN Server utilizes 120 VAC Wye, 60-Hz, power input for normal operations. The UPS provides filtering for smooth power and lightning arrestors for surge protection of equipment inside the server. The TDN Server, while operating in a garrison environment, will utilize standard 60-Hz, 110 volts, of AC power.

n. Associated Weapon Systems and Equipment. The associated equipment utilized with the TDN Server and provided to units with the fielding of the TDN Server is identified in Table 3 below. The TDN Server will interface with the tactical communication systems identified in Table 4.

Table 3. Associated Equipment with the TDN Server

NOMENCLATURE	NSN/ PART NUMBER	QTY	TAMCN
Loop Encryption Device (LED), KIV-7HS, w/Wire line Adapter, WLA-7	5810-01-431-8264/ 4070580-0501	2	A8084
Tactical Fiber Optic Bulkhead Connector # 107	A3102750	10	N/A

Table 4. Tactical Communication Systems Interfaces

NOMENCLATURE	NSN	TAMCN
Digital Technical Control Facility	5895-01-467-7213	A0499
Data Network, Gateway	5895-01-467-7469	A2535
Automatic Telephone Central Office, AN/TTC-42	5805-01-188-3993	A0248
Automatic Telephone Switchboard, SB-3865	5805-01-187-9399	A2508
Satellite Communications (SATCOM) Terminal, AN/TSC-85B	5895-01-284-8305	A0812
SATCOM Terminal, AN/TSC-93B	5895-01-284-8306	A0814
Radio Terminal Set, AN/MRC-142	5895-01-333-3040	A1955
Troposcatter Radio Set, AN/TRC-170	5895-01-354-7601	A2179
Tactical Fiber Optic Cable, CX-13295	6020-01-220-5435	H3458
TROJAN SPIRIT II, AN/TSQ-190	5895-01-379-0125	A3235
TRIBAND SATCOM Terminal, AN/TSC-156	5895-01-454-5365	A0818
SMART-T MILSTAR SATCOM Terminal, AN/TSC-154	5895-01-435-0571	A3232
EPLRS Radio Set, AN/VSQ-2C(V)1	5820-01-342-0506	A2152

3. Fielding Methodology

a. General Fielding Plan. The TDN Server will be fielded vertically. Initial Operating Capability (IOC) will be achieved during second quarter FY-02, once a sufficient number of personnel have been trained to support I MEF. The TDN Server is a Category 1, Level 3 system fielding under the Total Package Fielding method in accordance with Technical Manual (TM) 4420-15/1.

- (1) List of Allowances and Delivery Schedule. See Appendix A.

(2) Schedule of Events. See Appendix B.

b. Method of Fielding. The TDN Server will be force fed to gaining commands, with the first systems being fielded to Marine Corps Tactical Systems Support Activity (MCTSSA), Marine Corps Communication-Electronics School (MCCES) and the Command and Control Systems School (CCSS) in the third quarter of FY01.

c. Fielding Responsibilities

(1) Gaining Commands. The gaining command is responsible for provision of the fielding facility/facilities, in addition to applicable services and security commensurate with the fielding effort for the command. These facilities and services include:

(a) Central Fielding Facility. Provide adequate sheltered and secure workspace for equipment installation, issue, and storage of Controlled Cryptographic Item (CCI) and Materiel Fielding Team (MFT) tools. Provide office space with requisite office furnishings for the MFT Site Chief. The storage area should be accessible to large trucks and have adequate space for the use of a forklift to offload material from trucks to the storage area and material to/from the storage area to the installation area. The facility should have adequate power for operation of the MFT's office equipment (computer and fax machines) and power tools. Provision or access to Class A telephone service for voice, data, and fax is also required.

(b) Central Training Facility. Provide adequate secure classroom space with the capacity for 22 students and the conduct of concurrent New Equipment Training (NET). Office space is required for the Training Supervisor and support personnel with requisite office furnishings. Provision or access to Class A telephone service for voice, data, and fax is also required.

(c) Unit Representative. Each unit fielded the TDN Server is to provide a representative authorized to conduct a joint Limited Technical Inspection (LTI) with the MFT representative for acceptance of the TDN Server to the unit. An authorized unit representative will also be required for acceptance and invoice of the CCI components issued with the TDN Server.

(d) Command Single Point of Contact (POC). A single POC from the Commander's Staff, authorized to act as liaison and coordinator for the fielding effort, is required. This representative is required in order to resolve any problems or issues that may arise with facilities provided, as well as conflicts between the unit fielded and the MFT. This POC is also the command representative to the TDN Project Officer for resolution of problems associated with fielding of the TDN Server.

(e) Material Disposal. As TDN Server fielding creates disposable and recyclable materials, dumpsters, and other appropriate disposal containers are required at the fielding site.

(f) Transportation and Material Handling Equipment. Provision of transport of TDN Server material from the base or facility Traffic Management Office (TMO) will be required. The availability of a forklift and operator for use by MFT warehouse personnel is required for moving, loading, and unloading TDN Server material in the storage area.

(2) MARCORSYSCOM. The TDN Project Officer is responsible for the execution, direction, and funding of the TDN Server fielding effort, i.e., employing a contracted MFT to install and issue the TDN Server to units possessing authorized allowances, in addition to conducting concurrent NET training as directed. The TDN Project Officer may designate staff members as the Fielding and/or Training Officer/Chief, as appropriate. The Fielding and Training Officer are the representatives of the TDN Project Officer and are responsible for the direction and provision of material to the MFT and the resolution of problems associated with fielding and training.

(a) MFTs. The TDN Server MFTs are responsible for the day-to-day operation of TDN Server fielding and training to major commands/activities based on the fielding and training schedule and other agreements established by MARCORSYSCOM and the gaining command.

(b) MFT Site Chief. The MFT Site Chief is the representative of the TDN Project Officer in matters associated with day to day fielding of material. The Training Chief is the representative of the TDN Project Officer in matters associated with training. Fielding is conducted in accordance with agreements, written or verbal, authorized by MARCORSYSCOM, the TDN Project Officer, and the major command and/or the POC. Quantities fielded will be in accordance with the allowances in Appendix A of this ULSS. Exceptions to Appendix A are authorized by CG, Marine Corps Combat Development Command (MCCDC) only.

(c) MFT Administrative Matters. Funding, billeting, and transportation matters for personnel of the TDN Server MFT are the responsibility of the TDN Project Officer and the gaining command's POC.

(d) MFT Arrival at Gaining Command. The TDN Project Officer or the Fielding Officer/Chief will ensure that gaining commands are notified of the pending arrival of the TDN Server MFT, its personnel composition, and any special requirements associated with their stay in the command's area. This notification will be by Naval message or other appropriate means.

(e) Coordination of Fielding Effort. The TDN Project Officer or a representative will coordinate the fielding effort to the gaining commands in conjunction with the MFT Site chiefs as required.

(3) COMMARCORLOGBASES, Albany. Commander, Marine Corps Logistics Bases (COMMARCORLOGBASES) will assign participants to the MFT.

(4) Software Support Activity. Assign participants to the MFT.

4. Logistics Support

a. Maintenance Support. The TDN Server relies to a great extent on contractor/vendor support for maintenance. However, flexibility for organic support at the organizational and intermediate level does exist.

(1) Maintenance Concept. The TDN Server maintenance concept was developed using standard Marine Corps levels and echelons of maintenance. The TDN Server will be supported at

the lowest level and as far forward to the user as possible. This concept provides for three levels of maintenance: organizational, intermediate, and depot. These three levels of maintenance are further divided into five echelons, first and second echelon at the organizational level of maintenance, third and fourth echelons at the intermediate level, and fifth echelon at the depot level of maintenance.

The using unit has responsibility to provide organizational level maintenance, to include first echelon preventive maintenance on all organic assets. Echelons of maintenance are outlined in the unit's Table of Organization (T/O) mission statement. The TDN Server Operator/Maintainer, assisted by other maintenance personnel, will accomplish first and second echelon maintenance tasks. Units will use established organic maintenance procedures for equipment identified in Table 3. For all other equipment, the maintenance concept is to provide the using unit fault isolation capability to the Line Replaceable Unit (LRU). The priority and emphasis for TDN maintenance is system restoration. Personnel authorized to perform TDN maintenance will remove the faulty LRU, replace it with a functional item, and evacuate the faulty LRU to intermediate maintenance for repair and/or replacement as appropriate.

(a) Organizational Level Maintenance (First and Second Echelon). TDN Server Operators/Maintainers, Military Occupational Specialty (MOS) 4066 (0651/0661) and additional maintenance personnel MOS 2818/ 2821 will perform organizational maintenance tasks. Organizational maintenance tasks will include, but are not limited to:

- 1 Removing and replacing failed LRUs,
- 2 Installing application software and configuring the server LAN,
- 3 Installing, setting up, and configuring all components of the TDN Server,
- 4 Restoring system and application software,
- 5 Fault isolating using Built-in-Test (BIT)/Built-in-Test Equipment (BITE) and General Purpose Test Equipment in the form of COTS LAN Analyzers, and
- 6 Completing required repairs on internal or external TDN cables.

(b) Intermediate Level Maintenance (Third and Fourth Echelon). During the warranty period, General Dynamics Communication Systems (GD-CS) will perform intermediate maintenance tasks on the TDN Server excluding the equipment identified in Table 3. Once the warranty period ends, trained technicians, MOS 2818/ 2821, will perform intermediate maintenance. Intermediate maintenance tasks will include, but are not limited to:

- 1 Fault isolation of the LRU/circuit card using standard tools and test equipment,
- 2 Identification and replacement of defective components, alignment (if required), calibration (if required), and return of the equipment to full operation with minimal downtime,
- 3 Repair of the TDN system by removing and replacing failed LRUs,
- 4 Completion of required repairs on internal or external TDN cables, and
- 5 Providing assistance to TDN Operator/Maintainer personnel on complex maintenance tasks.

(c) Depot Level Maintenance (Fifth Echelon). Depot level maintenance includes the complete overhauling, rebuilding, and calibration of equipment, as well as the performance of highly complex maintenance actions. GD-CS will perform depot level maintenance for warranted

components of the TDN Server. Materiel not covered by warranty will follow established organic maintenance procedures. Complete system rebuild/overhaul is not envisioned for the TDN Server.

(2) Designated Support Depots. Upon completion of the Interim Contractor Support (ICS) period, the Marine Corps Maintenance Center Activity, Marine Corps Logistics Bases (MARCORLOGBASES), Albany, GA will accomplish organic depot support.

(3) Calibration Requirements. General Purpose Test Equipment listed in Table 9 is currently available in the Marine Corps inventory and established calibration procedures will be followed.

b. Contractor Support Requirements

(1) Depot Support. Depot support during the warranty period will be provided by the production contractor, GD-CS at their Taunton, MA, facility in order to optimize the use of production engineers and expedite problematic equipment resolutions. TDN Servers with a valid warranty extending beyond December 2004 will rely on GD-CS for depot support. After the warranty period expires, TDN Servers will rely on MARCORLOGBASES, Albany, GA. Non-warranted component and/or vendor support will be utilized as appropriate, through coordination with the Weapon System Manager (WSM) at MARCORLOGBASES, Albany, GA.

(2) ICS. The Commander, MARCORSYSCOM (COMMARCORSYSCOM), has funded GD-CS to provide interim support services from January 2002 to December 2004. Units are responsible for budgeting resources for non-warranted repairs. Upon completion of the ICS period, TDN Servers still possessing a valid warranty will coordinate warranty repairs with the Warranty Administrator at MARCORLOGBASES. In addition, the contractor will provide the following services, as a minimum:

(a) GD-CS will maintain a fully integrated contractor logistics database system (Guardian) to capture/record details on warranty failure rates and maintenance actions to include: date, time, reporting unit, response time, item, part number, failure and failure mode, and corrective action taken. The Guardian logistics database system will provide warranty tracking and transferring control when replacement parts are provided, as well as part/stock number cross referencing. Guardian will be available on-line and will allow management personnel at MARCORLOGBASES, Albany, and MARCORSYSCOM direct access to the warranty database. Guardian captured data will be utilized to identify failure rates/trends and to compile spares/repair parts usage data necessary to transition to organic maintenance procedures at the end of the ICS period. GD-CS will deliver to the Government all documentation generated during the ICS period in order to facilitate the transition to organic support.

(b) Establish and maintain a 24-hour per day, 365-day per year, technical assistance helpdesk and hotline to assist operator and maintenance personnel. The toll free number established is 1-877-888-USMC. A log shall be maintained which documents all calls to include using unit. (The GD-CS technical assistance hotline can be accessed internationally for a toll.)

(3) CLS. Contractor Logistics Support (CLS) for the TDN Server is not envisioned at this time.

c. Manpower, Personnel, and Training

(1) Personnel Requirements. Specific manpower, personnel, and training requirements, including job tasks, have been formalized in the Manpower and Training Plan (MTP).

(a) TDN Server Operator/Maintainer. Each TDN Server will require a Server Operator/Maintainer, MOS 4066 (0651/0661), Small Systems Computer Specialist (Private (Pvt)-Sergeant (Sgt)), per 12-hour shift, to install, operate, and maintain the TDN Server at the organizational level. Operator tasks will include, but are not limited to the following:

- 1 Operating the TDN Server to include set-up and tear down,
- 2 Monitoring system operation and network performance,
- 3 Assigning functional user identifications, passwords, and privileges,
- 4 Installing application software and configuring the server LAN,
- 5 Installing, setting up, configuring all components, and tearing down the TDN Server,
- 6 Identifying, installing, and configuring individual TDS interface requirements,
- 7 Restoring system and application software, and
- 8 Repairing the TDN Server by removing and replacing failed LRUs.

(b) Additional TDN Server Maintainers. Additional TDN Server maintenance will be performed by personnel with MOSs 2818 and 2821.

1 Warranty Period. During the warranty period, first and second echelon maintenance will be accomplished by TDN Server Operators/Maintainers. Intermediate level maintenance for warranted items will be performed by GD-CS. Specific tasks will be accomplished in accordance with warranty procedures.

2 Post Warranty Period. Once the TDN Server three-year system warranty ends, TDN Server Operators/Maintainers will accomplish intermediate level maintenance tasks. Authorized post warranty maintenance tasks for MOS 4066 (0651/0661) include, but are not limited to:

- a Monitoring system operation and network performance,
- b Fault isolating using BIT/BITE and General Purpose Test Equipment, and
- c Restoring system and application software.

Maintenance tasks for MOS 2818/2821 will include, but are not limited to:

- a Continued fault isolation of LRU/circuit card using either standard tools and test equipment or special tools and test equipment, and
- b Completion of required repair on internal or external TDN cables and cable connector repair.

(2) Training Requirements. Training will include: (a) Follow-on Operational Test and Evaluation (FOT&E) Training, (b) contractor provided Instructor and Key Personnel (I&KP)

training, (c) New Equipment Training (NET) by I&KP team and/or contractor personnel and (d) MOS formal school training. The contractor will present the courses listed below in Table 5 to the number of students at the sites indicated:

Table 5. TDN Server Operator Course Sites

TYPE/LENGTH	# COURSES	# STUDENTS	LOCATION	DATES
FOT&E - 33 days	1	22 per class	Camp Pendleton, CA	26 Jul 01 – 28 Aug 01
I&KP – 35 days	1	22 per class	Camp Pendleton, CA	23 Oct 01 – 13 Dec 01
NET I – 36 days	1	22 per class	Camp Pendleton, CA	20 Feb 02 – 10 Apr 02
NET II - 39 days	1	22 per class	Camp Lejeune, NC	9 May 02 – 3 Jul 02
NET III - 36 days	1	22 per class	Camp Hansen, OKI	4 Sep 02 – 23 Oct 02
NET IV - 36 days	1	22 per class	Reserves-TBD	2 Jan 03 – 21 Feb 03

(a) FOT&E Training. The first increment of an operator/maintainer course to support the FOT&E shall be taught by the contractor using draft, Government-approved courseware. Government-approved comments and recommendations for course improvement received from FOT&E course attendees shall be incorporated into the final, approved courseware. FOT&E training will be conducted at Camp Pendleton, CA.

(b) I&KP Training. The second increment of training shall be I&KP training. Instructors from MCCES, CCSS, MCTSSA, and designated personnel from the MEFs will attend I&KP training at Camp Pendleton, CA. These personnel will then be used to initiate and transition TDN specific training into the respective school and MOS producing curriculum. Government-approved attendee's comments and recommendations for course improvement shall be incorporated in the courseware.

(c) NET. New Equipment Training will enable the using unit to utilize the TDN Server in its intended operational mode and will coincide with initial delivery of the systems. The NET Team will consist of instructors provided by the contractor. This training will be conducted at each receiving MEF location.

(d) MOS Formal School Training. The contractor will develop training material and products of sufficient depth to demonstrate and teach all major modes of operation and maintenance. This training package shall be inserted into the appropriate training tracks. Details on performing TDN operation and maintenance will be covered in addition to TDN system administration and network planning concepts. Formal MOS training will be conducted at MCCES for the TDN Server Operator, MOS 4066 (0651/0661), Small Systems Computer Specialist Course.

1 Additional TDN Server Maintainers. At the end of the ICS period, training will be developed and provided to MOS 2818/2821 personnel, as needed for assumption of intermediate maintenance tasks.

(3) Training Support Items. A limited number of TDN Servers are being provided for training purposes. Current allowances are listed in Table 6:

Table 6. TDN Server Training Support Items

LOCATION	QTY
MCCES	6
CCSS	2
MARCORDET (MOS 2600 SCHOOL)	1

d. Supply Support. In order to maintain system readiness levels, Initial Issue Provisioning (IIP) packages will be provided to augment system warranty procedures. Typically, unit maintenance activity supply representatives will facilitate the direct exchange/return of unserviceable LRUs as outlined in the unit Warranty Administrator's responsibilities. Limited product drawings will be required to support the system-level provisioning effort. Drawings for otherwise provisioned items will be utilized and included in the system technical data package, if available.

(1) Spares. An IIP package containing normal density spare/repair parts will be released by MARCORLOGBASES, Albany, GA to the SASSY Management Unit (SMU) of each active MEF's Force Service Support Group (FSSG) and MARFORRES to coincide with the delivery schedule listed in Appendix A of this document. MCTSSA and MCCES will receive an IIP package of spare/repair parts in the second quarter of FY02 in support of the TDN Server.

(2) Spares Transition. During the ICS period, maintenance failure rates captured by the contractor's Guardian Logistics database will be monitored by MARCORLOGBASES, Albany, to identify trends. Upon the completion of the ICS period, MARCORLOGBASES, using this data, will augment spares blocks previously positioned at unit maintenance activities, and transition to organic supply procedures.

e. Support Equipment. The TDN Server is designed to minimize support equipment required at the user level. It is supportable by the common suite of Marine Corps General Purpose Test Equipment. The TDN Server is an integration of COTS and Government-off-the-Shelf (GOTS) hardware and software. Test, Measurement, and Diagnostic Equipment (TMDE) identified for the TDN Server will be Common Tools or General Purpose Test Equipment and is identified below.

(1) Special Tools. There are no special tools identified at this time.

(2) Common Tools. See Table 7 below.

Table 7. Common Tools

NOMENCLATURE	PART NUMBER	NSN	TAMCN
Tool Kit, Electronics Maintenance	270067	5180-01-244-1290	A7900

(3) Special Purpose Test Equipment. No Special Purpose Test Equipment is identified at this time.

(4) General Purpose Test Equipment. See Table 8.

Table 8. General Purpose Test Equipment

NOMENCLATURE	PART NUMBER	NSN	TAMCN
Digital Multimeter, Fluke *	77/BN	6625-01-336-3372	H7030
Test Set, LAN *	686/AN	6625-01-456-1561	A7084
Cable Tester, Wavetek *	LANTEK, PRO XL	6625-01-449-3658	H7015

* Using Unit Responsible Item (UURI) on SL-3.

(5) Application Program Sets and Test Program Sets. There are no Application Program Sets or Test Program Sets identified at this time.

(6) Other Support Equipment. See appendix G.

f. Technical Publications. The final technical publications on CD-ROM, which will support and be associated with this WS/E will be overpacked with the system. All system publications will be found on the Interactive Electronic Technical Manuals (IETM) CD-ROM identified below. A complete listing of TMs required to support the system and provided as part of the IETM can be found in Appendix D.

TM Number	Short Title	PCN
TM 10665A-CD	Operation and Maintenance Manual with Parts List, Tactical Data Network Server (TDN), AN/TSQ-XXX	176 106650 00

The IETM developed for this WS/E has all applicable publications as part of the IETM. There is a management plan for the IETM located in Appendix E. It will be very important for the Marines and the WSM to ensure all publications used in this IETM are kept current and they are identified whenever there are changes. Marines are reminded to review the procedures for submitting a Navy and Marine Corps (NAVMC) form 10772 for recommended changes or suggestions to publications.

g. Computer Resources Support

(1) Software/Firmware Support. Due to the extensive use of COTS/NDI software, a dedicated Weapon System Support Activity (WSSA) will not be required to support the TDN Server. MCTSSA, the Assistant Program Manager for Software, will perform any WSSA functions required to include updating, staffing, revising, and distributing the approved Computer Resources Life Cycle Management Plan (CRLCMP). As outlined in the Software Transition Plan, GD-CS will maintain the software until turned over to the government. While under GD-CS control, MCTSSA will provide the government review, including security concerns, of proposed changes to the software baseline. When the software has transitioned to government control, MCTSSA local procedures for configuration control and software maintenance will be in effect. At a minimum, MCTSSA will maintain configuration control of the software identified in Tables 9, 10, 11, and 12.

(2) Software Description. The TDN Server software primarily resides on the TDN Network Management Software (NMS) workstation. The software is packaged in multiple forms. The software can be loaded in an accelerated form or via a manual process. Software listed in Tables 9,

10, and 11 is required to complete the TDN Server NMS software installation process. To support an accelerated installation, the software listed in Tables 9, 10, and 11 is required. Specific software loaded during this accelerated installation is denoted in the third column with “Accelerated.” To support a manual installation, software listed in Tables 10, 11, and 12 is required. Specific software to be loaded during a manual installation is denoted in the third column with “Manual.” Table 9 below identifies cloned software loaded to the Clone CD required for a standard installation.

Table 9. Clone CD Software List

TDN Server Network Management Software			
Software Nomenclature	TDN Server Clone Disk CD		Part Number
	CD #	Software to be loaded	
NT 4.0 Operating System	1 / 1	Accelerated	99002A7060-1
Service Pack 5 for NT 4.0	1 / 1	Accelerated	99002A7060-1
Video Driver: Matrox Millennium G200	1 / 1	Accelerated	99002A7060-1
Norton AntiVirus 5.0		Accelerated	99002A7060-1
Netscape Communicators 4.7	1 / 1	Accelerated	99002A7060-1
Walusoft TFTP Suite Pro 2000	1 / 1	Accelerated	99002A7060-1
Network Time Protocol (XNTP 3.5) Client/Server	1 / 1	Accelerated	99002A7060-1
Norton Ghost 6.0	1 / 1	Accelerated	99002A7060-1
Window Service For Unix 1.0	1 / 1	Accelerated	99002A7060-1
Tera Term Pro 2.3	1 / 1	Accelerated	99002A7060-1
Tape Driver	1 / 1	Accelerated	99002A7060-1
Norton SpeedDisk 5.0	1 / 1	Accelerated	99002A7060-1
Adobe Acrobat Reader 4.0	1 / 1	Accelerated	99002A7060-1
MetaIP 4.1 Enterprise Edition (with SP3)	1 / 1	Accelerated	99002A7060-1

Table 10 identifies the InstallShield software loaded to multiple CDs, which is needed to perform a standard installation of the TDN Server workstation. This software will also be used to support a manual installation.

Table 10. InstallShield Software

TDN Server Network Management Software			
Software Nomenclature	InstallShield CD Set		Part Number
	CD #	Software to be loaded	
NT 4.0 Operating System	1 / 5	Manual	99002A7058-1
Service Pack 5 for NT 4.0	1 / 5	Manual	99002A7058-1
Video Driver: Matrox Millennium G200	1 / 5	Manual	99002A7058-1
Norton AntiVirus 5.0	1 / 5	Manual	99002A7058-1
	CD #	Software to be loaded	
Netscape Communicators 4.7	1 / 5	Manual	99002A7058-1
Walusoft TFTP Suite Pro 2000	1 / 5	Manual	99002A7058-1
Network Time Protocol (XNTP 3.5) Client/Server	1 / 5	Manual	99002A7058-1
Window Service For Unix 1.0	2 / 5	Manual	99002A7058-1
Tera Term Pro 2.3	2 / 5	Manual	99002A7058-1
Printer Driver	2 / 5	Manual	99002A7058-1
Tape Driver	2 / 5	Manual	99002A7058-1
Norton SpeedDisk 5.0	2 / 5	Manual	99002A7058-1
Adobe Acrobat Reader 4.0	2 / 5	Manual	99002A7058-1
MetaIP 4.1 Enterprise Edition (with SP3)	2 / 5	Manual	99002A7058-1
Internet Explorer 4.02	3 / 5	Accelerated /Manual	99002A7058-1
NT Option Pack 4 (IIS 4.0 & FTP)	3 / 5	Accelerated/Manual	99002A7058-1
SiteNet MultiLink 1.1	3 / 5	Accelerated /Manual	99002A7058-1
COE Kernel 3.4	3 / 5	Accelerated /Manual	99002A7058-1
HPOV NNM 6.1	3 / 5	Accelerated /Manual	99002A7058-1
DMS GWS 2.0.3 (Microsoft Exchange 5.5)	4 / 5	Accelerated/Manual	99002A7058-1
Veritas Backup Exec 8.0	4 / 5	Accelerated /Manual	99002A7058-1
Veritas Backup Exchange Module	4 / 5	Accelerated/Manual	99002A7058-1
Install Shield Script	1&3 / 5	Manual	99002A7058-1
Norton Ghost 6.0	4 / 5	Accelerated /Manual	99002A7058-1
NNM-RME Integration Package	5 / 5		99002A7058-1
CiscoWorks 2000	5 / 5		99002A7058-1

Table 11 represents additional software required to support an accelerated or manual installation of the TDN NMS workstation.

Table 11. TDN Server Network Management Software Support CD Software List

TDN Server Network Management Software			
Software Nomenclature	TDN/DTC MIBs CD		Part Number
	CD #	Software to be loaded	
Management Information Base (MIB)	1 / 1	Accelerated /Manual	99002A7069-1

Table 12 represents a software CD provided to support a manual installation of the TDN NMS workstation.

Table 12. TDN Server NMS Original Operating System (OS) CD Software

TDN Server Network Management Software			
Software Nomenclature	Original OS CD		Part Number
	CD #	Software to be loaded	
Windows NT Server OS 4.0	1 / 1	Manual	99002A7059-1

(3) Software Trouble Reporting. All field-level computer software/firmware problems and requests for changes will be coordinated with the APM Software at MTSSA.

(4) Software Changes. All software changes or new software will be developed by the software maintainer/contractor, tested, loaded into the appropriate media (CD-ROM or Digital Auto Tape (DAT)), and shipped to the fielding sites.

h. Facilities. To be determined.

i. Existing Facilities. The TDN Server is supportable utilizing existing facilities. Special facility requirements, including any additional security restrictions, will be the responsibility of the using unit.

(1) New Facilities. No new facilities are required to support the TDN Server.

(2) Interim Facilities. No interim facilities are required to support the TDN Server.

j. Packaging, Handling, Storage, and Transportation (PHS&T)

(1) Packaging

(a) The TDN Server is provided within storage/transit cases. Preservation and packaging within these cases assures that level A requirements of MIL-STD-2073-1D, DoD Standard Practice for Military Packaging, Appendix A, Table A. VI, Electronic Equipment are met. Marking shall be in accordance with MIL-STD-129N, Standard Practice for military marking.

(b) In the event of a return of an item or its components for repair, return to stock, etc., the owning unit shall be responsible for packaging and preservation within their respective transit cases in accordance with current policy and procedures (i.e. MIL-STD-2073-1D, DoD Standard Practice for Military Packaging, MCO 4030.36, Marine Corps Packing Manual; MIL-HDBK-263, Electrostatic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies, and Equipment (Excluding Electrically Initiated Explosive Devices); and TI-4400-15/1, Packaging, Handling, Storage, and Transportation of Electrostatic Discharge Sensitive Items). Items returned for stock shall be in accordance with the level A requirements. Should a repair/spare part, that is determined to be electrostatic discharge sensitive, be required to be returned for repair or return to stock, it shall be packed and preserved in accordance with the requirements of MIL-STD-

2073-1D, Appendix J, Table J.Ia, Specialized Preservation Code “GX” and TI-4400-15/1. All items determined to be electrostatic discharge sensitive shall be packed into a reusable fast pack container. Items for repair, determined not to be electrostatic discharge sensitive, shall be packed to level B requirements. Marking for shipment shall be in accordance with MIL-STD-129N, Standard Practice for Military Marking.

(2) Handling. The TDN Server cases can be moved, loaded, and unloaded by at least three Marines using the lifting handles located on the outside of the transit cases. A forklift should never be used, due to the possible damage that may result. Special handling of Controlled Cryptographic Items (CCI) is required for equipment associated with the TDN Server. CCI equipment must be handled in accordance with the Communications Security Material System Policy and Procedures Manual (CMS-1A), Section 535 (see Appendix H).

(3) Storage. Preservation and packaging for long term storage shall be within the storage/transit cases in accordance with level A requirements of MIL-STD-2073-1D, DoD Standard Practice for Military Packaging, Appendix A, Table A.VI. Electronic Equipment. Should any special procedures for shelf maintenance or special storage conditions be required, they will be identified by special storage instructions in the TDN Server IETMs or Supply Bulletins.

(4) Transportation. The TDN Server is contained in four storage/transit cases. These transit cases will be fitted with standard 19-inch rack mounts for mounting the components. The TDN Server is capable of being transported via all means available to the Marine Corps (i.e. commercial and military surface truck, rail, commercial/military airlift to include C-130, C-141, C-5, and C-17, and amphibious shipment). CCI equipment within the TDN Server must be transported in accordance with CMS-1A, Director, Communications Security Material System (DCMS) Policy and Procedures Manual. CCI equipment that is “unkeyed” and “decertified,” may be transported with other equipment provided it is sealed within a container and accounted for by a continuous receipt system. Special couriers are required only if the equipment is “certified” or “keyed.” Each transit case can be lifted and moved short distances using a three-person lift.

k. Transportability and Naval Integration. To be determined

l. Warranties. Each TDN Server has a three-year warranty. GD-CS will provide a zero defect warranty covering workmanship, materials (hardware and firmware), design, and performance characteristics. The warranty begins with the acceptance of the TDN Server. The warranty applies to all delivered equipment excluding the equipment identified in Table 3 and the software identified in Tables 9 through 12. Upon completion of the ICS period, TDN Servers still possessing a valid warranty will coordinate warranty repairs with the Warranty Administrator at MARCORLOGBASES. The warranty will not cover components that become defective through no fault of the contractor (i.e., Government employee damaging a component, improper operation, etc.). Payment for non-warranty repairs is the responsibility of the owning unit.

(1) Warranty Type. The warranty guarantees that equipment delivered, including equipment provided by vendors and subcontractors, will remain defect free for three years following acceptance. Table 13 displays warranty and ICS effective dates per gaining command.

Table 13. Warranty and ICS Effective Dates

GAINING COMMAND	WARRANTY PERIOD	ICS PERIOD
MCTSSA	Apr 2001 - Mar 2004	Jan 2002 - Dec 2004
CCSS	Jun 2001- May 2004	Jan 2002 – Dec 2004
MARCORDET	Jun 2001 – May 2004	Jan 2002 – Dec 2004
MCCES	Jun 2001- May 2004	Jan 2002 - Dec 2004
I MEF	Jan 2002 - Dec 2004	Jan 2002 - Dec 2004
II MEF	Apr 2002 - Mar 2005	Apr 2002 - Dec 2004
III MEF	Jul 2002 - Jun 2005	Jul 2002 - Dec 2004
MARFORRES	Oct 2002 - Sep 2005	Oct 2002 - Dec 2004

(2) Covered Items. A complete listing of warranted equipment is contained in Appendix C.

(3) Warranty Administrator. COMMARCORLOGBASES has appointed a Marine Corps Warranty Administrator for the TDN Server. The Warranty Administrator is responsible for coordinating warranty issues/matters with GD-CS. In the event of a warranty dispute, the following Warranty Administrator contact information applies:

MARINE CORPS LOGISTICS BASES
 ATTN: 847-3
 814 RADFORD BOULEVARD
 ALBANY, GA 31704-1128
 DSN: 567-6524/5
 COML: (229) 639-6524/5
 EMAIL: friersone@matcom.usmc.mil

(4) Contractor Responsibilities. Upon notification of a warranted item failure, GD-CS will provide the unit's Warranty Administrator with disposition instructions for return of the failed LRU. Transportation costs to and from the unit will be borne by GD-CS. Within 30 days of receipt of the failed LRU at the contractor's designated facility, GD-CS shall return a repaired or replacement item to the using unit.

(5) Special Handling Instructions. A NAVMC 1018 Inspection/Repair Tag shall be completed and affixed to the failed LRU prior to shipment to the contractor's designated facility. LRUs returned for repair will, whenever possible, be shipped in the reusable containers maintained by the unit maintenance activity from the original shipment of spares. Items, which are electrostatic discharge sensitive, shall be appropriately marked and packaged in protective wrapping material. All items shall be packaged to provide adequate protection from environmental conditions during transit. Shipping containers and accompanying documents shall be marked "warranted item."

(6) Unit's Warranty Administrator Procedures for Failed LRUs. Upon receipt of a failed LRU, the unit's Warranty Administrator will provide initial warranty verification/assessment. A visual inspection should be conducted to confirm that the LRU failure is in fact a warranty action. If misuse/abuse is suspected, the unit's Maintenance Officer should be contacted. The unit's Warranty

Administrator will verify the accurate completion of the NAVMC 1018 Inspection/Repair Tag depicting the LRU failure and contact the GD-CS technical assistance helpdesk toll free number, 1-877-888-USMC. The GD-CS technical assistance helpdesk will provide the unit's Warranty Administrator a Return Material Authorization (RMA) number along with disposition instructions for the failed LRU. The unit Warranty Administrator will package and ship the failed LRU to the contractor's designated facility. Pre-addressed shipping labels will be provided by GD-CS.

m. ESH

(1) The production, maintenance, and operation of the TDN Server does not require the use of any ozone depleting substances or any of the Environmental Protection Agency's list of 17 toxins.

(1) The uninterruptible power supplies contain sealed lead acid batteries. The fluorescent tube located inside the NEC monitor contains mercury; no special precautions are necessary unless the monitor screen is shattered. Disposition and disposal of lead acid batteries and damaged monitors shall be in accordance with established host-nation or federal, state, and local regulations.

(2) The TDN Server could potentially injure personnel by electric shock if high voltage points are touched. Voltage points are guarded and labeled to prevent inadvertent contact during maintenance. There are no operational procedures that require the user to access these voltages. Standard safety practices such as labeling, grounding, and incorporation of warnings into training and technical manuals have been utilized.

(3) The TDN Server utilizes transit cases that require a minimum three-man lift. Items that require more than one person to lift have been labeled to identify personnel requirements and appropriate cautions have been incorporated into training and technical manuals.

n. POA&M. To be determined.

5. Actions Required to Place Equipment in Service

a. Gaining Commands. Gaining commands are required to complete the following actions to place the AN/TSQ-XXX and supporting material/equipment into service:

(1) Inventory. Conduct an inventory and limited technical inspection (LTI) of the TDN Server equipment per its enclosed packing list and LTI procedures and provide a signed copy to: COMMARCORLOGBASES (Attn: 847-3), Albany, GA, with information copies to COMMARCORSYSCOM (C4I COMM), and Commander, Marine Forces Atlantic (MARFORLANT) or Commander, Marine Forces Pacific (MARFORPAC) or Commander, Marine Forces Reserves (MARFORRES) respectively, not later than 10 working days after receipt.

(2) In-service Date. Notify COMMARCORSYSCOM (C4I COMM), and COMMARCORLOGBASES (Attn: 847-3) when new equipment is placed in service.

(3) Accountability. Gaining commands will ensure accountability for new assets on unit property records/controlled-item-reporting per the current editions of MCO P4400.150 and MCO P4400.82.

(4) Post Evaluation Reports. Gaining commands will submit post fielding evaluation reports per the current editions of MCO 4105.4 and TM 4420 15/1.

(5) Materiel Defects Reporting. A Product Quality Deficiency Report (PQDR) will be submitted for category 1 and 2 deficiencies identified, per the current edition of MCO 4855.10 and local operating procedures. The MARCORSSYSCOM Project Officer will be advised of deficiencies requiring immediate attention.

(6) Retrograde of Existing Equipment. Not applicable. The TDN Server is a new capability and will not replace any existing weapon system.

(7) Obtaining Supporting Consumables. Gaining commands are required to budget for and requisition supporting consumables. These items should be readily obtainable from local Direct Support Supply Center (DSSC) (ServMart) using locally established procedures. For a complete listing of consumable items, see Appendix F.

(8) Security Requirements. Ensure all CCIs, classified disk cartridges, and data will be stored in accordance with CMS-1A, DCMS Policy and Procedures Manual. Table 14 represents CCI equipment requiring secure communications for the TDN Server.

Table 14. TDN Server CCI

NOMENCLATURE	NSN	QTY	TAMCN
LED, KIV-7HS w/Wireline Adapter	5810-01-431-8264	2	A8084
Inline Network Encryptor (INE), KG-175 (One per TS Variant, 14 total)	5810-01-463-0133	1	A8088

(9) Controlled Item Reporting. The TDN Server is a controlled item and will be reported per the current edition of MCO P4400.82.

(10) MCGERR. The TDN Server is a candidate to be reported under the MCGERR system as specified in MCBul 3000.

b. COMMARCORLOGBASES, Albany. The WSM will ensure the following is accomplished:

(1) Establish and implement administrative control mechanisms for supply support and depot level maintenance programs provided by the contractor or system integration facility.

(2) Provide gaining unit requests for Table of Equipment (T/E) deficiencies required to support the functionality of the new product.

(3) Identify when fielding reaches 85 percent of the programs planned allowances to the Program Manager (PM). If this equipment is reportable per the current edition of MCBul 3000, notify Headquarters Marine Corps (LPP-1) when fielding reaches 85 percent.

(4) Monitor National Stock Number (NSN) attainment, evaluate maintenance failure rates captured by Guardian logistics database system provided by GD-CS on a quarterly basis, and adjust sparing levels, as required, during the ICS period. In addition, augment positioned spares upon completion of the ICS period, and transition the system to organic supply support.

(5) Ensure the Warranty Administrator assigned resolves warranty issues reported by the user community, monitors PQDRs for trend analysis, and reports the results to the PM.

(6) Post published ULSS on document repository.

c. MARCORSYSCOM. The Program Management Office will ensure the following is accomplished:

(1) Ensure that the system is loaded into the Logistics Management Information System (LMIS) and the appropriate T/Os and T/Es are updated. Ensure action is initiated to reflect allowance data in the Equipment Allowance File (EAF) coinciding with the project in-service date.

(2) Field the system to the Operating Forces. Notify appropriate activities of any problems or issues that delay fielding beyond the projected in-service date.

(3) Program funds and budget for the initial fielding of the end item.

(4) Provide all aspects of technical and logistics assistance to the gaining commands. Periodically provide briefing on any planned product improvements.

(5) Maintain life cycle management of the system per the current editions of MCO 4105.4 and TM4420 15/1, as required.

(6) Provide COMMARCORLOGBASES, Albany, the digital signed ULSS for posting on the document repository.

d. Designated Software Support Activity. Duties of the Software Support Activity will be performed by MCTSSA.

APPENDIX A

List of Allowances and Delivery Schedules

T/E NO.	UNIT NAME	UNIT PLANNED ALLOWANCE	MULTIPLIER	TOTAL	DELIVERY SCHEDULE						
					FY01		FY02			FY03	
					3	4	1	2	3	4	1
COMM BN – Rationale: One server to support SECRET and one server to support UNCLASS at MEF HQ MAIN, REAR, and FORWARD.											
N4685	D/S, COMMCO, COMM BN, I MHG	8	3	24				24			
N4785	D/S, COMMCO, COMM BN, II MHG	8	3	24					24		
Rationale: Two servers to support MEU command element.											
N4686	HQ CO, COMM BN, I MHG	6	1	6				6			
N4786	HQ CO, COMM BN, II MHG	6	1	6					6		
N4886	HQ CO, COMM BN, III MHG	2	1	2						2	
Rationale: One server to support SECRET and one server to support UNCLASS at MEF HQ MAIN.											
N4885	D/S CO, COMM BN, III MHG	12	1	12						12	
N4985	D/S CO, COMM BN, MARFORRES	12	1	12							12
GCE – DIVISION HQ – Rationale: One server to support SECRET and one server to support UNCLASS at COMM CO, one server to support SECRET and one server to support UNCLASS at DIV FWD and MAIN.											
N1015	COMMCO, HQBN, 1ST MARDIV	8	1	8				8			
N1025	COMMCO, HQBN, 2D MARDIV	8	1	8					8		
N1035	COMMCO, HQBN, 3D MARDIV	8	1	8						8	
N1045	COMMCO, HQBN, 4TH MARDIV	8	1	8							8
INF REGMT HQ – Rationale: One server to support SECRET and one server to support UNCLASS at REGT MAIN, one server to support SECRET at REGT FWD.											
N1111	HQCO, INFREGT, 1ST MARDIV	3	3	9				9			
N1121	HQCO, INFREGT, 2D MARDIV	3	3	9					9		
N1131	HQCO, INFREGT, 3D MARDIV	3	1	3						3	
B1131	HQCO, INFREGT, 3D MARDIV (HI)	3	1	3						3	
N1141	HQCO, INFREGT, 4TH MARDIV	3	3	9							9
INF BN – Rationale: One server to support SECRET.											
N1162	H&SCO, INFBN, INFREGT, 1ST MARDIV	2	10	20				20			
N1172	H&SCO, INFBN, INFREGT, 2D MARDIV	2	8	16					16		
N1182	H&SCO, INFBN, INFREGT, 3D MARDIV	2	4	8						8	
B1182	H&SCO, INFBN, INFREGT, 3D MARDIV (HI)	2	2	4						4	

T/E NO.	UNIT NAME	UNIT PLANNED ALLOWANCE	MULTIPLIER	TOTAL	DELIVERY SCHEDULE								
					FY01		FY02				FY03		
					3	4	1	2	3	4	1	2	
N1192	H&SCO, INFBN, INFREGT, 4TH MARDIV	2	9	18								18	
ARTY REGT HQ – Rationale: One server to support SECRET and one server to support UNCLASS at REGT MAIN and REGT FWD.													
N2101	HQBTRY, ARTYREGT, 1ST MARDIV	2	1	2				2					
N2201	HQBTRY, ARTYREGT, 2D MARDIV	2	1	2					2				
N2301	HQBTRY(-), ARTYREGT, 3D MARDIV	2	1	2						2			
N2401	HQBTRY, ARTYREGT, 4TH MARDIV	2	1	2								2	
ARTY BN – Rationale: One server to support SECRET.													
N2109	HQBTRY, ARTYBN (M198), ARTYREGT, 1ST MARDIV	2	4	8				8					
N2209	HQBTRY, ARTYBN (M198), ARTYREGT, 2D MARDIV	2	4	8					8				
N2309	HQBTRY, ARTYBN (M198), ARTYREGT, 3D MARDIV	2	1	2						2			
B2309	HQBTRY, ARTYBN, ARTYREGT, 3RD MARDIV (HI)	2	1	2						2			
N2409	HQBTRY, ARTYBN, ARTYREGT, 4TH MARDIV	2	5	10								10	
ACE – WING HQ – Rationale: One server to support SECRET and one server to support UNCLASS at each airfield (2 per DET).													
N8652	AIRFIELD DET, MWCS, MACG, 3D MAW	8	2	16				16					
N8652	AIRFIELD DET, MWCS, MACG, 2D MAW	8	2	16					16				
N8652	AIRFIELD DET, MWCS, MACG, 1ST MAW	8	1	8						8			
N8652	AIRFIELD DET, MWCS, MACG, 4TH MAW	8	1	8								8	
MACS – Rationale: One server to support the TAOC.													
N8631	AIRFIELD DET, MWCS, MACG, 1ST MAW (MACS-4)	1	1	1							1		
N8631	AIRFIELD DET, MWCS, MACG, 4TH MAW (MACS-23)	1	1	1								1	
N8631	AIRFIELD DET, MWCS, MACG, 4TH MAW (MACS-24)	1	1	1								1	
MACS (REIN) – Rationale – One Server to support each TAOC Det, one server to support EWC.													
N8641	HQ, MACS (REIN) MACG, 3D MAW	3	1	3				3					
N8641	HQ, MACS (REIN) MACG, 2D MAW	3	1	3					3				
MASS – Rationale: One server to support SECRET.													

T/E NO.	UNIT NAME	UNIT PLANNED ALLOWANCE	MULTIPLIER	TOTAL	DELIVERY SCHEDULE								
					FY01		FY02				FY03		
					3	4	1	2	3	4	1	2	
N8660	MASS, MACG, MAW, 3D MAW	1	1	1				1					
N8660	MASS, MACG, MAW, 2D MAW	1	1	1					1				
N8660	MASS, MACG, MAW, 1ST MAW	1	1	1						1			
N8660	MASS, MACG, MAW, 4TH MAW	1	1	1								1	
MWSS (F/W) – Rationale: One server to support SECRET. TDN Server assets in support of (FW) MAG, (FW) MALS, VMFA, VMFA (AW), VMA, VMGR, VMAQ, and VMU will have their allowances loaded to T/E N8702 and receive support from the MWSS (FW) Communications Section.													
N8702	MAR WING SQDN (FW), MWSG, 3D MAW	3	2	6				6					
N8702	MAR WING SQDN (FW), MWSG, 2D MAW	3	2	6					6				
N8702	MAR WING SQDN (FW), MWSG, 1ST MAW	3	1	3						3			
N8702	MAR WING SQDN (FW), MWSG, 4TH MAW	3	2	6								6	
ROTARY WING MWSS – Rationale: One server to support SECRET. TDN Server assets in support of MAG (RW), MALS (RW), HMM, HMH, and HMLA will have their allowances loaded to T/E N8703 and receive support from the MWSS (RW) Communications Section.													
N8703	MAR WING SQDN (RW), MWSG, 3D MAW	3	2	6				6					
N8703	MAR WING SQDN (RW), MWSG, 2D MAW	3	2	6					6				
N8703	MAR WING SQDN (RW), MWSG, 1ST MAW	3	1	3						3			
N8703	MAR WING SQDN (RW), MWSG, 4TH MAW	3	1	3								3	
CSSE H&S BN – Rationale: One server to support SECRET, one server to support UNCLASS at COMM CO, one server per CSSE and MSSG COMM PLT, one server each to support Maintenance Bn, Supply Bn, Medical Bn and Dental Bn.													
N3113	COMMCO, H&S BN, 1ST FSSG	18	1	18				18					
N3213	COMMCO, H&S BN, 2D FSSG	18	1	18					18				
N3313	COMMCO, H&S BN, 3D FSSG	12	1	12						12			
B3311	DET, H&S BN, 3D FSSG	2	1	2						2			
N3413	COMMCO, H&S BN, 4TH FSSG	18	1	18								18	
SUPPORTING ESTABLISHMENTS - GENSER													
7720	MC COMM-ELEC SCHOOLS, MCAGCC, 29 PALMS, CA	6	1	6	6								
7434	HQ, MC UNIV, MCCDC, CCSS, QUANTICO, VA	2	1	2	2								
7442	MCTSSA, (MC SYSCOM) CAMPEN,CA	2	1	2	2								

T/E NO.	UNIT NAME	UNIT PLANNED ALLOWANCE	MULTIPLIER	TOTAL	DELIVERY SCHEDULE							
					FY01		FY02				FY03	
					3	4	1	2	3	4	1	2
MEF HQ – Rationale: Two servers to support SCI LAN . (Note: TDN V (2) Servers will support TS IP traffic upon initial fielding. A future upgrade is planned that will allow support for SCI IP traffic.												
N4637	H&S CO, 1ST RADIO BN, I MHG	7	1	7				7				
N4737	H&S CO, 2ND RADIO BN, II MHG	6	1	6					6			
SUPPORTING ESTABLISHMENTS - SCIINFO												
5060	MC INSTR-ADMIN W/JT SCHOOLS	1	1	1					1			
SCI TOTAL				14								
ACTIVE FORCES:												
I MEF				134								
II MEF				129								
III MEF				76								
RESERVE FORCES				97								
SUPPORTING ESTABLISHMENTS				11								
TOTAL TDN SERVERS				447								

NOTE: The information provided above is accurate as of the date of publication of the ULSS. Subsequent changes to unit allowances or deliveries are reflected through modification of quantities in the EAF.

APPENDIX C

TDN Server Components Covered by Warranty

NOMENCLATURE/DESCRIPTION	QTY	NSN/ PART NUMBER
IP Router (Configured)	1	99002B8015-2
Computer Assembly, NPE 150, 1MB SR,	1	7050-01-444-6097/NPE-150
Power Supply, Redundant	1	6130-01-452-1874/PWR-7200/2
Chassis, Electrical-Electronic, 6 Slot	1	5975-01-468-6034/02-2730073-1
CCA, I/O Controller	1	5998-01-452-1871/C7200I/O
CCA, PCMCIA Flash Memory	1	5998-01-475-8784/MEM-I/OFLC16M
CCA, 4 Port 10 Base T Module	1	5998-01-466-9325/02-2730073-4
CCA, 4 Port Serial Module	2	5998-01-468-0326/02-2730073-5
Rack, KIV-7HS 4PK, Pulse	1	3016-1
Junction Box Assembly (TFOCA)	4	99002C1601-1
Cable Assembly Interface Device, RS232 to RS530 Conversion	1	4920-01-480-0613/ IC237A
Monitor, 15" LCD	1	LCD1525V
Keyboard, Data Entry	1	7025-01-440-5622/G84-4400
Processor, HP Kayak XU	1	99002C8016-1
4/8 GB DAT HP	1	C1528K
18.0 GB Hard Drive (1 SIPRNET/1 NIPRNET)	2	D7515A
Removable Hard Drive Chassis	1	DE100I-SWU2
10/100 Ethernet Card	1	D6936A
32X CD-ROM	1	D4384A
Floppy Disk Drive	1	D2035B
PCMCIA Card Reader Data Chute	1	64113-5
SDRAM 128	1	D6523A
Switch, Ethernet (Configured)	5	99002B8010-3
Switching Group, Digital Data, 4 Port 100 Base FX	1	5895-01-465-6873/02-2730075-2
CCA, External Switch, 2 Port 100 Base FX	4	5998-01-467-1173/WS-X2922-XL-V
Wireline Interface Adapter, DNE		CV-2048M
Converter, NRZ/CDI	1	97350040
Converter, NRZ/CDI	1	97350020
Module, CV2048	2	97350002-000
Power Supply and Chassis, CV2048M	1	97350004
Media Converter, Transition Networks		
Receiver-Transmitter Light Signal, 10 Base T to 10 Base FL	2	6030-01-458-4399/ E-TBT-FRL-03
10 Base T to 10 Base 2	1	E-CX-TBT-04
UPS 1.5	1	99002C1402-1
Management Module, SNMP	1	SNMPE3
Loop Patch Panel	1	99002A1004-10

NOMENCLATURE/DESCRIPTION	QTY	NSN/ PART NUMBER
CCA, RS-530 Patch Module	14	PMM-616004 (PR)
CCA, RS-232 Patch Module	5	PMM-2(P/R)
Support, Electrical Card Holder, 18 Slot	1	5998-01-326-5792/PMCH-2
Support, Electrical Card Holder, 3 Slot	1	PMCH-2-3
Support, Electrical Card Holder, 9 Slot	1	PMCH-2-9
Patch Panel, Data Assembly	1	99002C1002-1
Patch Panel, Data Assembly	1	99002C1201-1
Patch Cord, EIA-232 to DB25, 10 ft.	1	PMPC-M-10
Patch Cord, EIA-530, 6 ft.	2	PMP-606007W
Patch Cord, RS-530, 1.5 ft.	7	PMP-61R507
Patch Cord, RS-232, 1.5 ft.	3	PMPC-1R5
Lead, Test, RS-232 Patch Cord, 4 ft.	1	6625-01-324-7525/PMPC-4
Single Entry Panel (SEP1)	1	99002C1051-1
Single Entry Panel (SEP2)	1	99002C1053-1
Signal Entry Panel (NET SEP)	1	99002C1251-1
Power Entry Panel, Auxiliary	2	99002C8013-1
Transit Cases, ECS		
Transit Case, UPS	1	99002C8004-1
Transit Case, User Access	1	99002C8004-2
Transit Case, LAN	1	99002C8003-1
Transit Case, Network Access	1	99002C8003-2
Sand-Dust Kit, LAN Access Case, Front	1	99002C1203-1
LAN Transit Case, Sand-Dust Cover, Front	1	99002C8077-1
Sand-Dust Kit, LAN Access Case, Rear		99002C1203-2
LAN Transit Case, Sand-Dust Cover, Rear	1	99002C8077-2
Fan, Sub-assembly	1	99002C1072-1
Sand-Dust Kit, Network Access Case, Front	1	99002C1203-3
Network Access Case, Sand-Dust Cover, Front	1	99002C8077-3
Sand-Dust Kit, Network Access Case, Rear	1	99002C1203-4
Network Access Case, Sand-Dust Cover, Rear	1	99002C8077-4
Fan, Sub-assembly	1	99002C1072-1
Encryption-Decryption Equipment, Taclane (KG-175) (One Per TS Variant (14 total))	1	5810-01-463-0133/ ON649470-1

APPENDIX D

Listing of Technical Publications

PUBLICATION CONTROL NUMBER	TITLE	PUBLICATION TYPE
4065544-0201	KIV-7HS, KG-84 COMSEC Module User's Guide	COTS MANUAL
24000991-000	Uninterruptible Power Supply	COTS MANUAL
SL-23131 (Rev N)	Uninterruptible Power Supply GXT-1500RTE-120 User's Manual	COTS MANUAL
TS010-886	SAM 232-100 Breakout Box	COTS MANUAL
UM 644-0106.01	ML 4400 Keyboard, Cherry Corp.	COTS MANUAL
UM 78134641	LCD 1525V Flat Panel Display User's Manual	COTS MANUAL
SL1-53034	SNMPE3 Card User's Manual	COTS MANUAL
24001092-000 (Rev A)	CV-2048-M CDI Module Operation and Maintenance Manual	COTS MANUAL
D4700-90901	Familiarization Guide, Processor, Kayak XU	COTS MANUAL
D4700-90001	Workstation User's Guide, Processor, Kayak XU	COTS MANUAL
DE100I-SWU2	Removable Wide SCSI Drive User's Guide	COTS MANUAL
TL-063-03	Inline Network Encryptor, KG-175 Operator Manual	COTS MANUAL
36025366	Operator Instructions & Interface Requirements & Setup KIV-19 Trunk Encryption Device (TED)	COTS MANUAL
7380.D	10Base-2/10Base-T Media Converter User's Guide	COTS MANUAL
33032.E.D	10Base-T/10Base-FL Media Converter User's Guide	COTS MANUAL
ADCP-50-305, 9 TH Edition	Digital Patching User Manual (Patch Modules)	COTS MANUAL
No Pub Number	CISCO 7206-CH Installation and Configuration Guide	COTS MANUAL
No Pub Number	Catalyst 2900 Series XL Installation Guide	COTS MANUAL
No Pub Number	Catalyst 2900 Series XL and Catalyst 3500 Series XL Cisco IOS Release 11.2(8.2)SA6	COTS MANUAL
No Pub Number	Quick Start: Catalyst 2900 Series XL Cabling and Setup Guide	COTS MANUAL
No Pub Number	Cisco IOS Desktop Switching Software Configuration Guide	COTS MANUAL
No Pub Number	Cisco IOS Desktop Switching Enterprise Edition Software Configuration Guide	COTS MANUAL

APPENDIX E

TDN Server IETM Configuration Management Plan

1. Recommended changes to TDN Server publications should be submitted to the Life Cycle Management Center (LCMC), Code 852, 814 Radford Boulevard, Albany, GA 31704-0320 per the procedures outlined in MCO P5215.17_. This includes recommended changes to IETMs, COTS manuals, Software Users Manuals (SUMs), and all other manuals included on the IETM CD-ROM. Information copies of NAVMC form 10772 will be provided to MARCORSSYSCOM (C4ISRComm-R), TDN/DTC Logistician, MCB Quantico, VA 22134-5010.
2. During the annual review of IETMs, the WSM (Code 847-3), Albany, GA, shall ensure the validity of all manuals on the IETM CD-ROM. This review includes COTS manuals, other services technical manuals (Army, Air Force, Navy), and the SUMs. If new manuals are required to support this equipment the WSM will coordinate with MARCORSSYSCOM (Code PSD) for the acquisition of the new publication and having it added to the Marine Corps Publication and Distribution System (MCPDS). Prior to requesting the publication be incorporated into the IETM CD-ROM, the WSM will notify LCMC (Code 852) of the requirement.
3. MCTSSA is not responsible for requests from Marine Operating Forces to make changes to the SUM. MCTSSA will direct the user to submit changes via NAVMC form 10772 to LCMC (Code 852) who will enter the change request into the NAVMC form 10772 tracking program and provide a copy to WSM (Code 847-3). LCMC (Code 852), will coordinate the resolution of the NAVMC form 10772 with MCTSSA, Box 555171, CSD, TDN Project Officer, Camp Pendleton, CA 92055-5171. If the SUM requires updating, MCTSSA will author a revision document that will be sent to LCMC (Code 852), for inclusion in the next revision of the IETM CD-ROM.
4. If a change to the IETM CD-ROM is determined at any level to be such a critical nature that it is considered an emergency, the following procedures will be followed:
 - a. LCMC (Code 852), will receive the recommended change via the electronic NAVMC form 10772 and coordinate with the WSM.
 - b. If the change is deemed critical and requires immediate action to protect personnel and/or equipment, the WSM will follow established policy in issuing a WSM Alert. After the WSM Alert is issued to Marine Operating Forces and equipment deadlined (if needed), the WSM will follow up this action by either coordinating with LCMC (Code 852), for a publication change or Modification/Supply/Technical Instruction (as appropriate).
 - c. The revised manual or new instruction will be included in the next revision of the IETM.
5. When inserting changes to the IETM CD-ROM, file names of the documents contained on the CD will not change throughout the lifecycle of the IETM, no matter how many changes take

lace. Changes or revised documents will be indicated on the first page of the document in the file.

APPENDIX F

Listing of Supporting Consumables

NOMENCLATURE	P/N	U/I
Alcohol, Isopropyl		BT
Cloth, Cleaning, Anti-Static (5 lb.)		BD
Detergent (5 lb.)		BX
Floppy Diskettes		BX
Tape (Back-up Drive)	DDS-2	EA
Tape, Cleaning (DAT8)	HP92283K	EA
Fuse, 15 Amp		EA
Sealing Compound	MILS22473/GR-T	BT
Sealing Compound	MILS22473/GR-CBL	BT
Sealing Compound	MILS22473/GR-B	BT
Air Filter, Sand-Dust Kit, Transit Case	99002C8076-1	EA
Air Filter, Sand-Dust Kit, Transit Case	99002C8076-2	EA
Lubricant (Dow-Corning G3 Anti-Seizing Compound) or equivalent		AR

APPENDIX G

Other Support Equipment

NOMENCLATURE	P/N	NSN	QTY	TAMCN
Mobile Electric Power Distribution System *	002221SL87	6110-01-272-6953		B0600
Grounding Rod, Kit	582GTEKIT		2	N/A
Grounding Strap	GS5872GD		3	N/A
Grounding Strap	GS5824GD		3	N/A
Slide Hammer, Grounding	13226E7741	5120-01-013-1676	1	N/A
Padlock, Combination *	7849937P001	5340-00-285-6523	1	N/A
Tool Kit, Hand	GTE99002C8012		2	N/A
Pouch, Tools	AD170203119-001	5140-00-329-4306	1	N/A
Socket, 7/16 Inch	B107-1	5120-00-239-0016	1	N/A
Socket, 1/2 Inch	A-A-1407	5120-00-189-8610	1	N/A
Handle, Socket	SR1-2652	5120-00-778-0583	1	N/A
Tool, Crimping, RJ-45	HT210A	5120-01-364-3963	2	N/A
Plug, Modular-RJ-45	SP5873			
Wrench, 7/16 Inch	66-128	5120-01-287-5984	1	N/A
Pliers, Diagonal Cut	D209	5120-00-935-0890	1	N/A
Pliers, Diagonal Cut	40246	5120-00-293-3486	1	N/A
Screwdriver, Cross Tip #1	B107.15TY2DEASZ1	5120-00-240-8716	1	N/A
Screwdriver, Cross Tip # 2	P12S	5120-00-498-7365	1	N/A
Screwdriver, Flat Tip	A416-4	5120-00-529-1760	1	N/A
Screwdriver, Flat Tip	133690-10	5120-00-236-2127	1	N/A
ESD Wrist strap	CP407/C6-L	4240-01-165-8865	1	N/A

* Denotes UURI

APPENDIX H

Packaging, Handling, Storage, and Transportation of CCI Equipment

The following is a quote of Section 535 of CMS-21A, Communications Security Material System Policy and Procedures Manual for the Electronic Key Management System (EKMS) for Tiers 1 and 2. It is provided here for familiarization only. Refer to the most current edition of CMS-1A or CMS-21A for current policy and procedures. CMS-1A or CMS-21A is the authority for the Navy and Marine Corps regarding packaging, handling, storage and transportation of CCI equipment.

535. CONTROLLED CRYPTOGRAPHIC ITEM (CCI)

a. Definition: A secure telecommunications or information handling equipment, or associated cryptographic component, which is unclassified but controlled. Designated items will bear the designation Controlled Cryptographic Item or CCI.

b. Accountability: CCI is centrally accountable to DCMS by serial number (AL 1) or quantity (AL 2).

c. General Access Requirements:

(1) A security clearance is not required for access to unkeyed CCI. Normally, access must be restricted to U.S. citizens whose duties require such access.

(2) Unkeyed CCI and/or CCI keyed with unclassified key marked or designated CRYPTO, must be stored in a manner that affords protection against pilferage, theft, sabotage, or tampering, and ensures that access and accounting integrity are maintained.

d. Access Requirements for Resident Aliens: Resident aliens who are U.S. Government employees, U.S. Government contractor employees, or National Guard, active duty, or reserve members of the U.S. Armed Forces may be granted access to CCI provided their duties require access.

e. Access Requirements for Foreign Nationals: Non-U.S. citizens who are employed by the U.S. Government at foreign locations where there is a significant U.S. military presence (two or more military bases) may handle CCI material in connection with warehouse functions, provided they are under the direct supervision of an individual who has been granted access to CCI material.

(1) Access to Unkeyed CCI: Access may be granted to Foreign Nationals under the following conditions:

(a) In conjunction with building maintenance, custodial duties, or other operational responsibilities that were performed by unescorted personnel in the area prior to the installation of the CCI.

(b) The CCI is installed within a U.S. controlled or combined facility with a permanent U.S. presence, as opposed to a host nation facility.

(c) Command security authority has determined that the risk of tampering with the CCI, which could result in compromise of U.S. classified or sensitive classified information, is acceptable in light of the local threat, perceived vulnerability, and the sensitivity of the information being protected as indicated by its classification, special security control, and intelligence life.

(d) The system doctrine for the CCI does not specifically prohibit such access.

(2) Access to Keyed CCI: The access requirements listed above for unkeyed CCI also apply to keyed CCI with the following additional restrictions:

(a) The non-U.S. citizens are civilian employees of the U.S. Government and are assigned to a combined facility.

(b) The non-U.S. citizens hold a clearance at least equal to the highest level of the keying material or information being processed.

(c) The CCI material remains U.S. property and a U.S. citizen is responsible for it. The presence of such installed CCIs must be verified at least monthly and the verification documented and retained in accordance with local command policy.

(d) The communications to be protected are determined to be essential to the support of a U.S. or combined operation.

(e) U.S. users communicating with such terminals are made aware of the non-U.S. citizen status of the CCI user.

NOTE: 1. Waivers to permit unescorted access by non-U.S. citizens to installed CCIs under the conditions listed above must be submitted to DCMS//20//.

2. Non-U.S. citizens in countries listed in the Attorney General's Criteria Country list may not be granted access to installed CCI equipment without approval from DIRNSA//I11//;submit requests via the Chain of Command to DCMS//20//.

f. Keying CCI:

(1) Only properly cleared and designated U.S. citizens are authorized to key CCI with classified U.S. key. Waivers of this policy must be authorized by DCMS//20//.

(2) Non-U.S. personnel are authorized to key CCI using only Allied key or unclassified U.S. key.

g. Classification of CCI When Keyed: When keyed, CCI assumes the classification of the keying material it contains, and must be handled in accordance with the control and safeguarding

requirements for classified keying material described in this manual.

h. Installing CCI in a Foreign Country: When there is an operational necessity to install and operate a CCI in a foreign country at a facility that is either unmanned or manned entirely by non-U.S. citizens, the installation must be approved, in advance, by DCMS//20//.

(1) In addition to the requirements listed above, special security measures will be required (e.g., constructing vault areas, storing CCI material in approved security containers, installing locking bars on equipment racks, installing alarm systems) to prevent unauthorized access to the CCI by non-U.S. citizens.

(2) The installation of the CCI must be accomplished and controlled by U.S. citizens who shall verify the presence of the CCI equipment at regular intervals.

i. Moving CCI to a Sensitive Environment. CCI material should not be moved from an environment where the risk of tampering by foreign nationals is acceptable, to a more sensitive environment where the risk of tampering by foreign nationals is not acceptable.

(1) When operational requirements necessitate moving CCI to a more sensitive environment, the command must send a message to DCMS//20// requesting authorization to move the material.

(2) Before moving the CCI, it must be examined for signs of tampering by qualified COMSEC maintenance personnel.

(3) Report any evidence or suspicion of tampering to DIRNSA//I413// as a COMSEC incident in accordance with Chapter 9. The affected CCI equipment shall be removed from operational use pending disposition instructions from DIRNSA.

j. Transporting Keyed/Unkeyed CCI:

(1) CCI must not be shipped in a keyed condition unless removing the key is impossible.

(2) Unkeyed CCI may be shipped/transported by any means delineated below.

k. Methods of Shipping CCI. CCI equipment must be shipped only to authorized activities using any of the following methods:

(1) Authorized U.S. Government department, service, or agency courier (e.g., Navy Supply System).

(2) Authorized U.S. Government Contractor/Company or U.S. citizen courier.

(3) U.S. Postal Service Registered mail or express mail, provided the material does not at any time pass out of U.S. postal control, pass through a foreign postal system, pass through any foreign inspection, or otherwise fall under the control of unescorted foreign nationals. When using

express mail, the shipper must obtain assurance from U.S. Postal Service authorities that the material will receive continuous electronic or manual tracking to the point of delivery. A recipient's signature must be obtained. Material must be introduced into the postal system "across-the-counter" at a U.S. Postal Service Facility; postal drop boxes must not be used.

NOTE: 1. There are certain restrictions governing the size and weight of packages that can be shipped via registered mail. Prior to shipping the CCI, check with the postal service to determine whether the shipment qualifies.

2. First, fourth, certified, insured, and parcel post are not authorized methods of shipping CCI equipment.

(4) Commercial carriers (non-military aircraft) may be used to transport CCI (includes CCI being transported in conjunction with Foreign Military Sales) within the U.S., its territories, and possessions, providing the carrier warrants in writing the following:

(a) Is a firm incorporated in the U.S. that provides door-to-door service.

(b) Guarantees delivery within a reasonable number of days based on the distance to be traveled.

(c) Possesses a means of tracking individual packages within its system to the extent that should a package become lost, the carrier can, within 24 hours following notification, provide information regarding the last known location of the package(s).

(d) Guarantees the integrity of the vehicle's contents at all times.

(e) Guarantees that the package will be stored in a security cage should it become necessary for the carrier to make a prolonged stop at a carrier terminal.

(f) Utilizes a signature/tally record (e.g., a carrier's local signature/tally form or the DD Form 1907 or Form AC-10) that accurately reflects a continuous chain of accountability and custody by each individual who assumes responsibility for the shipment while it is in transit;

OR

1 Utilizes an electronic tracking system that reflects a chain of accountability and custody similar to that provided by a manually prepared signature/tally record.

2 Ensures positive identification of the actual recipient of the material at the final destination.

3 Uses a hard-copy printout that serves as proof of service; the printout must reflect those points, during transit, where electronic tracking of the package/shipment occurred.

(5) U.S. military, military-contractor, or private air service (e.g., AMC, LOGAIR, QUICKTRANS), provided the carrier satisfies the requirements identified above for commercial non-aircraft carriers.

(6) U.S. Diplomatic Courier Service.

(7) DCS outside CONUS, when no other methods of secure transportation is available. Prior authorization must be obtained from DCS before any unkeyed CCIs are introduced into the DCS system.

(8) Commercial passenger aircraft may be used within the U. S., its territories, and possessions. Transport of CCI material outside the U.S., its territories, and possessions on a U.S. flag or any foreign-owned, controlled, or chartered aircraft, is strongly discouraged because of the threat of terrorists and the lack of U.S. control.

NOTE: Requirements/restrictions for shipping CCI on commercial aircraft are detailed in paragraph I.

(9) Non-U.S. citizens who are employed by the U.S. Government at foreign locations where there is a significant U.S. military presence (two or more military bases) may transport CCI material, provided there is a signature record that provides continuous accountability for custody of the shipment from the time of pick-up to arrival at the final destination.

NOTE: A U.S. citizen must accompany the foreign driver carrying the material; or the material must be contained in a closed vehicle or shipping container (e.g., CONEX, DROMEDARY, or similar authorized container) which is locked with a high security lock and contains a shipping seal that will prevent undetected access to the enclosed material.

I. Requirements and Restrictions for Transporting CCI on Commercial Aircraft:

(1) The container(s) and content(s) may be subject to certain security inspections, including x-ray, by airport personnel. Inspections are permissible, but only in the presence of the courier.

(2) Inspection of CCI material must be restricted to exterior examination only and conducted in the presence of the courier. To preclude unnecessary inspections by airport personnel, couriers should carry current orders, letters, and ID cards identifying them as designated couriers.

(3) CCI material must be stored in the cabin of the aircraft where the courier can maintain continuous control of the material.

(4) When the size of the CCI shipment is too large for storage in the cabin of the aircraft, the entire shipment must be packaged in a suitable container, which is secured and sealed in such a manner so that any unauthorized access to the enclosed CCI can be detected by the courier. The CCI shipment may then be shipped as checked baggage, provided the LIFO procedure is coordinated with the carrier.

m. Storage of CCI: Unkeyed CCI and/or CCI keyed with unclassified key marked or designated CRYPTO, must be stored in a manner that affords protection against pilferage, theft, sabotage, or tampering, and ensures that access and accounting integrity are maintained.

n. Packaging CCI: Package unkeyed CCI for shipment in a manner that will allow for tamper detection and prevent damage while in transit.

(1) In addition to the information required on the packaging label, include the office code or duty position title of the individual who is designated to accept custody of the CCI equipment to ensure proper delivery. Do not use the name of an individual.

(2) The shipping document must also contain an emergency telephone number(s) for the intended recipient in the event delivery is made after normal working hours.

o. Notification to Intended Recipient. Regardless of the method used to transport CCI, the transferring command must, within 24 hours of shipping, notify the intended recipient of the method of transportation and a list of CCI(s) that have been shipped.

p. Shipments not Received:

(1) If a shipment of CCI equipment has not been received within five working days after the expected delivery date, contact the originator of the shipment immediately.

(4) If the location of the shipment cannot be determined, tracer action must then be initiated. The material shall be assumed to be lost and the incident must be reported to DIRNSA FT GEORGE G MEADE MD//I413/Y265// in accordance with Chapter 9.

q. Reportable Incidents:

(1) Lost shipments, shipments that show evidence of possible tampering, and unauthorized access to CCI equipment must be reported to DIRNSA//I413/Y265//, info DCMS//20//.

(2) All other incidents involving improper shipping or handling of CCI equipment must be reported to DCMS//20//, info DIRNSA//I413//. If a commercial carrier is involved, include the name(s) of the carrier(s).

APPENDIX I

Listing of Acronyms

AC	Alternating Current
AFATDS	Advanced Field Artillery Tactical Data System
APML	Assistant Program Manager for Logistics
ATACC	Advanced Tactical Air Command Control
AUTODIN	Automated Digital Network
BIT	Built-In Test
BITE	Built-In Test Equipment
C ⁴ I	Command, Control, Communication, Computers, and Intelligence
CBT	Computer Based Training
CCI	Controlled Cryptographic Item
CCSS	Command and Control Systems School
CD-ROM	Computer Disk-Read Only Memory
CFE	Contractor Furnished Equipment
CLS	Contractor Logistics Support
CM	Configuration Management
COMMARCORLOGBASES	Commander, Marine Corps Logistics Bases
COMMARCORSSYSKOM	Commander, Marine Corps Systems Command
CONUS	Continental United States
COTS	Commercial-off-the-Shelf
CRLCMP	Computer Resources Life Cycle Management Plan
DAT	Digital Audio Tape
DCMS	Director, Communications Security Material System
DCS	Defense Courier Service
DDNS	Dynamic Domain Name Service
DHCP	Dynamic Host Control Protocol
DL	Distance Learning
DMS	Defense Message System
DoD	Department of Defense
EAF	Equipment Allowance File
ECU	Environmental Control Unit
ELMACO	Electronics Maintenance Company
EPLRS	Enhanced Position Location Reporting System
ESH	Environmental, Safety, and Health
FOT&E	Follow-on Operational Test and Evaluation
FSSG	Force Service Support Group
FY	Fiscal Year

GD-CS	General Dynamics-Communication Systems
GENSER	General Service
GFM	Government Furnished Material
GOTS	Government-off-the-Shelf
HAZMAT	Hazardous Materiel
H-HMMWV	High Mobility Multipurpose Wheeled Vehicle
HP	Hewlett Packard
Hz	Hertz
IAS	Intelligence Analysis System
ICS	Interim Contractor Support
ID	Item Designator
IDASC	Improved Direct Air Support Central
IETM	Inactive Electronic Technical Manuals
IFSAS	Initial Fire Support Automation System
IIP	Initial Issue Provisioning
I&KP	Instructor and Key Personnel
ILSO	Integrated Logistics Support Officer
INE	Inline Network Encryptor
IP	Internet Protocol
IOC	Initial Operating Capability
IOS	Internetwork Operating System
LAN	Local Area Network
LCC	Local Control Center
LIFO	Last-In First-Out
LMIS	Logistics Management Information System
LRU	Line Replaceable Unit
LTI	Limited Technical Inspection
MAGTF	Marine Air-Ground Task Force
MARCORSYSCOM	Marine Corps System Command
MARFORLANT	Marine Forces Atlantic
MARFORRES	Marine Forces Reserve
MCBul	Marine Corps Bulletin
MCCES	Marine Corps Communication-Electronics School
MCGERR	Marine Corps Ground Equipment Resource Reporting
MCO	Marine Corps Order
MCPDS	Marine Corps Publication Distribution System
MCSSC2	Marine Combat Service Support Command and Control System
MCTSSA	Marine Corps Tactical Systems Support Activity
MEF	Marine Expeditionary Force
MFT	Material Fielding Team

MILOGS	Marine Integrated Logistics System
MIL-STD	Military Standard
MILSTRIP	Military Standard Requisitioning and Issue Procedures
MIPS	Marine Integrated Personnel System
MOS	Military Occupational Specialty
MSC	Major Subordinate Command
MTP	Manpower and Training Plan
MTWS	MAGTF Tactical Warfare Simulation
NAVMC	Navy and Marine Corps
NDI	Non-Developmental Item
NET	New Equipment Training
NETT	New Equipment Training Team
NIPRNET	Non-Secure Internet Protocol Router Network
NMS	Network Management Software
NSN	National Stock Number
ORD	Operational Requirements Document
O&MMC	Operations and Maintenance Marine Corps
PHS&T	Packaging, Handling, Storage, and Transportation
PLMS	Publication Locator Management System
PLRS	Position Location Reporting System
PM	Program Manager
POA&M	Plan of Action and Milestones
POC	Point of Contact
POL	Petroleum, Oil, and Lubricants
PQDR	Product Quality Deficiency Report
PSL	Program Support Logistics
SAC	Stores Account Code
SASSY	Supported Activities Supply System
SBU	Sensitive-But-Unclassified
SCI	Sensitive Compartmented Information
SEP	Signal Entry Panels
SIPRNET	Secure Internet Protocol Router Network
SMU	SASSY Management Unit
SPEED	System Planning Engineering Evaluation Device
TAMCN	Table of Authorized Materiel Control Number
TCO	Tactical Combat Operations
TDN	Tactical Data Network
TDS	Tactical Data System
T/E	Table of Equipment
TM	Technical Manual
TMDE	Test, Measurement, and Diagnostic Equipment

TMO	Traffic Management Office
T/O	Table of Organization
TP	Technical Publication
TPF	Total Package Fielding
TR	Technical Representative
TS	Top Secret
UC	Unit Cost
UI	Unit of Issue
ULSS	User's Logistics Support Summary
UPS	Uninterruptible Power Supply
USMC	United States Marine Corps
UURI	Using Unit Responsible Item
VAC	Volts, Alternating Current
WAN	Wide Area Network
WSM	Weapon System Manager
WSSA	Weapons System Support Activity