

**Machine Foreign Language Translation
System**
(version 3.0)

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ICoE - Mil Intelligence School

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This System Training Plan (STRAP) is preliminary.
Front end analysis (mission, task, job) is ongoing. ICoE - Mil Intelligence School will amend and update this STRAP as details solidify.

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1.0 System Description

The Machine Foreign Language Translation System (MFLTS) capability will mitigate linguistic shortfalls in the Joint Force by expanding the number of languages supported within the Department of Defense (DoD) today and by increasing the number of required language translation points of presence to meet the speech and text translation requirements for current, impending, and unforeseen operations. MFLTS will complement linguists and enable non-linguists regardless of domain; however, MFLTS will focus primarily on low-level linguistic tasks. MFLTS will support rapidly deploying forces, Special Operations Forces (SOF), and first responders when linguistic support is minimal or unavailable. MFLTS will provide deployed forces the ability to conduct rudimentary cross-lingual communications in cooperative and non-cooperative environments anywhere in the Joint Operational Environment.

MFLTS will consist of language software modules that are integrated, scalable, interoperable, user-friendly, easily deployable, and available at all echelons. MFLTS will provide machine foreign language translation services through the DoD Information Enterprise (DoDIE) via various web-based interfaces as well as software MFLTS applications for use on mobile and portable automation systems. MFLTS will be interoperable with joint, commercial off the shelf (COTS), or government off the shelf (GOTS) automation equipment to include the Net Enabled Command Capability (NECC), the Distributed Common Ground System (DCGS), Mission Command System (MCS), Nett Warrior, DoD Intelligence Information Systems (DoDIIS) and any associated devices and peripherals. MFLTS users will be able to access additional linguistic resources such as new language modules or updates to existing downloaded and locally stored language modules using reach-back through the DoDIE. A language module will consist of translation engines, dictionaries for English and target language, and domains required to conduct speech and text translation. Language modules are not 'one-size fits all' and consequently will vary by platform, purpose, solution provider, operating system, and software application. Language modules will enable systems to perform speech and text translations of foreign languages in spoken, handwritten, printed, or electronic text format to and from English.

The MFLTS Program shall provide a two-way speech to speech (S2S) translation capability; a two-way text to text (T2T) translation capability for printed and electronic text; follow-on capabilities will allow for one-way text to speech (T2S) translation capability and a speech to text (S2T) translation capability. MFLTS shall create prioritized speech language modules and text modules as established by the Defense Language Steering Committee (DLSC) and the MFLTS General Officer Steering Group (GOSG) annually. Because foreign language translation requirements are inextricably linked to current operational and projected strategic requirements,

development and delivery of language modules shall be subdivided into initial capability, prioritized follow-on capability and technology improvements to preserve current operational relevance.

MFLTS will support all phases of Joint, Interagency, Intergovernmental, Multinational (JIIM), and homeland security operations from planning and initial entry through conflict/event termination and redeployment. MFLTS will initially support the accomplishment of checkpoint operations and base security with follow on domains including convoy operations, internment and detention, combat lifesaving, and other domains as defined by combatant commanders. The term "domain", as employed by the MFLTS program, refers to a specific set of tasks for which there is a specified lexicon.

First Unit Equipped (FUE) is not yet determined, however the first software package is expected to be developed to support the Nett Warrior, and is expected by 1QFY16.

2.0 Target Audience

The target audience is Military Occupation Specialty (MOS) immaterial; however, MFLTS will be deployed on host systems that are MOS-specific systems such as DCGS-A and Counterintelligence Human Intelligence Automated Reporting and Collection System (CHARCS). Any end user with a mission requirement to operate in a multi-lingual situation may have the requirement to utilize MFLTS. MFLTS causes no increase in force structure.

3.0 Assumptions

- The embedded tutorial will be sufficient to train any user on MFLTS Software functionality, as is stated in Key Performance Parameter (KPP) 4 in the Capability Development Document (CDD).
- Programs that incorporate MFLTS software as part of their system will develop and implement any host system specific training required, such as accessing/operating MFLTS software within their system environment and tactics and techniques for using MFLTS to support their specific mission.
- MFLTS Materiel Developer (MATDEV) will assist host system Program Managers in determining specifications of required peripherals when necessary.
- Interactive Multimedia Instruction (IMI) development is based on task and skill analysis and is accessible through exportable media. IMI will be available as either web-based training or computer-based training.
- IMI is not required for operators if users have access to the actual MFLTS software.
- The Product Director (PD) will provide funds to support Training Developer (TNGDEV) participation in training development, Integrated Logistics and Sustainment (ILS) meetings, in-process reviews, Instructor and Key Personnel Training (IKPT) (if deemed required), developmental/operational test training, and test certification.
- The Capability Developer (CAPDEV) and TNGDEV with support from the MATDEV, will develop and store the critical task list and lesson plans in the Army approved training development database (i.e. Training Development Capability TDC)).
- The proponent TNGDEV will verify and approve all tasks and training materials.
- MFLTS shall use multi-media and help programs for an onboard tutorial. The tutorial products will reside on the system and incorporate learning checks at critical points. Critical tasks trained by the tutorial will include, when performed at the user level:
 - Language selection
 - Acquiring and installing language modules
 - Procedures to conduct T2T translation, S2S translation; and as follow on capabilities S2T translation, T2S translation,
- If a unit determines a need for MFLTS and already possesses a host platform, PD

MFLTS will provide the software and a Software Users Manual (SUM) to that unit. Unit is responsible for the loading of MFLTS on the host platform.

- Life Cycle Support includes but is not limited to training software products that are designed and developed in a reusable and maintainable format such as Defense Information Initiative Common Operating Environment (DII-COE) and Sharable Courseware Object Reference Model (SCORM) compliant. SCORM is a DoD mandated initiative for courseware that is sharable, reusable, interoperable, and retrievable. Courseware will be SCORM compliant.

- The design and development of onboard tutorials and Distributed Learning (DL) products will implement accepted DoD standards such as ADL/SCORM, Joint Technical Architecture-Army (JTA-A), Army Training Information Architecture-Migrated (ATIA-M), and Common Training Instrumentation Architecture (CTIA).

4.0 Training Constraints

Constraint	Impact	Solutions
Practical exercise using MFLTS software and host system hardware for S2S translation cannot be accomplished without a target language source. Access to target language linguists/translators maybe severely limited at the unit level.	Users will not be as effective performing S2S tasks without experience performing those tasks in a realistic environment, using the given language module, with actual speech in that language.	Video Teleconferencing with linguists, translators, or native speakers. Accessing recordings in the target language. Use of target language speakers in CTCs.

5.0 System Training Concept

The Active and Reserve Component will utilize the same training concept. The PD will develop training for the MFLTS software only. Training will include the embedded tutorial, Training Support Package - compliant with TR 350-70 and Adaptive Learning Model (ALM) - and associated Software User Manuals (SUM). The MFLTS MATDEV only delivers software, and any associated hardware will be provided by host systems. IAW training KPP 4, the MFLTS software includes embedded training that trains any user within 60 minutes without the need for an instructor. Training for Institutional, Operational, and Self-Development consists of utilizing the embedded tutorial. All locations can either load MFLTS software on existing classroom platforms or War-fighting hardware (e.g. CHARCS, DCGS-A, Nett Warrior). All locations should coordinate with the MATDEV to ensure MFLTS operates on host hardware. PD MFLTS is not responsible for any host system training.

Due to the simplicity of the capability and embedded tutorial, it is expected that there will be no need for institutional instructor training, specific unit training, or unique self-development training. Users only need to activate the embedded tutorial to learn usage of the software capabilities. The embedded tutorial available at program startup will train the core capability of the MFLTS system. This includes robust help screens and a walk through of all operator accessible capabilities. The TSP will be used to supplement and sustain training and will be accessible via web-based or digital media.

Each Center of Excellence (CoE) will determine the depth of training for their institutional training domain.

The Army Learning Management system (ALMS) and/or the proposed online MFLTS knowledge center will host web-based training including any developed IMI and any other training products to any user with an internet connection and approved access. The development of all training and training materials will be coordinated with and verified by the proponent TNGDEV.

5.1 New Equipment Training Concept (NET)

There is no expected requirement for a stand-alone MFLTS NET. MFLTS requires a host platform and those host platforms will use the embedded tutorial to train during host system NET. Prior to host system NET, MFLTS trainers will conduct IKPT for host system instructors. During the IKPT process, the MFLTS TSP will be provided as an additional training resource. If MFLTS is not loaded on the host platform and the unit determines it requires the software, the MATDEV will ship the software and SUM to the gaining unit. The gaining unit is responsible for loading MFLTS on the host platform.

5.2 Displaced Equipment Training (DET)

Not Applicable

5.3 Doctrine and Tactics Training (DTT)

Host systems will incorporate MFLTS into their system DTT. The MFLTS TNGDEV will assist host system TNGDEV with DTT development as necessary.

5.4 Training Test Support Package (TTSP)

When required, the TNGDEV will develop, coordinate, and approve a TTSP for MFLTS operational test events. If any testing occurs, the test personnel will train utilizing the embedded tutorial and TNGDEV will certify them utilizing the TTSP. The effectiveness of the tutorial will be an integral part of the test. The TTSP consists of the following:

- Training schedule
- Programs of Instruction (POI)
- List of training devices and embedded tutorial components, if applicable
- Target audience
- Lesson Plans
- Critical Task lists
- Exams
- Field manuals or changes to Field Manuals (FM)
- Software User Manuals (SUM)
- Certification plan

The TTSP outlines the method and procedures to evaluate and certify individual and collective pre-assessment training (who, where, and how training is to be certified). The TTSP includes the training for system operation, current and emerging doctrine, and maintenance. Final TTSP preparation follows instructor/facilitator and key personnel training. The TTSP is revised before each operational test unless the institution determines that the TTSP is not required. TNGDEV prepares initial and final TTSP submissions and obtain approval from the commander/commandant or their designated O-6 representative. The initial TTSP will be provided to the test agency NLT nine months (270 days) before test and the final will be provided NLT 60 days before test player training. (Reference TRADOC REG 350-70 Para 8-3 - 6 DEC 11).

6.0 Institutional Training Domain

6.1 Institutional Training Concept and Strategy

The PD will notify the CoEs and schools of MFLTS availability, along with the hardware requirements. If a unit is not designated to by DA to be fielded MFLTS, institutions can request MFLTS software from the PD. These training institutions may use MFLTS software to support training exercises and incorporate it into existing training as a supporting tool at the discretion of the course manager. The PD will provide hardware specifications for each version of the software but will not provide any supporting hardware. IMI will be available for inclusion in Service Schools as determined by the school. Any service school identifying requirements for MFLTS specific training in selected courses must coordinate with the PD. When utilizing host platforms, the embedded tutorial will be the primary means of instruction. Additionally, users will be able to virtually access MFLTS training resources located within the proposed online MFLTS knowledge center. By accessing these training materials users are expected to achieve operational proficiency within the required 60 minute time period mandated by KPP 4 in the CDD.

6.1.1 Product Lines

6.1.1.1 Training Information Infrastructure

The training information infrastructure for MFLTS will conform to both joint and Army architectures and standards (i.e. CTIA, ATIA-M, Live, Virtual, Constructive-Integrating Architecture (LVC-IA), DoD Information Technology Standards and Profile Registry (DISR)) that enable the development, storage, retrieval, delivery, and management of training products and information for use by individuals, units, and institutions worldwide.

6.1.1.1.1 Hardware, Software, and Communications Systems

Not Applicable

6.1.1.1.2 Storage, Retrieval, and Delivery

All required training products (individual tasks, collective tasks, drills, Training Support Packages (TSP), and Combined Army Training Strategy (CATS)) will be developed, maintained and stored in the Training Development Capability (TDC) or the current Army approved automated system. When approved in TDC: the TSP will be uploaded into Central Army Registry (CAR); the tasks will be uploaded into Digital Training Management System (DTMS); and the CATS will be uploaded into CATS. CAR, DTMS, CATS and knowledge sites are linked to the Army Training Network (ATN).

6.1.1.1.3 Management Capabilities

Not Applicable

6.1.1.1.4 Other Enabling Capabilities

Not Applicable

6.1.1.2 Training Products

6.1.1.2.1 Courseware

Courseware will include all tasks required to operate and employ the software effectively. Courseware will undergo validation and the TNGDEV will verify it prior to use. Courses will be available in IMI as either computer based training in a stand-alone digital media format or as web-based training hosted on a training resource website. Courseware will comply with the SCORM.

The PD, in conjunction with the TNGDEV, will develop IMI and it will be available as either web-based or computer-based, which will supplement training at the unit level.

6.1.1.2.2 Courses

Selected leader courses, to be determined by each proponent school, will include an MFLTS overview.

Initial Military Training (IMT) courses may include MFLTS training when incorporated into host platforms as part of training on those systems. MFLTS training is currently expected to be included in initial entry end user training on the Nett Warrior.

Any course including training of a host system with MFLTS installed may include training on MFLTS either supported by the embedded tutorial or developed from the TSP.

6.1.1.2.3 Training Publications

Proponent organizations will review and update FMs, Mission Training Plans (MTPs) and Soldier Training Publications (STPs) as needed to include employment of MFLTS capability.

6.1.1.2.4 Training Support Package (TSP)

The MATDEV develops the TSP and TNGDEV supports the PD during the verification process. The PD will ensure that the TSP is an integral component of the software design and will ensure that the TSP is developed and reviewed during an In-Process Review (IPR) and Validation and Verification (V&V) process. The PD will produce and distribute updates and changes to the TSP as required. The TSP will reside on the host system and at the online MFLTS knowledge center as well as on digital media. The TSP will include all training products and IMI developed for MFLTS. The TSP IMI training modules will consist of a blend of embedded tutorial and web-based training capabilities, troubleshooting procedures, and employment. Training managers will have access to the TSP as needed.

The TSP is an integral component of the training function at all levels including sustainment and institutional training as required. The TSP will be compliant with the Analysis, Design, Develop, Implement, and Evaluate (ADDIE) Process and will be completed using the ATIA-M TDC database. The planned elements of the TSP include a syllabus or outline, coursework or training materials, lesson plans, programs, POI, SUM, examinations, and training critique forms. TSPs will be produced in both digital and hard copy formats and will be distributed to users as the software is delivered initially during the fielding process and subsequently as updates and changes occur to maintain the TSP. The PD will develop the TSP with the assistance of, and in coordination with, the TNGDEV.

6.1.1.3 TADSS

6.1.1.3.1 Training Aids

Not Applicable

6.1.1.3.2 Training Devices

Not Applicable

6.1.1.3.3 Simulators

Not Applicable

6.1.1.3.4 Simulations

Not Applicable

6.1.1.3.5 Instrumentation

Not Applicable

6.1.1.4 Training Facilities and Land

No new or updated requirements exist for MFLTS. Current facilities and land are sufficient.

6.1.1.4.1 Ranges

Not Applicable

6.1.1.4.2 Maneuver Training Areas (MTA)

Not Applicable

6.1.1.4.3 Classrooms

Not Applicable

6.1.1.4.4 CTCs

Not Applicable

6.1.1.4.5 Logistics Support Areas

Not Applicable

6.1.1.4.6 Mission Command Training Centers (MCTC)

Not Applicable

6.1.1.5 Training Services

Each CoE is responsible for providing management, acquisition and general support services related to training.

6.1.1.5.1 Management Support Services

Not Applicable

6.1.1.5.2 Acquisition Support Services

Not Applicable

6.1.1.5.3 General Support Services

Not Applicable

6.1.2 Architectures and Standards Component

Institutions training host systems will use the embedded tutorial, developed for each version of the software, as determined by those institutions. The MFLTS TNGDEV will assist institutional host system trainers with DTT development into host system training, as well as, inclusion into leader courses, as needed. The following are the architectures that will provide the means to ensure integration interoperability. See Appendix A of the CDD for all architectures products.

6.1.2.1 Operational View (OV)

MFLTS will provide low level translation capabilities where human interpreters are not available. Institutional training will consist of system overview presented at leader courses. The individual or institution can use IMI - for example web-based and computer based training products. Additionally, users will have access to Language Modules and the TSP to supplement training. The users can access these resources either locally or via the network. Course managers can obtain MFLTS software for installation on existing supporting hardware upon request.

MFLTS Institutional Training OV-1

g Classrooms

dual Centers of Excellence (COE)

Computer-Based Training

Computer-Based Training

Overview at leader courses

Standard system tutorial

Media/help programs



Mobile



Portable

Unit determined platform

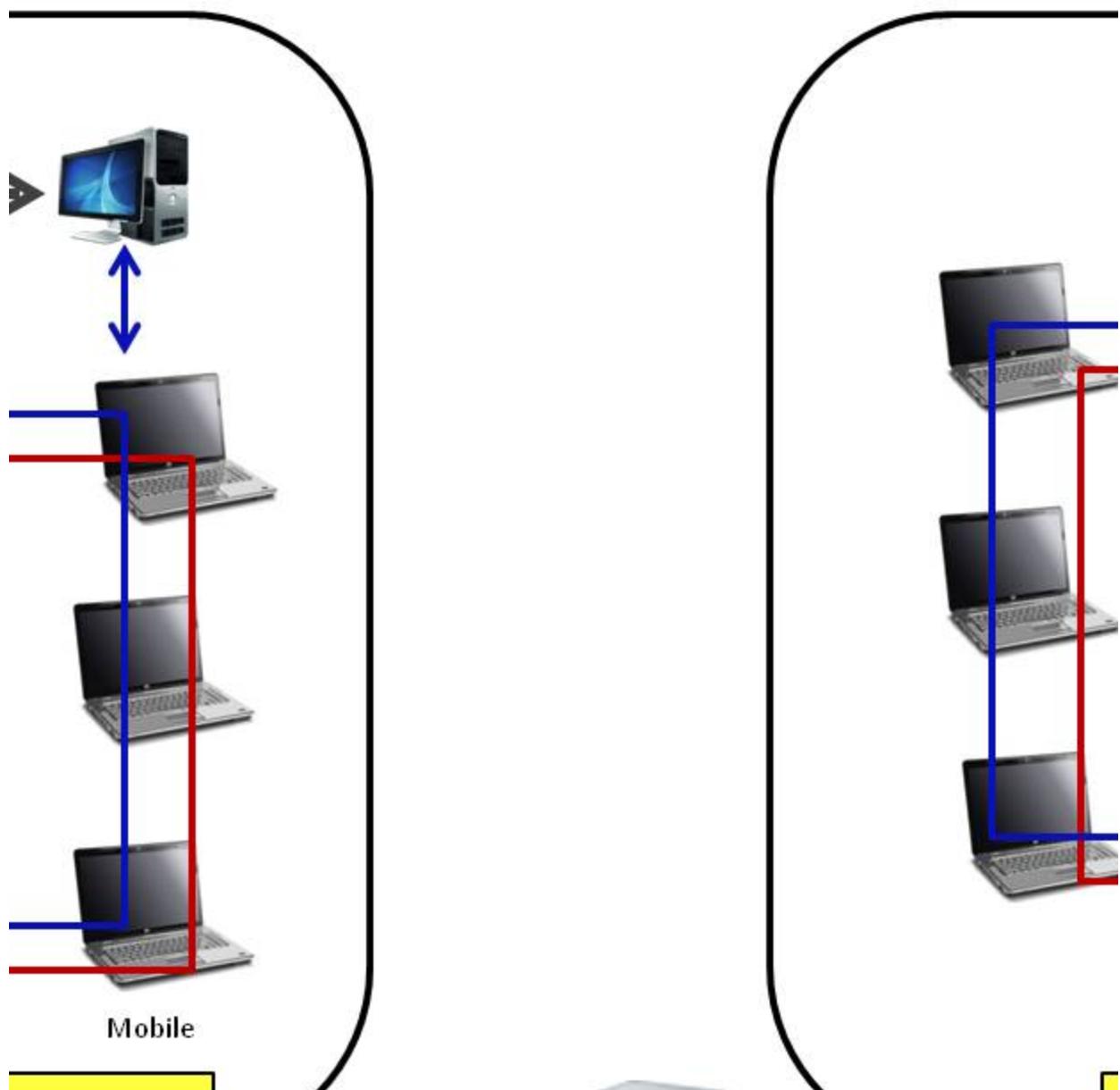
Any Classroom



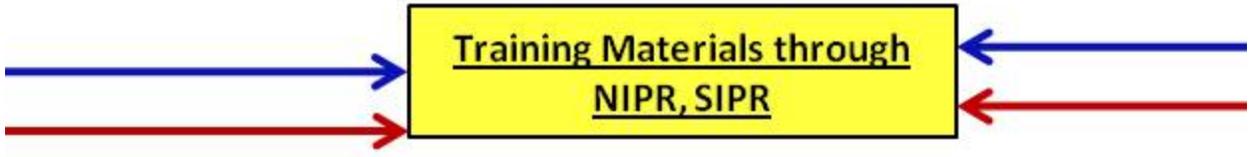
6.1.2.2 Systems View (SV)

MFLTS software will include an embedded tutorial which will be sufficient for first time users as well as sustainment training. MFLTS enabled systems with network connectivity will also have access to updates, language modules, and IMI made available from the MFLTS support structure (composition to be determined). Any authorized user will be able to access IMI remotely via a network connection. Stand alone systems will require shipment of updates and language modules, temporary connection to systems with connectivity or transfer via portable storage from systems with connectivity.

MFLTS Institutional Training SV-1



e (COE)



6.1.2.3 Technical View (TV)

Not Applicable

6.1.3 Management, Evaluation, and Resource (MER) Processes Component

6.1.3.1 Management

The following paragraphs that are applicable have been populated.

6.1.3.1.1 Strategic Planning

Not Applicable

6.1.3.1.2 Concept Development and Experimentation (CD&E)

The Sequoyah Foreign Language Translation System ICD, dated 13 June 2005, was used to address all identified DOD capability gaps that pertained to performing translation tasks in various operating environments. A Functional Solutions Analysis (FSA) was conducted as part of the Capabilities Based Analysis (CBA) to determine likelihood of mission success and the overall impact these approaches played on the previously prioritized capability gaps.

6.1.3.1.3 Research and Studies

Not Applicable

6.1.3.1.4 Policy and Guidance

AR 350-1 Army Training and Leader Development (18 Dec 2009)

AR 350-38 Policies and Management for Training Aids, Devices, Simulators and Simulations (28 Mar 2013)

TRADOC Regulation 350-70, Army Learning Policies and Systems (6 Dec 2010)

TRADOC Pamphlet 350-70-10 Systems Approach to Training Course and Courseware Validation (29 Mar 2004)

TRADOC Pamphlet 350-70-2 Multimedia Courseware Development Guide (26 Jun 2003)

TRADOC Pamphlet 350-70-12 The Army Distributed Learning (DL) Guide (3 May 2013)

TRADOC Pamphlet 525-8-2 w/Change 1 The U.S. Army Learning Concept for 2015 (6 Jun 2011)

6.1.3.1.5 Requirements Generation

Mission Needs Statement (MNS): Feb 03

Initial Capabilities Document (ICD): Jun 05

Capability Development Document (CDD), JROC approved: Dec 08

6.1.3.1.6 Synchronization

Not Applicable

6.1.3.1.7 Joint Training Support

System operational and training requirements are JROC approved. All services will be able to virtually access the IMI and other training products located at the online MFLTS knowledge center. As required by KPP 4 in the CDD, the embedded tutorial will be resident in all MFLTS software and be sufficient to support initial and sustainment training of all users.

6.1.3.2 Evaluation

The following paragraphs describe the institutional evaluation process.

6.1.3.2.1 Quality Assurance (QA)

Not Applicable

6.1.3.2.2 Assessments

The proponent TNGDEV will conduct periodic training assessments in the form of surveys and self-assessments. Assessments may be required with each modification of the systems' user interface and for each platform or capability.

6.1.3.2.3 Customer Feedback

The proponent TNGDEV will conduct surveys targeted at users and supervisors on the effectiveness of onboard and distributive training. Users will also have access to forums set up for feedback and lessons learned which will be available for monitoring by PD, TCM and TNGDEV.

6.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

The proponent TNGDEV will conduct AARs to assist in the evaluation of the tutorial. The TNGDEV and the PD will solicit lessons learned from the users throughout the life of the program and maintain the results at a program supported website.

6.1.3.3 Resource

The PD will fund the TNGDEV to attend and support events requiring their participation. Such events include, but are not limited to planning meetings, working groups, and initial fielding events. Manning requirements are not yet determined. Minimum requirements are expected to be one man year for TNGDEV support for each year of program development. Resources identified are expected to support Institutional, Operational, and Self-Development Training Domains. Support for the Operational Training Domain will require the greatest portion.

Resource requirements are identified in paragraph 7.1.3.3. No institutional training separate from an application within a host system is planned at this time. No costs other than that associated with development of the onboard tutorial, which is sufficient to train any end user in the institutional environment, are expected.

7.0 Operational Training Domain

The following sections (7.1 thru 7.1.3.3) explain the Operational Training Domain requirements for MFLTS.

7.1 Operational Training Concept and Strategy

There is no expected requirement for a stand-alone MFLTS NET.

The unit is responsible for sustaining proficiency in MFLTS tasks. The units can use the embedded tutorial on the systems and the TSP to support sustainment training. Units can access the operator training through IMI products as web-based and computer based training, as well as the onboard tutorial. Incorporation of DTT, as it relates to MFLTS, will be the responsibility of the host system platform trainers. Units are responsible for training, tracking, and maintaining a comprehensive training program to ensure Soldiers arriving at the unit, without previous training on MFLTS are identified and trained.

7.1.1 Product Lines

7.1.1.1 Training Information Infrastructure

The training information infrastructure for MFLTS will conform to both joint and Army architectures and standards (i.e. CTIA, ATIA-M, LVC-IA, DISR) that enable the development, storage, retrieval, delivery, and management of training products and information for use by individuals, units, and institutions worldwide.

7.1.1.1.1 Hardware, Software, and Communications Systems

Not yet determined.

7.1.1.1.2 Storage, Retrieval, and Delivery

All required training products (individual tasks, collective tasks, drills, TSPs, and CATS) will be developed, maintained, and stored in the TDC or the current Army approved automated system for delivery to the operating forces through the Digital Training Management System (DTMS).

7.1.1.1.3 Management Capabilities

Army Learning Management System (ALMS) and the Distributed Learning System will provide management capabilities. The DTMS will be the primary means used for the delivery of training products (individual tasks, collective tasks, drills, TSPs, and CATS) to the operating force.

7.1.1.1.4 Other Enabling Capabilities

Not Applicable

7.1.1.2 Training Products

The following paragraphs, that are applicable, explain the training products that MFLTS will require in the Operational Training Domain.

7.1.1.2.1 Courseware

All training will be available in IMI as either computer based training in a standalone digital media format or as web-based training. Courseware will comply with the SCORM. The primary means of delivery is web based training and embedded tutorial.

7.1.1.2.2 Courses

Training modules developed by the TNGDEV will include operation of the software, procedures for obtaining and installing language modules, and module specific training.

7.1.1.2.3 Training Publications

Proponent organizations will review and update FMs, CATS and STPs as needed to include employment of MFLTS capability. The Training Development and Integration Development (TDID), with support from the operational unit, is responsible for making changes or updating a unit's CATS.

7.1.1.2.4 TSP

The MATDEV will produce the TSP which will be verified by TNGDEV. The TSP developed for the test will be the foundation of the TSPs used for the operational training. The TSP will be compliant with the ADDIE Process and will be completed using the ATIA-M (i.e. TDC) or follow-on system database. The planned elements of the TSP include a syllabus or outline, coursework or training materials, lesson plans, programs, POI, examinations, and training critique forms. The technical manual or software user manuals/guides will be used with the TSP in the instruction process. TSPs will be produced in both digital and hard copy formats and will be distributed to users as the software is delivered initially during the fielding process and subsequently as updates and changes occur to maintain the TSP. The PD will develop the TSP with the assistance of, and in coordination with, the TNGDEV. The PD will ensure that the TSP is an integral component of the software design and will ensure that the TSP is developed and reviewed during an IPR and V&V process. The PD will validate and the TNGDEV will verify the TSP during the design process. The PD will produce and distribute updates and changes to the TSP as the software evolves and as changes to training and training materials are identified. Administrators and end users can access the TSP through the internet, from the online MFLTS knowledge center as guidance for training managers.

7.1.1.3 TADSS

7.1.1.3.1 Training Aids

Not Applicable

7.1.1.3.2 Training Devices

Not Applicable

7.1.1.3.3 Simulators

Not Applicable

7.1.1.3.4 Simulations

Not Applicable

7.1.1.3.5 Instrumentation

Not Applicable

7.1.1.4 Training Facilities and Land

Capability is expected to be exercised at CTCs.

7.1.1.4.1 Ranges

Not Applicable

7.1.1.4.2 Maneuver Training Areas (MTA)

Not Applicable

7.1.1.4.3 Classrooms

Current unit classrooms are sufficient to train MFLTS; no unique requirements exist because of this capability.

7.1.1.4.4 CTCs

Units with MFLTS capabilities will incorporate use of the systems in training exercises at CTCs. Units will make use of role-playing linguists or native speakers, corresponding to the area of interest, when available to support pre-deployment training. Role playing scenarios with native speakers already exist in the CTCs.

7.1.1.4.5 Logistics Support Areas

Not Applicable

7.1.1.4.6 Mission Command Training Centers (MCTC)

Not yet determined

7.1.1.5 Training Services

Each CoE is responsible for providing management, acquisition and general support services related to training.

7.1.1.5.1 Management Support Services

Not Applicable

7.1.1.5.2 Acquisition Support Services

Not Applicable

7.1.1.5.3 General Support Services

Not Applicable

7.1.2 Architectures and Standards Component

Host systems will include MFLTS as a supporting application. The tutorial will provide support for sustainment training. The training plans of the host systems will determine the structure of the sustainment training implementation. The following are the architectures that will provide the means to ensure integration interoperability.

See Appendix A of the CDD for all architectures products.

7.1.2.1 Operational View (OV)

MFLTS will provide low level translation capabilities where human interpreters are not available.

The individual or unit can use IMI - for example web-based and computer based training products. Additionally, users will have access to Language Modules and the TSP to supplement training. The users can access these resources either locally or via the network. Training managers can obtain MFLTS software for installation on existing supporting hardware upon request.

MFLTS software will be made available to Commanders for installation on existing hardware which meets minimum specifications upon request. Hardware platforms enabled with MFLTS software will complement training events incorporating foreign language role-players.

MFLTS Operational Training OV-1

Learning Classrooms

IOS

Hard system tutorial

Web-Based Training

Computer-Based Training



Mobile

Portable

Terminated platform

Any Unit
Classroom

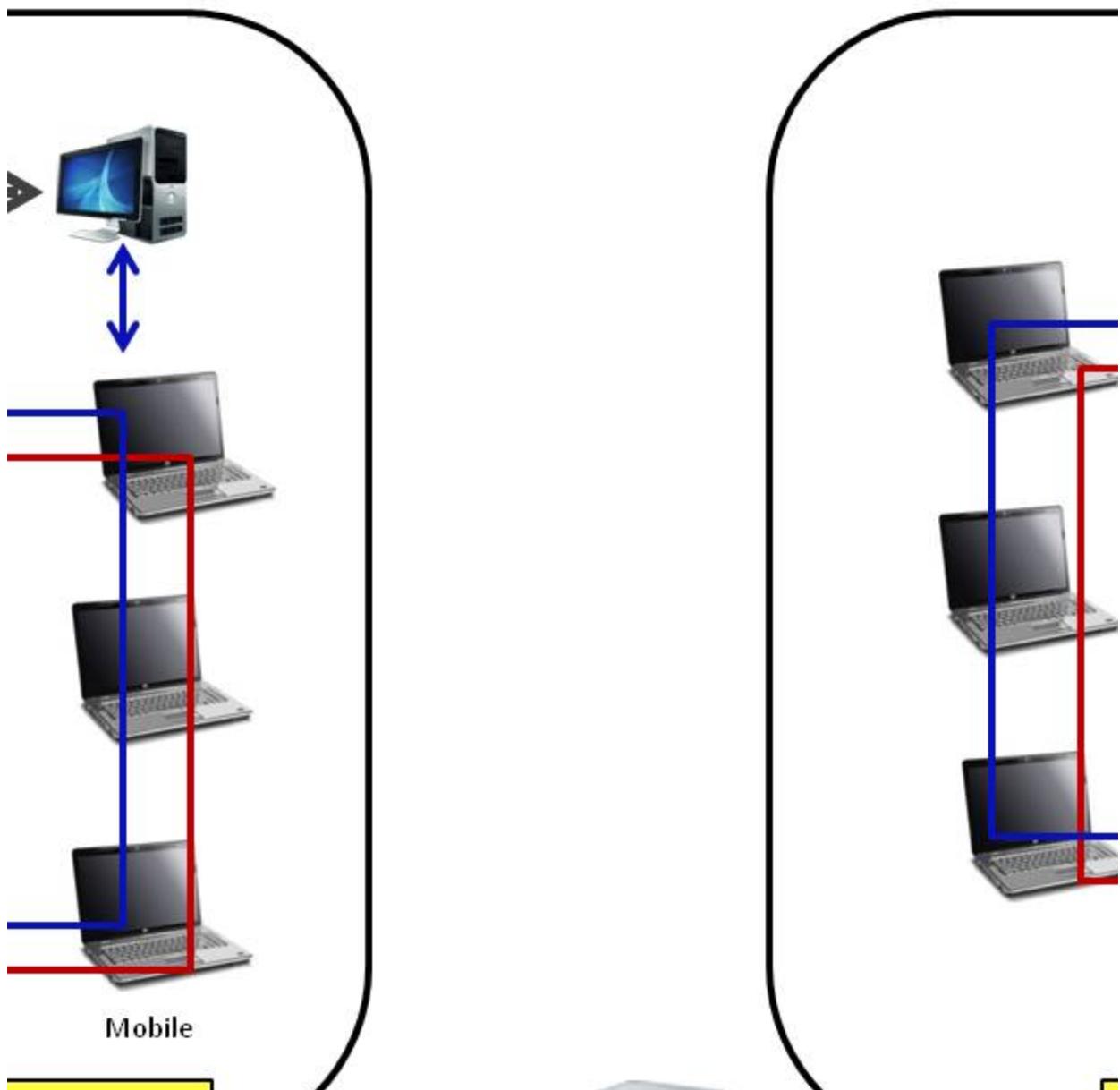




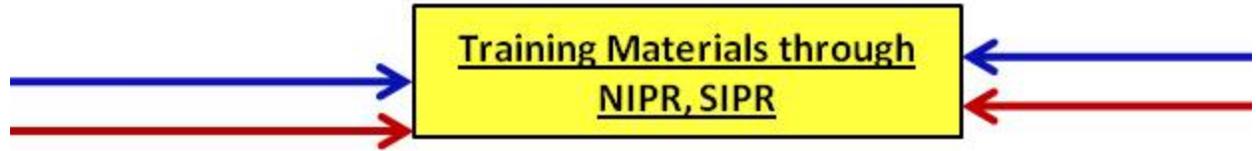
7.1.2.2 Systems View (SV)

MFLTS will be installed on various platforms throughout the DoD, with initial capability host platforms being DCGS-A CHARCS and NW. Regardless of platform, MFLTS software will include the embedded tutorial which will be sufficient for first time users as well as sustainment training. MFLTS enabled systems with network connectivity will also have access to updates, language modules, and IMI made available from the online MFLTS knowledge center (composition to be determined). Any authorized user will have access to IMI remotely via a network connection. Stand alone systems will require manual installation of any updates and additional language modules via temporary connectivity or portable media.

MFLTS Operational Training SV-1



e (COE)



7.1.2.3 Technical View (TV)

Not Applicable

7.1.3 Management, Evaluation, and Resource (MER) Processes Component

The following paragraphs that are applicable have been populated for MFLTS for the operational domain.

7.1.3.1 Management

The following paragraphs that are applicable have been populated.

7.1.3.1.1 Strategic Planning

Not Applicable

7.1.3.1.2 Concept Development and Experimentation (CD&E)

The Sequoyah Foreign Language Translation System ICD, dated 13 June 2005, was used to address all identified DOD capability gaps that pertained to performing translation tasks in various operating environments. A FSA was conducted as part of the ICD to determine likelihood of mission success and the overall impact these approaches played on the previously prioritized capability gaps.

7.1.3.1.3 Research and Studies

Not Applicable

7.1.3.1.4 Policy and Guidance

AR 350-1 Army Training and Leader Development (18 Dec 2009)

AR 350-38 Policies and Management for Training Aids, Devices, Simulators and Simulations (28 Mar 2013)

TRADOC Regulation 350-70, Army Learning Policies and Systems (6 Dec 2010)

TRADOC Pamphlet 350-70-10 Systems Approach to Training Course and Courseware Validation (29 Mar 2004)

TRADOC Pamphlet 350-70-2 Multimedia Courseware Development Guide (26 Jun 2003)

TRADOC Pamphlet 350-70-12 The Army Distributed Learning (DL) Guide (3 May 2013)

TRADOC Pamphlet 525-8-2 w/Change 1 The U.S. Army Learning Concept for 2015 (6 Jun 2011)

7.1.3.1.5 Requirements Generation

Mission Needs Statement (MNS): Feb 03

Initial Capabilities Document (ICD): Jun 05

Capability Development Document (CDD), JROC approved: Dec 08

7.1.3.1.6 Synchronization

Not Applicable

7.1.3.1.7 Joint Training Support

System operational and training requirements are JROC approved. All services will be able to virtually access the IMI and other training products located at the online MFLTS knowledge center. As required by KPP 4 in the CDD, the embedded tutorial will be resident in all MFLTS software and be sufficient to support initial and sustainment training of all users.

7.1.3.2 Evaluation

The effectiveness of the embedded tutorial will be determined through surveys and feedback forums, observation of trainees performing hands on practical exercises of all tasks. The tutorial will support sustainment training. The IMI will be evaluated for effectiveness in both sustainment and first look scenarios. AARs will be used to provide feedback and the IMI will be adjusted as necessary.

7.1.3.2.1 Quality Assurance (QA)

The TNGDEV performs assessments of the MFLTS operational training modules by individual surveys, special surveys, and classroom monitoring. Feedback will assist the proponent in correcting operational training domain deficiencies and is used to revise the training course and materials.

7.1.3.2.2 Assessments

The TNGDEV will conduct periodic training assessments in the form of training monitoring, surveys, and self-assessments. Assessments may be required with each modification of the systems' user interface and for each platform or capability.

7.1.3.2.3 Customer Feedback

The TNGDEV will conduct surveys targeted at users and supervisors on the effectiveness of onboard and distributive training. Users will also have access to forums set up for feedback and lessons learned which will be available for monitoring by PD, TCM and TNGDEV.

7.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

TNGDEV will conduct AARs at initial fielding events to assist in the evaluation of the embedded tutorial. The TNGDEV and the PD will solicit lessons learned from the users throughout the life of the program and maintain the results at a program support website. Results will be referenced when updating all training products.

7.1.3.3 Resource Processes

The PD will fund TNGDEV to attend and support events requiring their participation when in-person attendance is necessary. Such events include, but are not limited to planning meetings, working groups, and initial fielding. Manning requirements are not yet determined. Minimum requirements are expected to be one man year for TNGDEV support for each year of program development. Resources identified are expected to support Institutional, Operational, and Self-Development Training Domains. The greatest portion will be required to support the Operational Training Domain.

MFLTS Training Support Reqmt. (PD)	Resp.	FY15	FY16	FY17	FY18	FY19	FY20
		Yrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$K					
Manpower Requirements	PD	0.25M/Y	0.25M/Y	0.25M/Y	0.25M/Y	0.25M/Y	0.25M/Y
Travel and Per Diem	PD	\$5.4K	\$3.6K	\$3.6K	\$1.8K	\$1.8K	\$1.8K
Classrooms	NA						

Power (AC/DC) NA

Printing and
Distrobution NA

Fielding Site
Utilities NA

MFLTS Training Resp. FY15 FY16 FY17 FY18 FY19 FY20
Products Reqmt.

Yrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$K

TSP PD \$120K \$120K \$120K \$120K \$120K \$120K

Technical Manuals PD \$120K \$120K \$120K \$120K \$120K \$120K

IMI PD \$250K \$250K \$120K \$120K \$120K \$120K

STP PD \$20K \$15K \$15K \$15K \$15K \$15K

DTT	NSTID	1 M/Y					
-----	-------	-------	-------	-------	-------	-------	-------

Printing and Distribution	PD	0	0	0	0	0	0
------------------------------	----	---	---	---	---	---	---

Training Development	Prior	FY15	FY16	FY17	FY18	FY19	FY20
NSTID							

Yrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$KYrs or \$K

Manpower - TD

Contractor	0.25yr	0.25yr	0.25yr	0.25yr	0.25yr	0.25yr
------------	--------	--------	--------	--------	--------	--------

Civilian

Enlisted	1.0yr	0.4yr	0.4yr	0.4yr	0.4yr	0.4yr
----------	-------	-------	-------	-------	-------	-------

Warrant

Officer	0.1yr	0.1yr	0.1yr	0.1yr	0.1yr	0.1yr
---------	-------	-------	-------	-------	-------	-------

Contract/Spt

Civ Pay

Trvl/Per Diem	\$10K	\$2K	\$2K	\$2K	\$2K	\$2K
---------------	-------	------	------	------	------	------

Other

8.0 Self-Development Training Domain

8.1 Self-Development Training Concept and Strategy

The IMI developed to support sustainment training will also support self-development. It will include the fundamentals of operation including capabilities and limitations of modules in target environments. This IMI will be available on exportable media and through the web. It will be government owned or site licensed to be installed on any government owned system. DTT developed by TNGDEV will be included in the embedded tutorial and available separately. The IMI will be considered sufficient to support performance of individual tasks. The tutorial will be sufficient to support Self-Development training to any user with access to a system with MFLTS installed.

8.1.1 Product Lines

Not Applicable

8.1.1.1 Training Information Infrastructure

The training information infrastructure for MFLTS will conform to both joint and Army architectures and standards (i.e. CTIA, ATIA-M, LVC-IA, DISR) that enable the development, storage, retrieval, delivery, and management of training products and information for use by individuals, units, and institutions worldwide.

8.1.1.1.1 Hardware, Software, and Communications Systems

Personnel will require computer assets with DVD/CD readers with high speed internet connection.

8.1.1.1.2 Storage, Retrieval, and Delivery

All required training products (individual tasks, collective tasks, drills, TSPs, and CATS) will be developed, maintained, and stored in the ALMS, TDC or the current Army approved automated system for delivery to the operating forces through the DTMS.

8.1.1.1.3 Management Capabilities

Army Learning Management System (ALMS) and the Distributed Learning System will provide management capabilities. The DTMS will be the primary means used for the delivery of training products (individual tasks, collective tasks, drills, TSPs, and CATS) to the operating force.

8.1.1.1.4 Other Enabling Capabilities

Not Applicable

8.1.1.2 Training Products

8.1.1.2.1 Courseware

All training will be available in IMI as either computer based training in a standalone digital media format or as web-based training. Courseware will comply with the SCORM. The primary means of delivery is web based training and onboard tutorial.

8.1.1.2.2 Courses

Not Applicable

8.1.1.2.3 Training Publications

Proponent organizations will review and update FMs, CATS and STPs as needed to include employment of MFLTS capability. The TDID, with support from the operational unit, is responsible for making changes or updating a unit's CATS.

8.1.1.2.4 Training Support Package (TSP)

The MATDEV will produce the TSP which will be verified by TNGDEV. The TSP developed for the test will be the foundation of the TSPs used for the self-development training. The TSP will be compliant with the ADDIE Process and will be completed using the ATIA-M (i.e. TDC) or follow-on system database. The planned elements of the TSP include a syllabus or outline, course work or training materials, lesson plans, programs, POI, examinations, and training critique forms. The technical manual or software user manuals/guides will be used with the TSP in the instruction process. TSPs will be produced in both digital and hard copy formats and will be distributed to users as the software is delivered initially during the fielding process and subsequently as updates and changes occur to maintain the TSP. The PD will develop the TSP with the assistance of, and in coordination with, the TNGDEV. The PD will ensure that the TSP is an integral component of the software design and will ensure that the TSP is developed and reviewed during an IPR and V&V process. The PD will produce and distribute updates and changes to the TSP as the software evolves and as changes to training and training materials are identified. Administrators and end users can access the TSP through the internet, from the online MFLTS knowledge center as guidance for training managers.

8.1.1.3 Training Aids, Devices, Simulators and Simulations (TADSS)

8.1.1.3.1 Training Aids

Not Applicable

8.1.1.3.2 Training Devices

Not Applicable

8.1.1.3.3 Simulators

Not Applicable

8.1.1.3.4 Simulations

Not Applicable

8.1.1.3.5 Instrumentation

Not Applicable

8.1.1.4 Training Facilities and Land

Not Applicable

8.1.1.4.1 Ranges

Not Applicable

8.1.1.4.2 Maneuver Training Areas (MTA)

Not Applicable

8.1.1.4.3 Classrooms

Not Applicable

8.1.1.4.4 CTCs

Not Applicable

8.1.1.4.5 Logistics Support Areas

Not Applicable

8.1.1.4.6 Mission Command Training Centers (MCTC)

Not Applicable

8.1.1.5 Training Services

The PD, along with verification by TNGDEV, will provide all management, acquisition, and general support services related to training.

8.1.1.5.1 Management Support Services

Not Applicable

8.1.1.5.2 Acquisition Support Services

Not Applicable

8.1.1.5.3 General Support Services

Not Applicable

8.1.2 Architectures and Standards Component

The following are the architectures that will provide the means to ensure integration interoperability.

8.1.2.1 Operational View (OV)

The tutorial will be sufficient to support Self-Development training to any user with access to a system with MFLTS installed. The IMI developed to support sustainment training will also support self-development. IMI will be available as either web-based or computer-based training.

MFLTS Self-Development OV-1

Capabilities

Self training

3ased Training

User-Based Training



Mobile

Portable

Individual determined platform

User Location



8.1.2.2 Systems View (SV)

Self-Development will occur via the device's embedded training or through network connectivity to a training resource storage repository.

MFLTS Self-Development Training SV-1



Development at Any Location

8.1.2.3 Technical View (TV)

Not Applicable

8.1.3 Management, Evaluation, and Resource (MER) Processes Component

8.1.3.1 Management

The following paragraphs that are applicable have been populated.

8.1.3.1.1 Strategic Planning

Not Applicable

8.1.3.1.2 Concept Development and Experimentation (CD&E)

The Sequoyah Foreign Language Translation System ICD, dated 13 June 2005, was used to address all identified DoD capability gaps that pertained to performing translation tasks in various operating environments. A FSA was conducted as part of the ICD to determine likelihood of mission success and the overall impact these approaches played on the previously prioritized capability gaps.

8.1.3.1.3 Research and Studies

The analysis of training gaps pointed out in the ICD and MANPRINT study within the ICD will be considered for impact on training.

8.1.3.1.4 Policy and Guidance

AR 350-1 Army Training and Leader Development (18 Dec 2009)

AR 350-38 Policies and Management for Training Aids, Devices, Simulators and Simulations (28 Mar 2013)

TRADOC Regulation 350-70, Army Learning Policies and Systems (6 Dec 2010)

TRADOC Pamphlet 350-70-10 Systems Approach to Training Course and Courseware Validation (29 Mar 2004)

TRADOC Pamphlet 350-70-2 Multimedia Courseware Development Guide (26 Jun 2003)

TRADOC Pamphlet 350-70-12 The Army Distributed Learning (DL) Guide (3 May 2013)

TRADOC Pamphlet 525-8-2 w/Change 1 The U.S. Army Learning Concept for 2015 (6 Jun 2011)

8.1.3.1.5 Requirements Generation

Mission Needs Statement (MNS): Feb 03

Initial Capabilities Document (ICD): Jun 05

Capability Development Document (CDD), JROC approved: Dec 08

8.1.3.1.6 Synchronization

Not Applicable

8.1.3.1.7 Joint Training Support

System operational and training requirements are JROC approved. All services will be able to virtually access the IMI and other training products located at the online MFLTS knowledge center. As required by KPP 4 in the CDD, the embedded tutorial will be resident in all MFLTS software and be sufficient to support initial and sustainment training of all users.

8.1.3.2 Evaluation

Not Applicable

8.1.3.2.1 Quality Assurance (QA)

Not Applicable

8.1.3.2.2 Assessments

Not Applicable

8.1.3.2.3 Customer Feedback

The TNGDEV will conduct surveys, located at the proposed web-based knowledge center, targeted at users on the effectiveness of embedded and distributive training. Users accessing web-based training materials will be directed to a web link in order to obtain feedback on their learning experience and will also have access to forums set up for lessons learned which will be available for monitoring by PD, TCM and TNGDEV.

8.1.3.2.4 Lessons Learned/After-Action Reviews (AARs)

Not Applicable

8.1.3.3 Resource Processes

Not Applicable

A Milestone Annex

This annex contains one TRADOC Form 569-R-E, System Milestone Schedule - Sheet A, and a TRADOC Form 569-1-R-E's, System Milestone Schedule - Sheet B, on:

- Onboard tutorial
- IMI Courseware

<p>TRAINING DEVELOPMENT MILESTONE SCHEDULE - SHEET A</p>	<p>PAGE 1 OF 1 PAGES</p>		<p>REQUIREMENTS CONTROL SYMBOL</p>
<p>SYSTEM MFLTS</p>	<p>ACAT (Acquisition Category) ACAT III</p>	<p>OFFICE SYMBOL ATZS-TDS-N</p>	<p>AS OF DATE Mar 2014</p>
<p>POINTS OF CONTACT</p>	<p>NAME</p>	<p>OFFICE SYMBOL</p>	<p>TELEPHONE</p>
<p>MATERIAL COMMAND</p>	<p>PM MFLT, PM DCGS-A Mr. Michael Beaulieu</p>		<p>(703) 428-6748</p>
<p>TRADOC PROPONENT</p>	<p>USAICoE</p>		
<p>TCM:</p>	<p>TCM BF&MFLT Mr. Gary Jones</p>		<p>520-533-4651</p>

NETP:	TBD	PD		
SMMP	NA			
BOI Analysis	OCT 13	Mr. Tracy Blocker		520-454-1842

SYSTEM MILESTONE SCHEDULE - SHEET B		PAGE 1 OF 3 PAGES		REQUIREMENTS CONTROL SYMBOL NA													
SYSTEM: MFLTS		TRADOC SCHOOL : USAICoE		AS OF DATE : Mar 2014													
COMPLETED BY: SSG Bryan		OFFICE SYMBOL: ATZS-TDS-NS		TELEPHONE: DSN: 821-3874													
TRAINING PACKAGE ELEMENT/PRODUCT: New Equipment Training Products																	
MILESTONES BY QUARTER																	
LEGEND:		FY 14		FY 15		FY 16		FY 17		FY 18							
		1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q

COMPLETED BY: SSG Bryan	OFFICE SYMBOL: ATZS-TDS-NS	TELEPHONE: DSN 821-3874
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TRAINING PACKAGE ELEMENT/PRODUCT: Onboard Training

MILESTONES BY QUARTER

LEGEND:	FY 14				FY 15				FY 16				FY 17				FY 18			
	1Q	2Q	3Q	4Q																
Identify rqmts (RDP) 1QFY14	X																			
Submit prospectus																				
Identify resources JROC approved Dec 08																				
Critical Design review			X																	
In-Progress reviews	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Validation																				

rqmts																				
1QFY06																				
Submit prospectus																				
Identify resources																				
JROC approved																				
Dec 08																				
Critical Design review			X																	
In-Progress reviews	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Validation																				

NOTE - :

COMMENTS :

B References

- Concept of Operations: Oct 13
- Mission Needs Statement (MNS): Feb 03
- Initial Capabilities Document (ICD): Jun 05
- Capability Development Document (CDD), JROC approved: Dec 08
- NET Plan: TBD
- The Army Digital Training Strategy: Apr 02
- TR PAM 350-70-2, Multimedia Courseware Development Guide, 26 June 2003

C Coordination Annex

Organization/POC (Date)	Summary of Comments Submitted (A/S/C)			Comments Accepted/ Rejected						Rationale for Non-Acceptance - S, C
				Accepted			Rejected			
	A	S	C	A	S	C	A	S	C	
v2.2.1 Richard P Athanas 2014/07/09 - 2014/07/19	Document Accepted As Written			0	0	0	0	0	0	-
v2.2 Army - USASOC 2014/05/15 - 2014/05/30	No Comments Submitted			0	0	0	0	0	0	-
v2.2 Army - TRADOC_ARCIC 2014/05/15 - 2014/05/30	No Comments Submitted			0	0	0	0	0	0	-
v2.2 Army - TRADOC G-3/5 2014/05/15 - 2014/05/30	No Comments Submitted			0	0	0	0	0	0	-
v2.2 Army - PM DCGS-A 2014/05/15 - 2014/05/30	No Comments Submitted			0	0	0	0	0	0	-
v2.2 Army - Human Resource Command (HRC) 2014/05/15 - 2014/05/30	No Comments Submitted			0	0	0	0	0	0	-
v2.2 Army - HQDA G2	Document Accepted As									

2014/05/15 - 2014/05/30	Written	0	0	0	0	0	0	-
v2.2 Army - DAMO-TRS 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.2 Army - Combined Arms Center 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.2 Army - CAC-T; Training Management Dir 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.2 Army - ATSC TSAID 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.2 Army - Army National Guard 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.2 Army - Army Material Command (AMC), G3 2014/05/15 - 2014/05/30	No Comments Submitted	0	0	0	0	0	0	-
v2.1 Peer - CYBER CoE - Signal School 2014/04/11 - 2014/04/25	Document Accepted As Written	0	0	0	0	0	0	-
v2.1 Peer - SCoE								

2014/04/11 - 2014/04/25	No Comments Submitted			0	0	0	0	0	0	-
v2.1 Peer - MScOE - MANSCEM 2014/04/11 - 2014/04/25	2	1	1	2	1	1	0	0	0	
v2.1 Peer - MCoE - Infantry & Armor School 2014/04/11 - 2014/04/25	10	12	0	10	12	0	0	0	0	
v2.1 Peer - FCoE- ADA School 2014/04/11 - 2014/04/25	Document Accepted As Written			0	0	0	0	0	0	-
v2.1 Peer - FCoE - Field Artillery 2014/04/11 - 2014/04/25	Document Accepted As Written			0	0	0	0	0	0	-
v2.1 Peer - BCT CoE - Fort Jackson, SC 2014/04/11 - 2014/04/25	No Comments Submitted			0	0	0	0	0	0	-

Key
Completed Review with Comments
Completed Review, No Comments
Active Review Occurring



DEPARTMENT OF THE ARMY
UNITED STATES ARMY INTELLIGENCE CENTER OF EXCELLENCE
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ATZS-DCT

02 July 2014

MEMORANDUM FOR Director, New Systems Training and Integration Directorate
(ATZS-CDI-N), 550 Cibique Street, Ft. Huachuca, AZ 85613-7017

SUBJECT: Approval of System Training Plan (STRAP) for the Machine Foreign
Language Translation System (MFLTS)

1. The MFLTS STRAP is approved. Approved STRAP will be posted to the Central Army Registry (CAR) website: www.adtdf.army.mil.
2. Point of contact is Mr. Stephen McFarland, NSTID STRAP Manager, DSN 821-5387, (520) 533-5387, stephen.j.mcfarland.civ@mail.mil.

A handwritten signature in black ink that reads "Lisa K. Price".

LISA K. PRICE
COL, MI
Deputy Commander, Training