

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE	PAGE OF PAGES	
				U	1	2
2. AMENDMENT/MODIFICATION NO. 0001		3. EFFECTIVE DATE 25-Mar-2003	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)	
6. ISSUED BY VBURG CONSOLIDATED CONTRACTING ALEXANDRIA OFFICE 7701 TELEGRAPH ROAD ALEXANDRIA VA 22315-3864		CODE DACA42	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE	
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)				X	9A. AMENDMENT OF SOLICITATION NO. DACA42-03-R-0008	
				X	9B. DATED (SEE ITEM 11) 24-Feb-2003	
					10A. MOD. OF CONTRACT/ORDER NO.	
					10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE				
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS						
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.						
12. ACCOUNTING AND APPROPRIATION DATA (If required)						
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.						
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
D. OTHER (Specify type of modification and authority)						
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.						
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of this amendment is to provide information on the Pre-proposal Conference, provide responses to questions asked prior to the Conference and amend the solicitation to reflect responses to those questions. Change pages are provided as a result of the corrections. Page 50a, is added to Section H - Special Contract Requirements. Page 50a contains the Clause, PIL 2003-06, Security. As a part of this amendment, the Pre-proposal Presentation slides are incorporated. Additionally, questions that were asked at the Pre-proposal Conference are answered herein.						
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.						
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
				TEL:	EMAIL:	
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		25-Mar-2003	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

(End of Summary of Changes)



Pre-Proposal Conference
for
Combat Terrain Information Systems
Systems Engineering and Integration Services
(DACA42-03-R-0008)

Pre-proposal Conference



Agenda

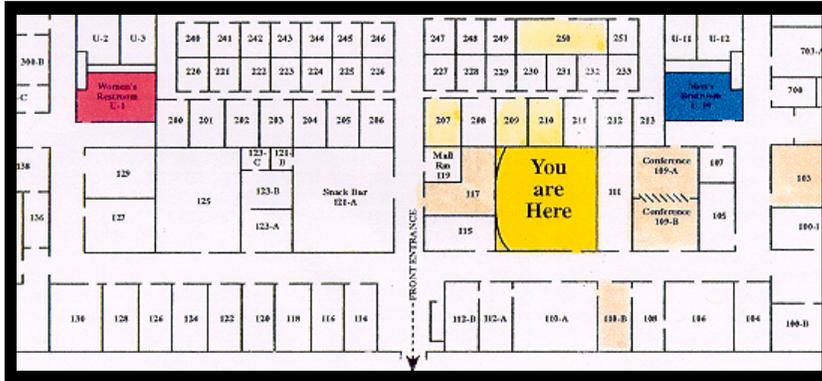
0900	Administrative	Bruce Crittenden (Contracts Specialist)
0910	Introductions	George Louie (COTR)
0915	CTIS Overview	Mark Hainsey (PD CTIS)
0945	Software Overview	Linda Graff (Software Team)
1030	Break	
1100	Answer to Offerer's Questions	George Louie
1130	CTIS Software Demonstration	Linda Graff
1200	Wrap up	Bruce Crittenden

Pre-proposal Conference

2



Administrative



- Women's Restroom – down the hall to the right
- Men's Restroom – down the hall to the left



Administrative

Additional Questions:

- All questions submitted by 12 March 2003 will be answered today.
- Additional questions may be submitted in writing at the break, and will be answered today if possible. See Bruce Crittenden for cards to submit questions.
- Any questions not answered today will be answered in writing as part of an amendment to the solicitation.

Attendance List:

- Please sign the attendance roster and verify the contact information is correct.



Introductions

Mark Hainsey..... Project Director, CTIS
 Linda Graff..... CTIS Software Team
 Ken Traveller..... CTIS Systems Development Team Lead
 Fred Pessaro..... CTIS Field Support Team Lead
 Keith Kurtz..... CTIS Interoperability Lead
 George Louie..... CTIS Contracting Officers Rep
 Bruce Crittenden..... Contracts Specialist



Combat Terrain Information Systems Overview



CTIS Software Overview

Pre-proposal Conference



Break

Pre-proposal Conference



Answer to Offerer's Questions

Pre-proposal Conference



Question:

When is Volume 6 (Past Performance) due? Clause L-3(C) states that Volume 6 is due early. However, the Solicitation does not provide a specific date for submission of Volume 6. In addition, please confirm that Past Performance Questionnaires are to be returned to the Vicksburg Consolidated Contracting Office (VCCO) by 14 April 2003 (Proposal Due Date).

Response:

Volume 6 is due on or before 4:30 PM local time, 4 Apr 2003. Earlier submission of Volume 6 will assist the Government in reducing the evaluation period but is not a requirement.

The Past Performance Questionnaires should be received at the following address by 4:30 PM local time 14 Apr 2003:

*U.S. Army ERDC
Topographic Engineering Center
ATTN: CEMVK-CT-M, Mr. Bruce Crittenden
7701 Telegraph Road
Alexandria, VA 22315-3864*

Questionnaires may be sent by e-mail to Bruce.W.Crittenden@tec02.usace.army.mil

While it is understood that the forwarding of the questionnaires is somewhat out of the offeror's control, since the questionnaires are forwarded directly to the Topographic Engineering Center by the offeror's client, it is still the offeror's responsibility. However, any questionnaires received after 14 Apr 2003 and before the actual evaluation will be considered.

Pre-proposal Conference

**Question:**

Reference Clause M.2.7.1 (Evaluation Criteria for Task Order 2 – ILS/OPA Support Task – Subfactor: Technical Approach) on Page 86 of the Solicitation. The evaluation criteria therein which addresses the “development of website, phone help and phone hotline support” seems more relevant to Task Order 1 – RDT&E than Task Order 2 – ILS/OPA. Please clarify under which Task Order an Offeror’s compliance with this requirement should be addressed.

Response:

- *The requirement for “development of website, phone help and phone hotline support” should be addressed under Task Order 0001.*
- *Associated change page(s) will be provided as part of an amendment to the solicitation..*

**Question:**

Clause L-2 requires the submission of a Small/Small Disadvantaged Business Subcontracting Plan, which will provide, among other information, the specific subcontracting goals for the three (3) individual Task Orders. Please clarify if a separate Subcontracting Plan is required for each individual Task Order or if a consolidated Subcontracting Plan, covering all three (3) Task Orders, is required.

Response:

The required Subcontracting Plan is for the contract as a whole.



Question:

CDRL A005 refers to C.6.3, but it is referenced in C.6.4. Please clarify.

Response:

- *CDRL A005 should be referenced in both sections 6.3 and 6.4.*
- *Add reference to A005 in section C.6.3 after the words "briefing packages"*
- *In CDRL A005 Block 5, add reference to C.6.4*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A006 refers to C.6.3, but it is referenced in C.6.4. Please clarify.

Response:

- *CDRL A006 should be referenced in both sections 6.3 and 6.4.*
- *In Contract Section C.6.3, insert reference to A006 after the words "meeting minutes".*
- *In CDRL A006, Block 5, add reference to C.6.4*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A007 refers to C.6.5, but it is referenced in C.6.7. Please clarify.

Response:

- *The correct reference is C.6.7*
- *In CDRL A007, Block 5, change reference from C.6.5 to C.6.7*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

On Page 19 of 88, should the 1st paragraph have CDRL A010 associated with the Prototype Demonstration Plan, instead of CDRL A009?

Response:

- *Yes*
- *Change reference on page 19 from CDRL A009 to A010.*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

On Page 19 of 88, should the 2nd paragraph have CDRL A011 associated with the Prototype Demonstration Report, instead of CDRL A010?

Response:

- Yes
- *Change reference on page 19 from CDRL A010 to A011.*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

Should CDRL A015 reference C.7.3.2?

Response:

- Yes
- *In CDRL A015, Block 5 add reference to C.7.3.2*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

Should CDRL A020 reference C.7.4.1?

Response:

- Yes
- *In CDRL A020 Block 5, add reference to C.7.4.1*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A036 refers to C.11.1, but it is referenced in C.10.4. Please clarify.

Response:

- *In CDRL A036 Block 5, change reference from C.11.1 to C.10.4*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A038 refers to C.10.1, but it is referenced in C.11.1. Please clarify.

Response:

- *In CDRL A038 Block 5, change reference from C.10.1 to C.11.1*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A041 refers to C, but it is referenced in C.11.2. Please clarify.

Response:

- *In CDRL A041 Block 5, change reference from C. to C.11.2*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

CDRL A042 states that it is “not used”, but it referenced in C.11.3. Please clarify.

Response:

- *Delete reference to CDRL A042 from section C.11.3*
- *Associated change page(s) are provided as part of this briefing package.*



Question:

CDRL A047 refers to C.11.5, but it is referenced in C.11.5.1 and C.11.5.2. Please clarify.

Response:

- *In CDRL A047 Block 5, change reference from C.11.5 to C.11.5.1, C.11.5.2*
- *Associated change page(s) are provided as part of this briefing package.*



Question:

Under Task Order 0002 (Page 12), should the Deliverables at Section 7.3 reference PA.7.3, instead of PA.7.3.1?

Response:

- *On Task Order 0002, page 12, section 7.3, change reference from PA.7.3.1 to PA.7.3*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Question:

Under Task Order 0002 (Page 16), should the Deliverable under Section 7.10.2 reference PA.7.10.2, instead of not PA.7.10.1?

Response:

- *On Task Order 0002, page 16, section 7.10.2, change reference from PA.7.10.1 to PA.10.2*
- *Associated change page(s) will be provided as part of an amendment to the solicitation.*



Wrap Up



Anticipated Amendment Release: 26 March (anticipated)

Proposal Due Date: 14 April 2003

COMBAT TERRAIN INFORMATION SYSTEMS



MARK A. HAINSEY

Project Director, CTIS

COM: 703-428-6734

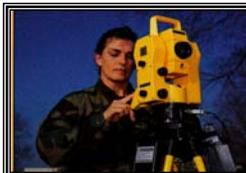
DSN: 328-6734

Fax: 703-428-6302

mhainsey@tec.army.mil

home page:

<http://www.tec.army.mil/ctis/>



CTIS Program Overview

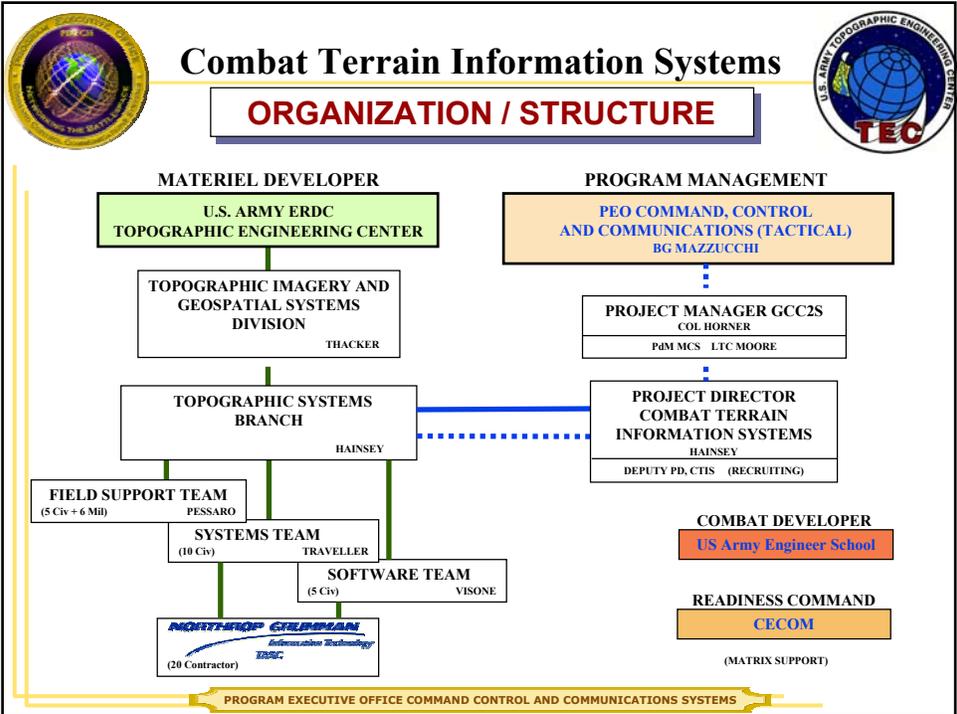


COMBAT TERRAIN INFORMATION SYSTEMS

AGENDA



- ORGANIZATION
- SYSTEM BY SYSTEM REVIEW
- “NON” SYSTEM REVIEW
- SOFTWARE
- STRYKER/OE PARTICIPATION
- SCHEDULE



COMBAT TERRAIN INFORMATION SYSTEMS
AGENDA

- ORGANIZATION
- **SYSTEM BY SYSTEM REVIEW**
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- FUNDING STATUS
- ISSUES



COMBAT TERRAIN INFORMATION SYSTEMS

Digital Topographic Support System - Light



HMMWV, Lightweight Multipurpose Shelter



FY99-02 PRODUCTION:

- 68 Systems
- Mat Rel Complete for V1
- Mat Rel Pending for V2/3
- 1st Cyclic Upgrade in FY04
(Converts Unix to Windows)

FY03 PRODUCTION:

- 15 Systems
- Completes AAO (83)



COMBAT TERRAIN INFORMATION SYSTEMS

Digital Topographic Support System - Deployable

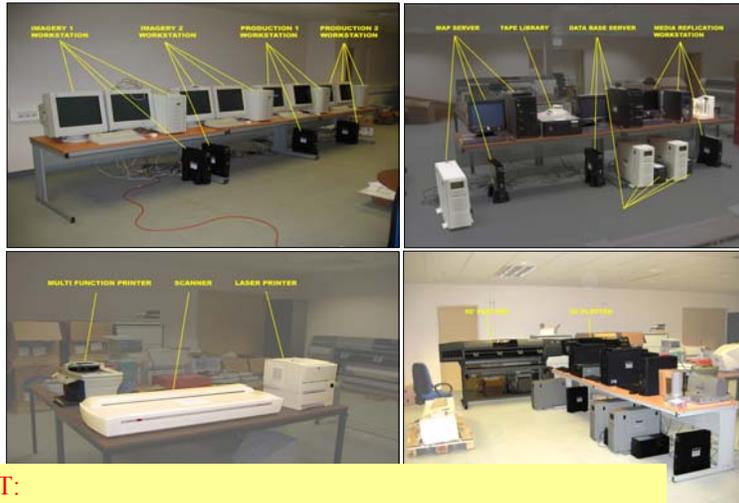


PROCUREMENT:

- 83 Systems in FY00/01
- Training Completed 3QFY01
- Windows NT Configuration
- Augments DTSS-L
- Supports Split-Based Ops
- AAO = 132 (TAA 09)



COMBAT TERRAIN INFORMATION SYSTEMS Digital Topographic Support System - Base



PROCUREMENT:

- 3 Systems in FY02/03
- USAREUR, PACOM, FORSCOM
- Supports Theater Geospatial Database Development (USAREUR/PACOM)



COMBAT TERRAIN INFORMATION SYSTEMS High Volume Map Production (HVMP) Equipment



PROCUREMENT:

- MS C scheduled for Mar 03
- AAO = 24 Systems
- Deployed at CORPS and EAC
- 2 SDD Prototypes deployed to support OEF
- Significant Funding Issue for Production



COMBAT TERRAIN INFORMATION SYSTEMS

Institutional Training Systems



National Geospatial and Imagery School

- Procured and Delivered 125 Workstations
 - 6 Classrooms of different configurations
 - 3 Advanced Classrooms
 - 1 classroom with 25 workstations
 - 1 classroom with 15 workstations
 - 1 classroom with 10 workstations
 - 3 Basic Classrooms (25 Workstations each)
- 1 Master Server with 1.4 TB RAID
- Map Server configuration
- Networked Architecture
- Build 8.0 Software to be delivered in Mar 03 to support IKPT
- Full Software upgrade planned for Summer 03

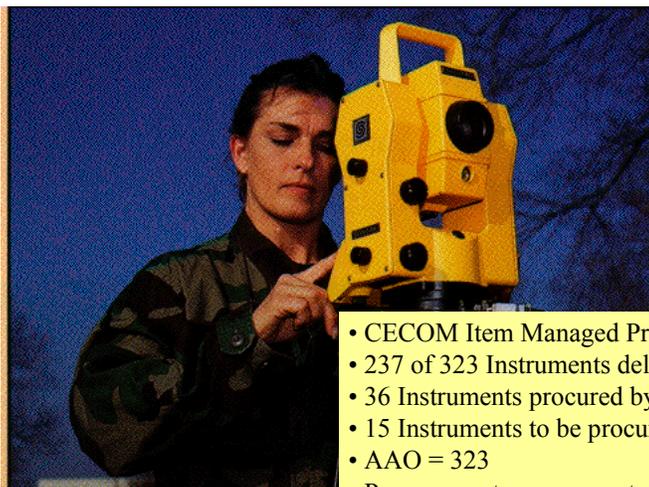


Completed in
5 months!
FY02



COMBAT TERRAIN INFORMATION SYSTEMS

Automated Integrated Survey Instrument - AISI



- CECOM Item Managed Prior to FY03
- 237 of 323 Instruments delivered to date
- 36 Instruments procured by CECOM in '03
- 15 Instruments to be procured by CTIS in '03
- AAO = 323
- Procurements are supported by Congressionally mandated funding (Trimble/OH)



COMBAT TERRAIN INFORMATION SYSTEMS AGENDA



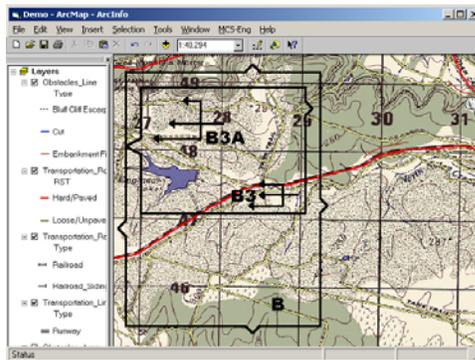
- ORGANIZATION
- SYSTEM BY SYSTEM REVIEW
- **“NON” SYSTEM REVIEW**
- SOFTWARE
- STRYKER/OE PARTICIPATION
- SCHEDULE
- FUNDING STATUS
- ISSUES



COMBAT TERRAIN INFORMATION SYSTEMS MCS –Engineer/TMFDB Functionality



- MCS-Eng Development ongoing thru end of FY03
- TMFDB/Beta MCS-Eng completed to support Operational Mission Reqmts
- 3 Workstations w/ Beta delivered to CFLCC Feb 03
- Currently working with TSM MCS to further define/refine requirements



- Provide Combat Engineers with a seamless, integrated set of tools in one easy-to-use software package that:
- Improves the efficiency in conducting Engineer command and control functions
- Supports maneuver forces during battlefield preparation and execution
- Integrates within the MCS-Light framework



COMBAT TERRAIN INFORMATION SYSTEMS

ABCS Map Server



- Currently delivered w/ Build 1.3
- Build 1.4 CDR completed 26 Feb
- Fielded to 1CD, 4ID, SBCT1-2
- All V2-3 DTSS-Ls outfitted with hardware and software for use when appropriate (3ID/OEF)

- Establishment of the Common Topographic Operating Environment (CTOE)
- Web-enabled centralized data repository for digital map and data dissemination
- Provides for the acquisition, storage, and retrieval of NIMA and Digital Topographic Support System (DTSS) imagery and map data
- Located at echelons Brigade and above
- At Division and Brigade, replicate pairs (Primary / Secondary) of the Map Server are implemented at each TOC, enabling fail-safe operation
- Secondary Map Servers on DTSS-L
- ESRI ARC IMS and SDE
- Map Server Software version 1.3 fielded



COMBAT TERRAIN INFORMATION SYSTEMS

AGENDA

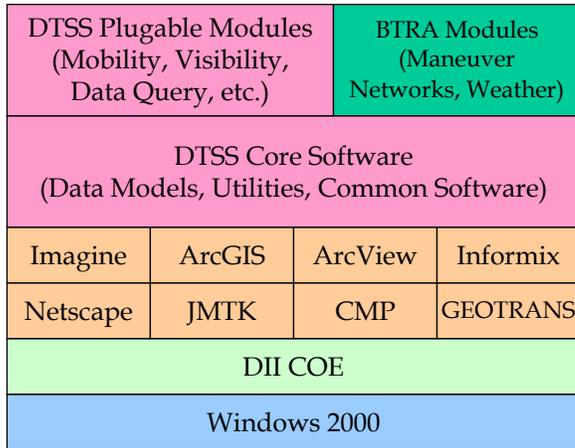


- ORGANIZATION
- SYSTEM BY SYSTEM REVIEW
- “NON” SYSTEM REVIEW
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COMBAT TERRAIN INFORMATION SYSTEMS

Build 8.0 Software Architecture



March 2003

- Three Analytic Components
- Dynamic State Environment (DS)
- Tactical Terrain Analysis (TTA)(?)
- Maneuver Prediction (MP)

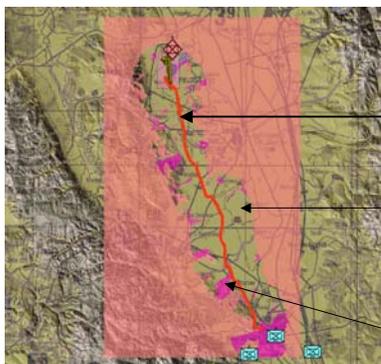


Combat Terrain Information Systems

DTSS Objective Force "First Step"



Step1 Supporting IPB



Assured Mobility route analysis
With 360° LOS from maneuver route

- COM based architectures
- CJMTK enabled
- Battlespace Terrain Reasoning and Awareness

Intelligent Maneuver Networking

- Server Based Applications
 - Enterprise GIS solutions
 - Collaborative Designs
- Spatially enabling JCDB
DTSS, MCS-Eng, BTRA



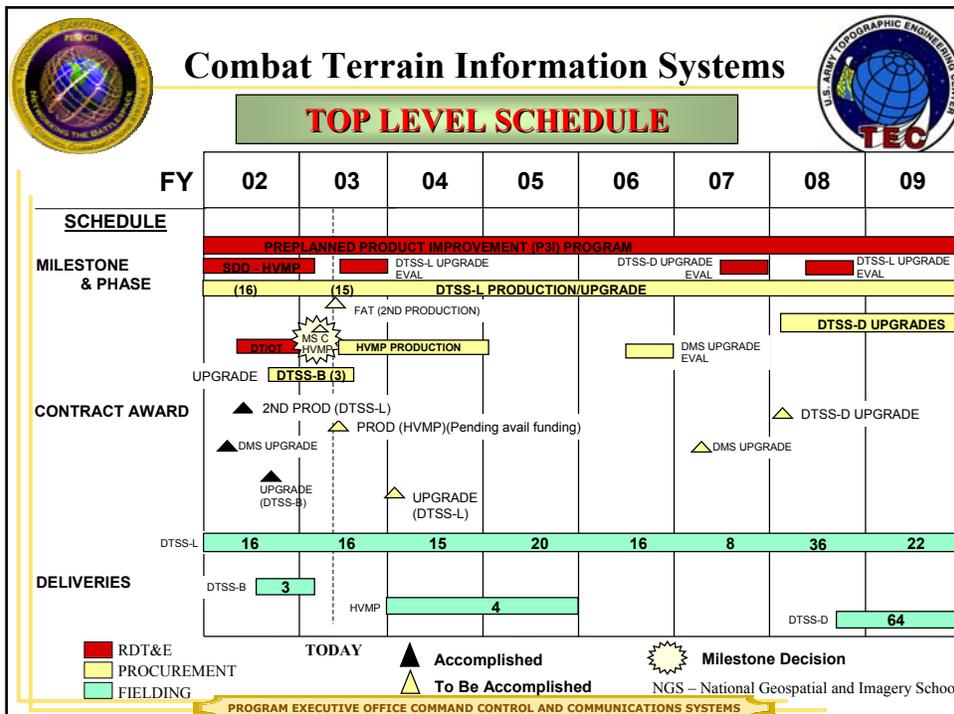
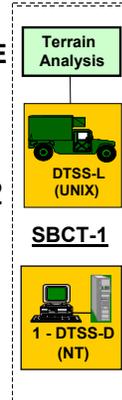
COMBAT TERRAIN INFORMATION SYSTEMS DTSS STRYKER IOT&E AND SBCT OE SUPPORT



- DTSS (from SBCT1) will be deploying in support of SBCT OE
 - 1 DTSS-L (w/map server)
 - 1 DTSS-D
- DTSS (from SBCT 2) will not be part of the Stryker IOT&E
- SW Version number planned:
 - DTSS- L ABCS 6.3.3.2
 - DTSS-D DTSS 7.1
 - Map Server 1.2
- No Open Cat 1 or 2 DRs as of 6 Feb 03
- PM rating for SW: **GREEN** G
- FUNDING STATUS: **GREEN** G

ABCS 6.3.3.2
Map Server 1.2

DTSS 7.1





Combat Terrain Information Systems

...Digitizing the Army in the Quest for Information Dominance



Digital Topographic Support System (DTSS)

Software Overview

19 March 2003

Linda Graff
(703) 428-6454
lgraft@tec.army.mil



Agenda



- DTSS Software Architecture
- DTSS Build 7
- DTSS Build 8
- Map Server
- DTSS Build 8.1
- DTSS Build 9 and Beyond
- System Constraints



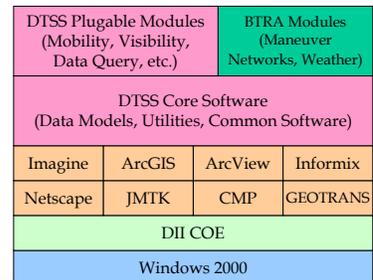
DTSS Software Architecture



- Commercial-Off-The-Shelf (COTS)
 - ESRI ArcGIS
 - ERDAS Imagine
- Government-Off-The-Shelf (GOTS)
 - ABCS Components
 - Geotrans
 - NATO Reference Mobility Model II (NRMM II)
- Custom-Developed Software
 - DTSS Core
 - Built on top of COTS and GOTS



Build 8.0 Software Architecture





Build 8.0 Overview



- COTS/GOTS
- Supports ABCS 7.0 capabilities
- Functions integrated into ArcGIS
- Vector data functions use geodatabases, coverages, shapefiles
- Elevation data functions use raw DTED, ESRI GRID, ERDAS Imagine formats
- Output products in ArcGIS geodatabase
- Multiple configurations: DII COE, ABCS, Un-Segmented
- Scheduled for fielding May 03



COTS/GOTS Packages



COTS

- Windows 2000
- ArcGIS 8.2
- ArcGIS Military Analyst Extension
- Imagine 8.6
- Informix 9.3
- DVD-Write for Windows 2000
- ArcView 3.3

GOTS

- DII COE 4.5
- JMTK 4.5
- GEOTRANS 2.2.2
- BTRA 1.0
- NRMM II



DTSS vs ABCS Baselines



- The DTSS Baseline is the baseline for Build 8.0
- The ABCS Baseline is the DTSS Baseline plus the ABCS Components
 - Common Message Processor
 - Provides USMTF and JVMF messaging
 - Comms Server
 - Provides the communication protocols
 - TOC Boot Control
 - Provides Dynamic IP addressing
 - C2 Registry
 - Provides addresses for all the TOC systems



DTSS Build 8.0 Capabilities



- Importers
 - SLF Importer – ITD, PITD
 - VPF Importer - VITD, FFD, DTOP, VMap, UVMMap, FFD as DTOP
 - Delimited file importer
- Basic editing via data models
 - VITD, ITD, DTOP, FFD, VMap, UVMMap



DTSS Build 8.0 Capabilities (cont'd)



- Mobility
 - NRMM II
 - Off-Road/On-Road
 - Uses ITD or VITD
 - Shaded time distance
 - Mobility Toolbar
- BTRA Segment
 - Maneuver Networks
 - Movement Prediction



DTSS Build 8.0 Capabilities (cont'd)



- Data Query
 - Boolean and set queries across features, datasets, and products using geodatabase input
- Suitability Calculator
 - Provide the capability to produce suitability products from vector data
- Spatial Query
 - Selects and clips all features that DO NOT overlay features in second layer



DTSS Build 8.0 Capabilities (cont'd)



- Visibility analysis
 - Site (point) Visibility
 - Route Visibility
 - Region Visibility
 - Route Profile
- Terrain visualization
 - Slope Generator
 - Elevation tools – Military Analyst



DTSS Build 8.0 Capabilities (cont'd)



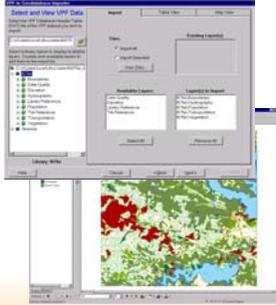
- Map Production
 - Multiple scale support
 - MGRS support
 - MIL-STD-2525B
 - Geo, UTM, MGRS grids
- Tools and Utilities
 - Buffer Analysis Tool
 - Proximity Analysis Tool
 - DOP client for windows platform




Importers




NIMA Data Importers



- Import NIMA vector data into relational database (ArcInfo geodatabase)
- Supports standard NIMA products
 - SLF ITD, PITD
 - VITD, FFD, DTOP, VMap, UVMaP, DNC

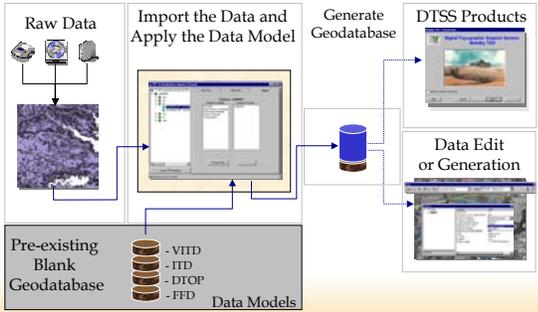



DTSS Geodatabases

- Advantages
 - Interactive layer selection
 - Preview VPF layers and attribute
 - Ability to have large, seamless data sets
 - Facilitates data editing and value-adding
 - Alias data codes to word equivalents for editing and query
- Disadvantages
 - Unlike shapefiles, format not commonly used by other software packages
 - ArcInfo tools/functions not yet optimized for format
 - Cannot model data without complete specification




DTSS Data Model Overview

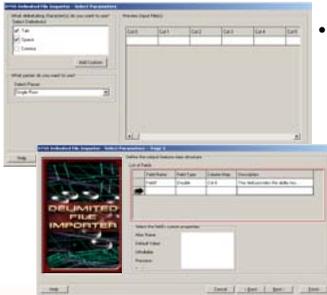


The flowchart illustrates the DTSS Data Model Overview process:

- Raw Data** (represented by a satellite image) is processed through **Import the Data and Apply the Data Model** (represented by a software interface).
- The process involves **Pre-existing Blank Geodatabase** and **Data Models** (VITD, ITD, DTOP, FFD).
- The output is **Generate Geodatabase** (represented by a database icon).
- The final products are **DTSS Products** (represented by a software interface) and **Data Edit or Generation** (represented by a software interface).



Delimited File Importer



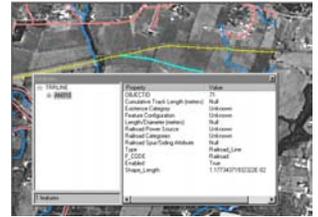
- Facilitates import of text-based files representing point, line, or polygon data
- User identifies delimiter and file structure
- File structure can be re-used



Data Editing



- Modeled the NIMA data for import into a relational database
- Modeled database has a template of the NIMA data specifications
- Provides for correcting and value adding to imported NIMA data



Mobility



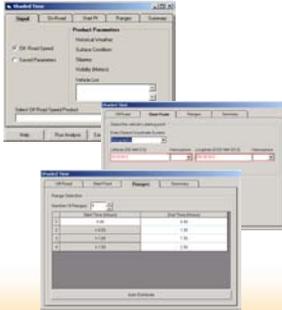
Mobility



- Based on NATO Reference Mobility Model II (NRMM II)
- Provides cross-country and on-road speed predictions for standard vehicles



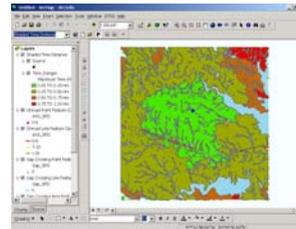
Shaded Time Distance



- Mobility Toolbar
- Uses Off-Road Speed Product from NRMM II as Input
- Can Include NRMM II On-Road Speed
- Time Ranges in .01 Hours



Shaded Time Distance



- Color-Coded Speed Ranges from User-Selected Start Point



Battlespace Terrain Reasoning and Awareness (BTRA)



BTRA

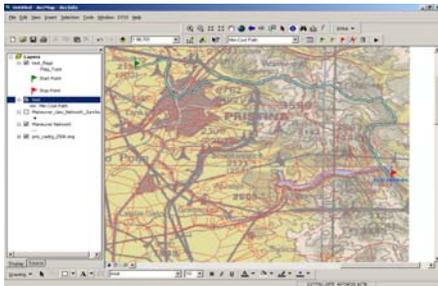


- Generates Maneuver Network from NRMM II Input
- Maneuver Prediction Toolbar
- Analysis Options
 - Minimum Cost Path
 - One-Way Analysis
 - Two-Way Analysis
 - Named Area of Interest





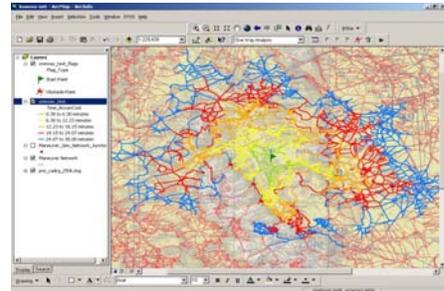
Minimum Cost Path



Optimum route based on time or distance. Can have multiple Start Points with single Stop Point, or single Start Point and multiple Stops.



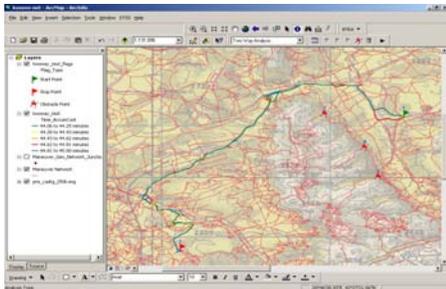
One-Way Analysis



Color-coded to show areas that can be traversed within user-specified Cost Constraint



Two-Way Analysis



Shows all possible routes, as well as optimum route, between start and stop point that meet user-specified Cost Constraints



Named Area of Interest



Reports time force will arrive at NAI and when it must leave to achieve objective. Can have multiple INDEPENDENT NAIs.



Visibility



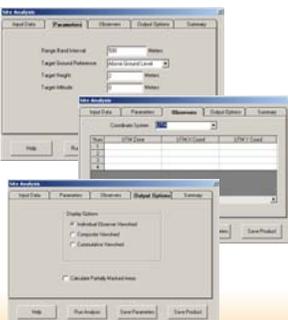
Visibility Analysis



- Product selection from Toolbar
- Uses ESRI LOS algorithm
- Can save product after generate
- Site, Route, Region Visibility
- Route Profile



Site Visibility



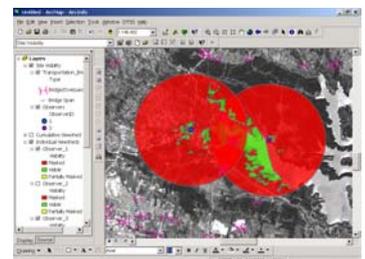
- Multiple Observer Points
- Optical or Radar
- Range Bands
- Varying Observer and Target References



Site Visibility – Individual Viewshed



- Individual Viewsheds with two observer locations
- The RED, YELLOW, and GREEN points are valid for a particular observer

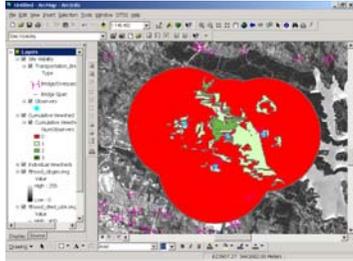




Site Visibility – Cumulative Viewshed



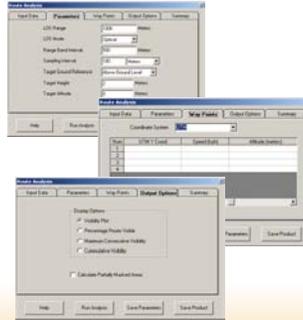
- Cumulative Viewshed with four observer locations
- Each viewshed is depicted in a GREEN color ramp
- The more observers that can see a given point the darker the shade of green is used



Route Visibility



- Individual Viewshed for Each Waypoint
- Percent Visibility 0-100%
- Maximum Consecutive Visibility
- Interactive Point to Route



Route Visibility



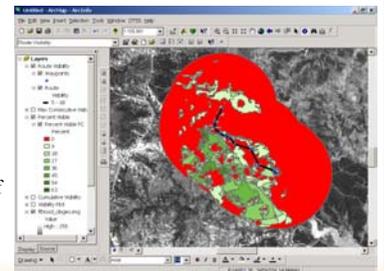
- Percentage Route Visibility – What Route Can See
 - Each grid cell surrounding the route within the LOS range specified by the user is given a value between 0 – 100
 - Zero means the area cannot be seen anywhere from the route and a value of one hundred would mean the entire route can see this area
- Consecutive Waypoint Visibility – Who Can See Route
 - Each point surrounding the Route within LOS range is given a value of 0 to N with N being the total number of consecutive waypoints visible along the route
 - An area that has a value of three would mean that it can see three consecutive waypoints along the route



Route Visibility Percent Visible

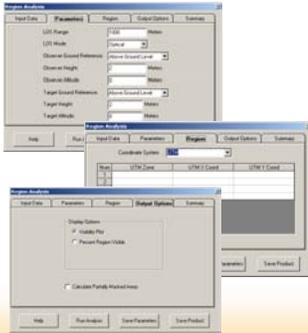


- What can be seen from the route
- Red means the area cannot be seen anywhere from the route and the darker the green, the more of the route that can see the area





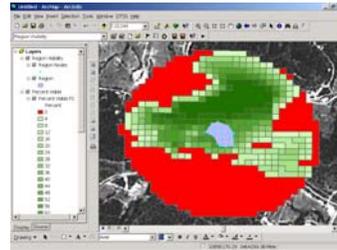
Region Visibility



- Visibility Plot for Area
- Percent Visibility 0-100%
- Interactive Visibility Analysis for Location Outside of Region



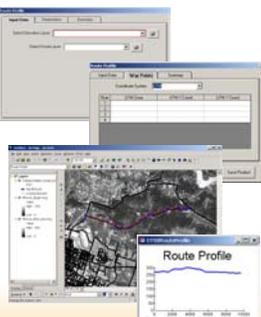
Region Visibility Percent Visible



- What can be seen from the region
- Red means the area cannot be seen anywhere from within the region and the darker the green, the more of the region that can see the area



Route Profile



- View the Elevation Profile for a Selected Route
- Route can be Selected from Line Feature Class such as a Road or Stream



Data Query





Data Query



- Provides the capability to produce special products
- Perform Boolean queries across multiple data layers
- Comes with pre-defined sample queries for ITD, VITD, FFD, DTOP



Suitability Calculator



Suitability Calculator



- Rate features/layers
- Output lowest rating for any input feature
- Areas, Lines, or Points



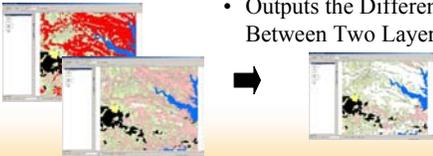
Spatial Query



Spatial Query




- Create a New Feature Class by Selecting and Clipping All the Features that DO NOT Intersect Another Selected Feature Class
- Outputs the Difference Between Two Layers




Buffer Analysis



Buffer Analysis




- Buffers Around Points, Lines, Polygons
- User-defined Distance and Units
- Multiple Buffer Rings

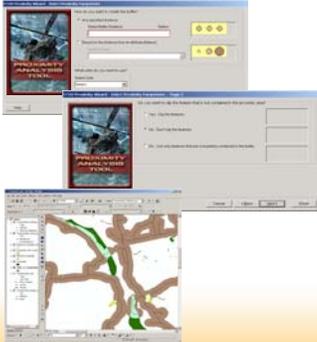


Proximity Analysis





Proximity Analysis



- Use Multiple Feature Layers
- Buffers Around Points, Lines, Polygons
- User-defined Distance and Units
- Can Clip Output Features



Slope Generator



Slope Generator



- ITD, VITD, DTOF Slope Ranges
- User-Defined Slope
- Raw Slope Values



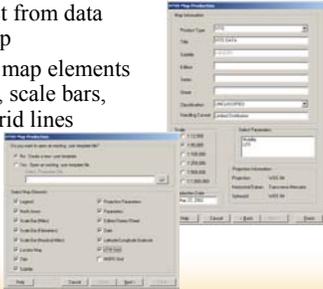
Map Production



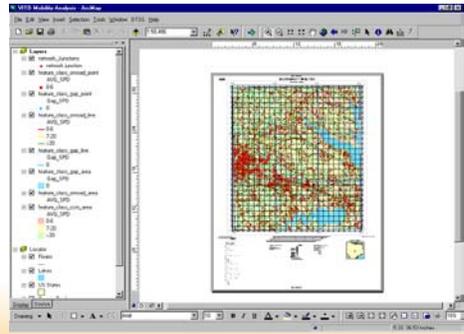
Map Production



- Creates map product from data displayed in ArcMap
- Automatically adds map elements such as north arrow, scale bars, location map, and grid lines
- Multiple scales



Map Production Tool



Exporters



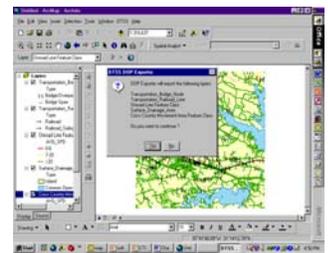
- Provide data and DTSS products to other DTSS and ABCS systems to ensure interoperability
- Includes:
 - Custom-developed DTSS Overlay Provider (DOP) for vector data and products
 - ERDAS Imagine functions to export raster data in ERDAS *.img format to RPF (CIB, CADRG) or ADRG formats



DTSS Overlay Provider (DOP)



- Allows DTSS TDAs to be viewed on other ABCS systems
- Compatible with Joint Mapping Toolkit Viewer (JMV)
- Converts COTS format data into JMV Overlay





DTSS Overlay Provider (DOP) and Homepage



DTSS Overlay Provider (DOP)



- Provide data and DTSS products to other DTSS and ABCS systems to ensure interoperability
- Post on DTSS Homepage or Map Server
- Custom-developed DTSS Overlay Provider (DOP) for vector data and products
 - DOP on DTSS
 - DOP Client on ABCS Systems (Unix-primarily)



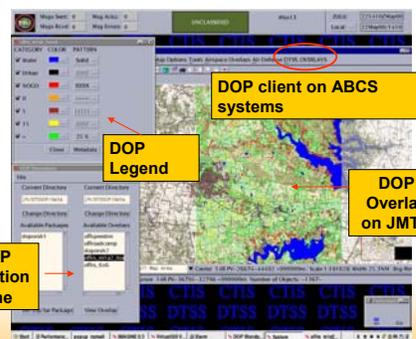
DTSS Overlay Provider (DOP)



- Allows DTSS TDAs to be viewed on other ABCS systems using DOP Client
- Compatible with Joint Mapping Toolkit Viewer (JMV)
- Converts COTS format data into JMV Overlay



DOP Client



DTSS Homepage

DTSS TARGET FOLDERS

DTSS PERSPECTIVE VIEWS

DTSS OVERLAY PROVIDER OVERLAYS

DTSS Terrain Product Distribution

BN ABCS OPERATORS PULL PRODUCTS FROM BDE DTSS HOMEPAGE OVER TACTICAL COMS

Security

Security

- Certification and Accreditation process
 - DoD Information Technology Security Certification and Accreditation Process (DITSCAP)
- Requirements and Guidelines
 - Policies and Guidelines issued by PEO, DISA, DII COE
 - Requirements in AR 380-19, AR 380-5, DoD and National Requirements



Security



- Documents
 - Security Requirements Traceability Matrix (SRTM)
 - User Security Manual/Standard Operating Procedures (USM/SOP)
 - Trusted Facility Manual (TFM)
 - Security Test Procedures and Report
- IAVA compliance
 - Software meets the Information Assurance Vulnerability Alerts (IAVA) compliance



ABCS Map Server



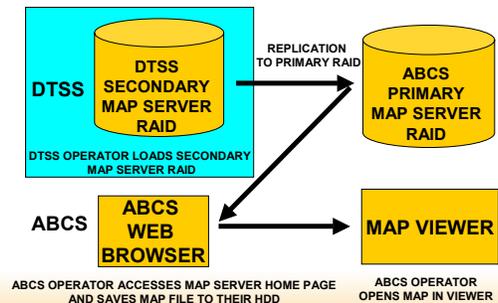
ABCS Map Server



- Establish Common Topographic Operating Environment (CTOE)
- Web-enabled centralized data repository for digital map and data dissemination
- Created to replace the Sneaker Net process of distributing maps to the Battlefield Functional Areas (BFAs)
- Provides for the acquisition, storage, and retrieval of NIMA and DTSS imagery and map data
- Located at echelons Brigade and above
- At Division and Brigade, replicate pairs (Primary / Secondary) of the Map Server are implemented at each TOC, enabling fail-safe operation



DTSS Map Server Threads





Hardware Overview



- Primary Map Server
 - Hosted in G3/S3 Shelter
 - Netra t1-105 Server
 - Sun A1000 RAID (~ 250 GB)
- Secondary Map Server
 - Hosted in DTSS Shelter
 - Netra t1-105 Server
 - Winchester RAID (~ 480 GB @ 4ID / 1.2 TB @ 1st Cav)



Software Segments



- System
 - Solaris 7
 - DII COE 4.2
 - C2Protect – Security Operations Suite (SOS)
- Database
 - Informix IDS 9.3
 - ArcSDE 8.1 for Informix
- Utilities
 - Perl 5.005 (DBI, DBD)
 - Java 1.3
- Applications
 - ArcIMS 3.1
 - Netscape Web Browser
 - Netscape Enterprise Server 4.1
 - Netscape Suitespot
 - iPlanet Enterprise



User Classes/Functions



- User Classes
 - Account Manager (Sys Admin)
 - Data Loader
 - Process Manager
 - Public
- All Functions, except Public, are Performed on DTSS

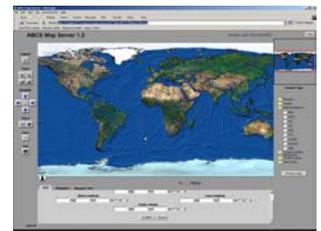
Rights	Roles			
	"Account Manager"	"Data Loader"	"Process Manager"	"Public"
Use Map Interface	+	+	+	+
Start/Stop Processes	+	+	+	
Load Data		+	+	
Create Users & Grant Rights	+			



"Public" Access



- Access Map Server Homepage using Web Browser
- IP Addresses Provided to Users
- Available on other DTSS or other ABCS Systems
- Data Available from Primary or Secondary





Build 8.1



- **COTS Upgrades**
 - ESRI ArcGIS 8.3
- **Possible New Capabilities**
 - Mobility (additional BTRA functionality)
 - Visibility (Interactive Route and Region)
 - TACDAM – port of Unix software
 - Terrain visualization (elevation tints, aspect generation)
 - Tools and utilities (equipment characteristics database, illumination/lighting calculator, elevation browser)
- **Additional Advanced Editing Capabilities (COTS)**
 - Subsetting, Feature Behaviors, Mosaicking,
 - Topology Error Checking
- **Scheduled for Sep 03**



Build 9 and Beyond



- **COTS Upgrade**
 - ArcGIS 9.0
 - Model Builder
 - Map Series Tool
- **JCDB Exploitation**
- **Enterprise Database (ArcSDE)**
- **MOU TDA's and Data Generation**
- **Hydrology Models**
 - Dam Breach, Flood Prediction
- **Additional Weather Effects**
- **Data Conflation/Fusion**
- **Common Data Model**
- **Rule-Based Semi-Automated Feature Extraction**



System Constraints



- **Lack of Vector Feature Data**
 - Data required for tactical terrain analysis was, is, and probably will remain, extremely limited
 - Changes in data specs, formats, etc. pose a challenge to creating useable data models
- **Intelligent TDAs/Analysis Models Do Not Exist**
 - Require incorporation of activity, time, weather, echelon, etc.
 - Need to make “expert” inferences when data is missing
 - Must output reliability/accuracy assessments based on input data

Responses to Pre-proposal Conference Questions

The following responses are provided to the questions asked during the pre-proposal conferences for the Combat Terrain Information Systems (CTIS) Systems Engineering and Integration Solicitation.

Question 1: On page 25 of 88, Section C.9 Safety Engineering. The phrase "complying with Task 101..." , can you clarify?

Response: The reference to "Task 101" is incorrect. Delete the words "Task 101". A change page is provided with amendment 0001 to the solicitation.

Question 2: Section L of the RFP requires an offeror's Small Business Subcontracting Plan be incorporated within Volumn 1. Since an offeror's Small Business Subcontracting Plan may include the offeror's total proposed price (including dollarized Subcontracting objectives), should the Small Business Subcontracting Plan be included within Volume 5 (Cost Proposal)?

Response: Yes, include the Small Business Subcontracting Plan in Volume 5. Changes are made on Page 71 of 88. A new Page 71 of 88 is attached.

Question 3: Can you distribute a copy of the attendees list?

Response: Yes, the Attendance List is attached.

Question 4: Can you demonstrate or elaborate on what exists in software now and what is desired for future capabilities in the area of Task Embedded Training, etc?

Response: The current embedded training capability in DTSS is considered the lowest level of training: Embedded Help. Each significant DTSS function has a help button that, when activated, takes the user to that section of an on-line software user manual. The on-line manual describes the selected function or, as required, steps the user through the process of performing the function. Screen shots and step-by-step procedures are provided in the on-line manual for most functions.

The goal for embedded training includes the ability to interactively engage the students with tutorials that keep them answering questions, carrying out tasks, and correcting observed errors. The lessons not only train, but also test the student and provide feedback. Training environments should allow the student's supervisor to monitor and evaluate progress.

The following are some essential requirements for computer-based training:

- 1. The lesson's test is developed first and used as a design template. The lesson is designed and developed to teach the skills required by the criterion test.*
- 2. A computer-based training lesson is interactive, providing guided practice on each task, with feedback to the student/monitor.*

Responses to Pre-proposal Conference Questions

3. *Feedback is designed for each practice item, providing confirmation of a correct response and the identification of an error as incorrect.*
4. *For validation, each lesson goes through a series of tests and revisions, evaluating the effectiveness of each lesson.*
5. *For storage and access, upon acceptance, each lesson is (eventually) to be added to the Army's Reimer Digital Library, from which it may be accessed by using units.*

It should be noted that these capabilities are to be developed in accordance with the Army Digital Training Strategy requirements/guidelines (CATS, ABCS StyleGuide, SCORM, etc). The ADTS and TRADOC Regulation 350-70 cite requirements; with the Pam350 series providing guidelines for producing training products, training devices, and courseware development. Requisites for a Distance Learning capability and interconnectivity are defined in these documents. There is also a requirement for accreditation of course completion for the student that becomes part of his/her MOS, currently through ATRRS.

For content, the following is specified the DTSS ORD:

Embedded Training (ET) will be developed to support the overall DTSS training strategy. The ET must be integrated into the DTSS and all its variants, be interoperable with ABCS and support the Army modeling and simulation systems through the use of standard NIMA formats. ET integration into the DTSS must allow the soldier to train for any terrain analysis task, from individual through force-level as required. ET must provide for a guided and unguided overview and tour for operators to operate each of the system's peripheral devices and their associated software programs. The ET within the DTSS addresses both the perishability of digital terrain analysis skills and the rapidly evolving nature of terrain-visualization software programs. Geospatial data and products produced by the DTSS must be exportable to ABCS and the Army modeling and simulation systems.

DACA42-03-R-0008
Amendment 0001
Change Pages

The pages included in the following section are provided as change pages to the original solicitation package. With the exception of page 50a, the original pages should be removed and replaced with the provided pages marked as Amendment 0001. Page 50a should be inserted following the original page 50.

C.6.3 Program Reviews

The contractor shall conduct the first Program Status Review (PSR) 120 days after contract award and conduct additional reviews every six (6) months. These reviews shall provide in-depth visibility into contract cost, schedule, and technical status (including all active task orders under this contract) and to include supportability issues. The contractor shall provide agendas [\(A004\)](#), briefing packages [\(A005\)](#), and meeting minutes [\(A006\)](#) for all PSR's.

C.6.4 Technical Exchange Meetings

The contractor shall conduct informal technical exchange meetings (TEM) between contractor and Government personnel approximately every two months. The TEMs will be informal technical meetings between contractor and Government personnel. The contractor shall provide Briefing Packages and Meeting Minutes in accordance with A005 and A006. The contractor shall host a start of working meeting approximately 30 days after award of first task order (TO).

C.6.5 Staff Meetings

The contractor shall be available for weekly staff meetings with the CTIS Program Management Team. These staff meetings will be held at a regularly scheduled, prearranged time, at the CTIS Program Office in Alexandria, VA. If requested in advance of the staff meeting, the contractor shall provide briefing packages in accordance with A005.

C.6.6 Subcontractor Management

The contractor shall establish a subcontractor management approach to ensure that each subcontractor complies with the requirements for deliverables to the prime contractor. This management approach shall be documented as part of the Program Management Plan. The prime contractor shall be totally responsible for the performance, cost, and schedule of all subcontractors. The contractor shall incorporate subcontractor work units into the monthly C/SSR Reports.

C.6.7 Action Item Tracking

The contractor shall establish and maintain an electronic system for identifying, tracking, and closing action items. The status of relevant action items shall be reviewed at the PSRs and TEMs. These action items shall be compiled, sorted, and included in the PSR, monthly C/SSR, and TEM minutes. The contractor shall deliver the action item list IAW CDRL A007.

C.6.8 Travel

The contractor shall travel to various locations throughout the world in support of the CTIS Program. These trips are to collect technical data and to provide support to the Government. The travel locations listed below (not all inclusive) will be applicable during the performance of contract.

- (a) Fort Huachuca, Arizona
- (b) Fort Monmouth, New Jersey
- (c) Fort Leonard Wood, Missouri
- (d) Aberdeen Proving Ground, Maryland
- (e) Ft. Hood, Texas
- (f) Ft. Lewis, Washington
- (g) Other Government and Private facilities as required

Upon completion of travel, the contractor shall provide trip reports to the Government in accordance with CDRL A008. Trip reports shall document the reason for travel, where traveled, person(s) or organization(s) contacted, decision(s) made and conclusion(s) and recommendation(s).

may be conducted at a facility designated by the contractor, the contractor's facility, a Government facility, or at an independent laboratory or commercial testing facility. The contractor shall notify the Government at least 10 working days before the beginning of testing. The Government has the right to witness any and all tests. The contractor shall maintain a record of all test results and shall analyze and correct any failures. The contractor shall prepare a Hardware Qualification Test Report (A013).

C.7.3 Software Engineering

The Contractor shall develop new software and upgrades to existing software. The contractor shall integrate newly developed software and upgraded software into the existing software maintained under the CTIS program.

These subtasks require the contractor to integrate upgraded and new software into the CTIS software suite. The contractor shall integrate COTS, Government-developed and contractor-developed software into the existing CTIS software suite into a fully functional system. The main commercial packages used by CTIS are ERDAS Imagine and ESRI ArcGIS, and associated add-on modules. ESRI ArcIMS, ArcSDE and Informix currently support Map Server operation. Several other commercial packages are used, including Microsoft Office, Adobe Photoshop, and Norton Antivirus.

The Graphical User Interface (GUI) provides the user with a single interface with which to access the software suite and produce required Tactical Decision Aids (TDAs). The contractor shall integrate software upgrades, and new and developmental software (as detailed below) into the existing CTIS software suite and GUI on both UNIX and Windows 2000 based workstations.

C.7.3.1 Software Development Plan

The contractor shall develop and implement a Software Development Plan (SDP) (A014). The SDP shall describe the software development and integration method chosen by the contractor to meet the software requirements IEEE/EIA 12207.0, 12207.1, 2207.2 or the processes in effect for commercial-off-the-shelf (COTS) or government-off-the-shelf (GOTS).

C.7.3.2 Software Development Library

The contractor shall maintain a Software Development Library (SDL) (A015). The SDL will contain all software tools used to develop, integrate, test, and maintain the CTIS software and documentation required by this SOW, along with the test data sets used for testing.

The contractor shall permit the Government to obtain necessary rights to all computer resources developed or provided by the contractor and contained in the SDL, which are required to develop, integrate, test and maintain the software baseline. The contractor shall not claim proprietary data rights on any such computer resources.

A Software Development Folder (SDF) (A016) will be kept in the SDL for each software unit, to include commercial software packages. The primary purpose of the SDF is to record the rationale for key decisions made in the CTIS Prototype development as outlined in this SOW. The number and allocation of SDFs to software units are subject to Government approval of the SDP. The contractor shall provide the Government access to the SDF at all times during execution on a non-interference basis. The SDFs will serve as working documentation and must contain current information at each PSR and the DR. Cosmetic modification of the SDF prior to delivery to the Government is discouraged.

For developmental software, the SDF shall contain at a minimum the following information:

- a. traceability information (to include all approved ECPs)
- b. design description (to include interfaces between software units)
- c. source code listings (to include version description information)
- d. compilation procedures
- e. test plans, procedures, and data
- f. test results

In the event of wartime operations where the DTSS and other CTIS systems are deployed overseas, the contractor shall provide on-site technical software and hardware support for all CTIS Systems developed or maintained under this contract. In preparation for this level of support the contractor shall identify and maintain on staff, two individuals who are qualified to provide technical support and are able to deploy overseas. Those individuals shall be required to attend the appropriate training for overseas deployment. The time and location of the deployment will be provided no less than 48 hrs prior to deployment.

C.8 INSPECTION AND ACCEPTANCE

C.8.1 Quality Assurance

The contractor shall provide and maintain a quality program acceptable to the Government for supplies and services required herein. The quality program shall be IAW ANSI/ASQC Q9002 and shall be documented in the Quality Assurance Program Plan (A030). A Quality Control Plan (A031) shall be submitted in accordance with DI-QCIC-80147. The contractor may utilize existing contractor's plans to meet this requirement.

C.8.2 Inspections

The contractor shall be responsible for demonstrating that material delivered to the Government complies with the requirements of the issued task order, and the specifications and drawings for the DTSS. Except as otherwise specified, the contractor may utilize its own facilities or any commercial facility acceptable to the Government for the purpose of conducting required inspections, demonstrations or tests. QA operations required of the contractor will be subjected to Government verification.

C.8.2.1 Quality Conformance Inspection

As a minimum, the contractor shall perform the inspections and tests specified in the issued task order. This does not relieve the contractor of the responsibility for performing any inspections that are necessary to control the quality of the product IAW the contractor established, Government approved, Quality Program and to ensure compliance with contract requirements.

C.8.2.2 Quality Assurance Conformance Inspection

The contractor shall maintain records to demonstrate compliance with all contractual Quality Assurance and inspection requirements.

C.8.2.3 Inspection of Supplies, Supplemental QA Instructions

This section supplements FAR 52.246-02, entitled "Inspection of Supplies."

The extent of Government verification inspection will be determined by the Government. Such inspection will not normally exceed the Quality Assurance requirements established in the specification, contract or task order. However, the Government reserves the right to perform up to 100% inspection when the Procurement Contracting Officer (PCO) determines such additional inspection is required.

At the option of the Government, Government inspection may be performed concurrently with the contractor's inspection, quality assurance audit, or independently on samples selected by the Government's representative.

The contractor's inspection records of manufacturing/production verification of electrical parameters shall reflect absolute measurements of discrete characteristics that permit analysis, evaluation, comparison, and correlation with the particular manufactured product offered to the Government. The use of check-off sheets or "GO/NO-GO" records is unacceptable, unless prior approval is obtained from the PCO.

C.9 SAFETY ENGINEERING

The contractor shall develop and implement a system safety program complying with Section 4 of MIL-STD-882D and the requirements contained herein. The System Safety Program shall be documented in the System Safety Program Plan (A032).

C.11.1.6 Technical Manual In-Process Reviews

In-Process Reviews (IPRs) shall take place on an as-needed basis. At each IPR the contractor will provide hard paper copies of the material to be reviewed. Contractor's technical writer assigned to this contract shall attend all meetings, which shall take place at the contractor's facility. The Government will coordinate the dates of each meeting with the contractor NLT 7 days prior to starting date.

C.11.1.7 Style and Format

Style and format is to remain the same as the original TMs, whether update is by change page or by TM revision.

C.11.2 Maintenance Allocation Chart

The contractor shall prepare and deliver to the Government updated CTIS System Maintenance Allocation Charts (MACs) (A041), in accordance with (IAW) Section 7.3 of the Government's "Content Requirements for US Army Communications and Electronics Technical Manuals Including Repair Parts and Special Tools Lists, Depot Maintenance Work Requirements, and Modification Work Orders". The MAC shall identify the maintenance functions that must be performed, the maintenance level responsible for the function, and the active repair time, tools, and test equipment necessary to perform the function for each repairable assembly and subassembly of the end item. The MAC shall include all maintenance levels of up to and including depot.

- a. The MAC shall document to the lowest repairable assembly within the end item. Items that are not repaired (fuses, sealed units, cables, etc.) are not listed in Section II of the MAC. These items are to be documented in a remark against the repair function of their next higher assembly. All items that have repair functions assigned to multiple levels shall be supported by remarks that clarify the specific repair actions performed at each level (example: repair at unit level includes replacement of defective fuses and lamps).
- b. The Functional Group Codes (FGC) in Section II of the MAC shall be numeric codes that identify a particular system, subsystem, component/assembly or part of the system. FGC assignment shall correspond to the top-down breakdown sequence of the system. The assignment of a FGC shall require Government approval.
- c. Nomenclature Components. Configured systems may be comprised of nomenclature components and end items that are covered by a separate MAC, RPSTL, and Maintenance Narrative. The System MAC will list these components and/or end items with a FGC and maintenance functions performed at organizational level with a remark against the repair function. This remark shall reference the appropriate equipment publications, which contain the component MAC.
- d. First Appearance Components. When an item appears in a system in multiple quantities with the same maintenance concept, the Government will allow reference to the first appearance. If the items are sequential in appearance, the items shall be grouped together under one FGC.

C.11.3 Provisioning Technical Documentation

The contractor shall prepare/update the following Provisioning Technical Documentation (PTD) (A042) for all CTIS systems developed under this contract:

- a. Provisioning Parts List (PPL)
- b. Engineering Data for Provisioning (EDFP)
- c. Design Change Notices (DCN)

C.11.3.1 Provisioning Parts List

The contractor shall develop/update the Provisioning Parts List (PPL) (A043) for all CTIS Systems developed under this contract.

H.9. PIL 2003-06, Security

All Contractor employees (U.S. citizens and Non- U.S. citizens) working under this contract (*to include grants, cooperative agreements and task orders*) who require access to Automated Information Systems (AIS), (stand alone computers, network computers/systems, e-mail) shall, at a minimum, be designated into an ADP-III position (non-sensitive) in accordance with DoD 5220-22-R, Industrial Security Regulation. The investigative requirements for an ADP-III position are a favorable National Agency Check (NAC), SF-85P, Public Trust Position. The contractor shall have each applicable employee complete a SF-85P and submit to:

U.S. Army Engineer Research and Development Center
Topographic Engineering Center
ATTN: Martha A. Bishop, Security Officer
7701 Telegraph Road
Alexandria, VA 22315-3864

within three (3) working days after award of any contract or task order, and shall be submitted prior to the individual being permitted access to an AIS. Contractors that have a commercial or government entity (CAGE) Code and Facility Security Clearance through the Defense Security Service shall process the NACs and forward visit requests/results of NAC to Martha Bishop, Security Officer, at the address above. For those contractors that do not have a CAGE Code or Facility Security Clearance, the Security Office listed above will process the investigation in coordination with the Contractor and contract employees.

In accordance with Engineering Regulation, ER 380-1-18, Section 4, foreign nationals who work on Corps of Engineers' contracts or task orders shall be approved by the HQUSACE Foreign Disclosure Officer or higher before beginning work on the contract/task order. This regulation includes subcontractor employees. (NOTE: exceptions to the above requirement include foreign nationals who perform janitorial and/or ground maintenance services.) The contractor shall submit to the Division/District Contract Office, the names of all foreign nationals proposed for performance under this contract/task order, along with documentation to verify that he/she was legally admitted into the United States and has authority to work and/or go to school in the US. Such documentation may include a US passport, Certificate of US citizenship (INS Form N-560 or N-561), Certificate of Naturalization (INS Form N-550 or N-570), foreign passport with I-551 stamp or attached INS Form I-94 indicating employment authorization, Alien Registration Receipt Card with photograph (INS Form I-151 or I-551), Temporary Resident Card (INS Form I-688), Employment Authorization Card (INS Form I-688A), Reentry Permit (INS Form I-327), Refugee Travel Document (INS Form I-571), Employment Authorization Document issued by the INS which contains a photograph (INS Form I-688B).

3. SECTION K, REPRESENTATIONS AND CERTIFICATIONS

B. *Volume 2 (RDT&E Software Development Task Technical Proposal)*

Volume 2 should contain a technical proposal to address the subfactors under paragraph M.2.6 for "Statement of Work for CTIS SE&I RDT&E Software Development Task" (NOT TO EXCEED 30 PAGES)

C. *Volume 3 (ILS and OPA Task Technical Proposal)*

Volume 3 should contain a technical proposal to address the subfactors under paragraph M.2.7 for "Statement of Work for CTIS SE&I ILS/OPA Support Task" (NOT TO EXCEED 30 PAGES)

D. *Volume 4 (Technical Software Development Task Proposal)*

Volume 4 should contain a technical proposal to address the subfactors under paragraph M.2.8 for "Statement of Work for CTIS Technical Software Development Task" (NOT TO EXCEED 30 PAGES)

E. *Volume 5 – Cost Proposal*

Volume 5 should contain a cost proposal to address the subfactors under M.2.10, "Cost" for each of the task orders entitled "Statement of Work for CTIS SE&I RDT&E Software Development Task", "Statement of Work for CTIS SE&I ILS/OPA Support Task" and "Statement of Work for CTIS Technical Software Task". Cost Proposal be in sufficient detail to determine if all associated costs are fair and reasonable and realistic for the described statement of work in each individual task order. (NOT TO EXCEED 30 PAGES FOR EACH PROPOSAL.)

A completed DD Form 1423 (Blocks 17 and 18) shall be included for each task order in the cost volume however it is not included in the total page count.

[A Small and Small Disadvantaged Business Subcontracting Plan to address the factor under paragraph M.2.9. See paragraph L.2 for further instructions on completing this information. \(NO PAGE LIMIT\)](#)

F. *Volume 6 (Past Performance)*

Volume 6 shall contain information as specified in SECTION L, paragraph L.C to address the factors under paragraph M.2.5 for Past Performance. (NO PAGE LIMIT).

L.2 – SMALL/SMALL DISADVANTAGED BUSINESS SUBCONTRACTING PLAN

A large business submitting a proposal must include as part of its proposal a subcontracting plan. In addition to all other subcontracting plan requirements, the subcontracting plan must address and respond to the evaluation criteria related to subcontracting and included in the solicitation. The offeror shall identify the specific page/paragraph number within the subcontracting plan that addresses the Offeror's response to categories 1 through 8 of the Small and Small Disadvantage Business Subcontracting Plan Scoring System. See Section J, Attachment 7. Small businesses are not required to submit a subcontracting plan and will receive full value for the Evaluation Factor at M.2.9, Small and Small Disadvantaged Business Subcontracting Plan.

L.3 PAST PERFORMANCE INFORMATION

Past Performance information to be included within the past performance section of the Offeror's proposal shall contain the following:

- A. *Executive Summary.* This section synthesizes the contents of the past performance proposal and provides an overview of previous technical and management approaches.
- B. *Work Plan.* Description of the Offeror's previous successful approach(es) to performing relevant efforts related to the CTIS/SE&I statement of work.
- C. *Past Performance Information.* Offeror's shall submit the following information as part of its proposal for both the offeror and subcontractors that the offeror has determined to be significant. This information shall be submitted prior to the other parts of the proposal to assist the Government in reducing the evaluation period.

M.2.6 FACTOR: Task Order for 'CTIS RDT&E Software Development Task'

Analysis of the task order will be based on the Offeror's response to the 'CTIS SE&I RDT&E Software Development Task'.

M.2.6.1 Subfactor: Technical Approach

Proposed technical approach shall be reasonable and realistic for the task(s) with low risk exposure for the Government. The proposal shall demonstrate the contractors understanding of the software requirements, a feasible software development approach and provide adequate software integration support. The proposal shall also demonstrate the contractors understanding of the requirements in the development of website support and phone help desk and phone hotline support.

M.2.6.2 Subfactor: Work Breakdown Structure (WBS)

Proposed WBS shall specify team manager, team members, their task assignments and attendant responsibilities.

M.2.6.3 Subfactor: Task Schedule

Proposed schedule shall contain applicable milestones and deliveries for all tasks and subtasks.

M.2.7 FACTOR: Task Order for 'CTIS SE&I ILS/OPA Support Task'.

Analysis of the task order will be based on the Offeror's response to the 'Statement of Work for CTIS SE&I ILS/OPA Support Task'.

M.2.7.1 Subfactor: Technical Approach

Proposed technical approach shall be reasonable and realistic for the task(s) with low risk exposure for the Government. The proposal shall include an understanding of the Integrated Logistics Support process and development of support documentation (Technical Manuals, Lesson Plans).

M.2.7.2 Subfactor: Work Breakdown Structure (WBS)

Proposed WBS shall specify team manager, team members, their task assignments and attendant responsibilities.

M.2.7.3 Subfactor: Task Schedule

Proposed schedule shall contain applicable milestones and deliveries for all tasks and subtasks.

CONTRACT DATA REQUIREMENTS LIST <i>(2 Data Items)</i>					<i>Form Approved</i> <i>OMB No. 0704-0188</i>			
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Listed in Block E.</p>								
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY TDP _____ TM _____ OTHER <u>MISC</u>				
D. SYSTEM/ITEM CTIS SE&I Contract			E. CONTRACT/PR NO.		F. CONTRACTOR TBD			
1. DATA ITEM NO. A007	2. TITLE OF DATA ITEM Action Item List				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.6.7		6. REQUIRING OFFICE CEERD-TS			
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION Block 16		14. DISTRIBUTION		
8. APP CODE	NO	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE	b. COPIES	
		Draft	Final					
		Reg	Repro					
16. REMARKS Draft due 7 Days after Meeting and matched with meeting minutes. Note: Submission via softcopy is acceptable						0	0	0
						0	0	0
						0	0	0
15. TOTAL →								
1. DATA ITEM NO. A008	2. TITLE OF DATA ITEM Trip Reports				3. SUBTITLE			
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.6.8		6. REQUIRING OFFICE CEERD-TS			
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION Block 16		14. DISTRIBUTION		
8. APP CODE	NO	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE	b. COPIES	
		Draft	Final					
		Reg	Repro					
16. REMARKS 7 days after completion of trip. Note: Submission via softcopy is acceptable						0	0	0
						0	0	0
						0	0	0
						15. TOTAL →		
G. PREPARED BY George C. Louie			H. DATE 05 Dec 02		I. APPROVED BY		J. DATE	

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY TDP _____ TM _____ OTHER <u>MISC</u>					
D. SYSTEM/ITEM CTIS SE&I Contract			E. CONTRACT/PR NO.		F. CONTRACTOR TBD				
1. DATA ITEM NO. A019	2. TITLE OF DATA ITEM Software Test Procedures				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.7.4.1		6. REQUIRING OFFICE CEERD-TS				
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10 FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION Block 16		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE		b. COPIES	
								Draft	Final
							Reg	Repro	
16. REMARKS Draft Due 30 Days Prior to Test. Government comments will be provided within 10 days. Final Due 10 Days Prior to Test. Note: Submission via softcopy is acceptable						TEC	1	2	0
						SEC	1	1	0
						DCMC	1	1	0
15. TOTAL →									
1. DATA ITEM NO. A020	2. TITLE OF DATA ITEM Software Reqmnt's Traceability Matrix				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.7.4.1		6. REQUIRING OFFICE CEERD-TS				
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10 FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION Block 16		14. DISTRIBUTION			
8. APP CODE NO		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE		b. COPIES	
								Draft	Final
							Reg	Repro	
16. REMARKS Draft Due 120 DACA. Final due 15 DARC. Note: Submission via softcopy is acceptable						TEC	1	2	0
						SEC	1	1	0
						DCMC	1	1	0
						15. TOTAL →			
G. PREPARED BY George C. Louie			H. DATE 05 Dec 02		I. APPROVED BY			J. DATE	

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY TDP _____ TM _____ OTHER <u>MISC</u>					
D. SYSTEM/ITEM CTIS SE&I Contract			E. CONTRACT/PR NO.		F. CONTRACTOR TBD				
1. DATA ITEM NO. A037	2. TITLE OF DATA ITEM CTIS Technical Manual				3. SUBTITLE Operator's Manual (TM-10)				
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.11.1		6. REQUIRING OFFICE CEERD-TS				
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION			
8. APP CODE A	NO	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE		b. COPIES	
								Draft	Final
							Reg	Repro	
16. REMARKS Final due 30 DARC from draft submittal. Note: Submission via softcopy in addition to hardcopy is required						TEC	1	2	0
						CECMO	1	1	0
						DCMC	1	1	0
						ENGR SCHOOL	1	1	0
						ORD SCHOOL	1	1	0
						SIGNAL SCHOOL	1	1	0
						NIMA SCHOOL	1	1	0
						15. TOTAL →			
1. DATA ITEM NO. A038	2. TITLE OF DATA ITEM CTIS Technical Manual				3. SUBTITLE Maintenance Manual (TM-23/-23P)				
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.11.1		6. REQUIRING OFFICE CEERD-TS				
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION			
8. APP CODE A		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE		b. COPIES	
								Draft	Final
							Reg	Repro	
16. REMARKS Final due 30 DARC from draft submittal. Note: Submission via softcopy in addition to hardcopy is required						TEC	1	2	0
						CECMO	1	1	0
						DCMC	1	1	0
						ENGR SCHOOL	1	1	0
						ORD SCHOOL	1	1	0
						SIGNAL SCHOOL	1	1	0
						NIMA SCHOOL	1	1	0
						15. TOTAL →			
G. PREPARED BY George C. Louie			H. DATE 05 Dec 02		I. APPROVED BY			J. DATE	

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY TDP _____ TM _____ OTHER <u>MISC</u>					
D. SYSTEM/ITEM CTIS SE&I Contract			E. CONTRACT/PR NO.		F. CONTRACTOR TBD				
1. DATA ITEM NO. A041	2. TITLE OF DATA ITEM Maintenance Allocation Chart (MAC)				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.11.2		6. REQUIRING OFFICE CEERD-TS				
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION			
8. APP CODE A	NO	11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION Block 16		a. ADDRESSEE	b. COPIES		
							Draft	Final	
							Reg	Repro	
16. REMARKS Government comments will be provided within 30 days. Final due 20 DARC. Note: Submission via softcopy is acceptable.					TEC	1	3	0	
					SEC	1	3	0	
					DCMC	1	1	0	
15. TOTAL →									
1. DATA ITEM NO. A042	2. TITLE OF DATA ITEM Not Used				3. SUBTITLE				
4. AUTHORITY (Data Acquisition Document No.)			5. CONTRACT REFERENCE		6. REQUIRING OFFICE				
7. DD 250 REQ N	9. DIST STATEMENT REQUIRED	10. FREQUENCY		12. DATE OF FIRST SUBMISSION		14. DISTRIBUTION			
8. APP CODE		11. AS OF DATE		13. DATE OF SUBSEQUENT SUBMISSION		a. ADDRESSEE	b. COPIES		
							Draft	Final	
							Reg	Repro	
16. REMARKS CDRL A042 is not used.								0	
								0	
					15. TOTAL →				
G. PREPARED BY George C. Louie			H. DATE 05 Dec 02	I. APPROVED BY		J. DATE			

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CONTRACT DATA REQUIREMENTS LIST <i>(2 Data Items)</i>					<i>Form Approved</i> <i>OMB No. 0704-0188</i>										
<p>The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. Listed in Block E.</p>															
A. CONTRACT LINE ITEM NO.		B. EXHIBIT A		C. CATEGORY TDP _____ TM _____ OTHER <u>MISC</u>											
D. SYSTEM/ITEM CTIS SE&I Contract			E. CONTRACT/PR NO.		F. CONTRACTOR TBD										
1. DATA ITEM NO. A047	2. TITLE OF DATA ITEM Packaging Developmental Data Report			3. SUBTITLE											
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE C.11.5.1, C.11.5.2		6. REQUIRING OFFICE CEERD-TS										
7. DD 250 REQ No	9. DIST STATEMENT REQUIRED	10. FREQUENCY ASREQ		12. DATE OF FIRST SUBMISSION ASREQ		14. DISTRIBUTION									
8. APP CODE A		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION Block 16			a. ADDRESSEE		b. COPIES							
					Draft			Final							
							Reg	Repro							
16. REMARKS The draft report shall be submitted 90 days after Government acceptance of the Provisioning Parts List (PPL) via LT (digital media). The Government requires 60 days for review and comment of the report. Submit final report 30 days after receipt of Government comments via DD250. Deliver reports in digital media format. All reports shall be provided both by direct submission as arranged with the requiring office via electronic mail and also by 3.5 inch computer floppy disk, 100 MB Zip disk, or CD-ROM, readable by computers running Microsoft Windows. All data elements shall be in column format for ease of migration into the CECOM Master Data base. Numeric data shall be right justified and zero-filled.						TEC	1	1	0						
							0		0						
							0		0						
						15. TOTAL →						1	1		
1. DATA ITEM NO. A048	2. TITLE OF DATA ITEM Not Used			3. SUBTITLE											
4. AUTHORITY (Data Acquisition Document No.) Contractor's Format			5. CONTRACT REFERENCE		6. REQUIRING OFFICE CEERD-TS										
7. DD 250 REQ DD	9. DIST STATEMENT REQUIRED	10. FREQUENCY ONE/P		12. DATE OF FIRST SUBMISSION SEE ITEM 16		14. DISTRIBUTION									
8. APP CODE A	NO	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION SEE ITEM 16			a. ADDRESSEE		b. COPIES							
					Draft			Final							
							Reg	Repro							
16. REMARKS This Form Intentionally Left Blank N/A							0		0						
							0		0						
							0		0						
						15. TOTAL →						0	0		
						G. PREPARED BY George C. Louie			H. DATE 05 Dec 02		I. APPROVED BY		J. DATE		

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This task includes adding the updates that reflect the latest functionality upgrades for software build 9.0 to the Software User's Manual. This task includes all document reviews (both internal and government), document editing and revisions required to publish a final approved document.

Deliverables by WBS

PA.7.2.1	A039	Technical Manual, Software Users Manual (TB-10) DTSS Build 9.0
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7.2.2 Software Users Manual for Map Server 2.0

The contractor shall provide updates to the Software User's Manual for Map Server Build 3.0.

Description:

This task includes adding the updates that reflect the latest functionality upgrades for Map Server Build 2.0 to the Software User's Manual. This task includes all document reviews (both internal and government), document editing and revisions required to publish a final approved document.

Deliverables by WBS

PA.7.2.2	A039	Technical Manual, Software Users Manual (TB-10) for Map Server 2.0
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7.3 Technical Manuals

The contractor shall develop and update technical manuals (TM's) for DTSS Operator's (-10) and maintenance personnel (-23, 23P) with all information and instruction required to operate and maintain the DTSS and Map Server Systems.

Description:

Activities in this task include:

- Update The DTSS Operators Technical Manual (-10)
- Update The DTSS Maintenance Technical Manual (-23)
- Develop change pages to existing Technical Manuals

Deliverables by WBS

PA.7.3.1	A037	Technical Manual, Operator's (-10), DTSS-D
PA.7.3.2	A037	Technical Manual, Operator's (-10), DTSS B
PA.7.3.3	A037	Technical Manual, Operator's (-10), DTSS-L
PA.7.3.4	A038	Technical Manual, Maintenance (-23) DTSS-L
PA.7.3.5	A038	Technical Manual, Maintenance (-23P) DTSS-L

7.3.1 Changes to old TMs and TBs

The contractor shall develop change pages to published technical manuals and technical bulletins

(both internal and government), document editing and revisions and equipment required to produce a final accepted TET module.

Deliverables by WBS

PA.7.10.1 A054 Training Materials, Embedded Training, DTSS Build 9.0

7.10.2 Map Server 2.0

The contractor shall develop ET for Map Server Build 2.0.

Description:

This task is for the development of a multi-media, ET module in support of Map Server Build 2.0 to meet the US Army requirement for embedded training. This task includes all reviews (both internal and government), document editing and revisions and equipment required to produce a final accepted ET module.

Deliverables by WBS

PA.7.10.2 A054 Training Materials, Embedded Training, Map Server 2.0

7.11 Modification Work Orders and Configuration Changes

The contractor shall develop Modification Work Orders (MWOs) and configuration changes for the upgrades of DTSS systems. This is a summary task.

Description:

This task includes the development of MWOs and configuration changes that provide for the retrofit of previously delivered DTSS systems. The changes and MWOs shall include all information necessary for the modification and installation of new equipment, changes to the drawing packages and technical data, and changes to the technical manuals.

Activities in this task include:

- DTSS-H MWOs and Configuration Changes
- DTSS-L MWOs and Configuration Changes

7.11.1 DTSS-L MWOs and Configuration Changes

The contractor shall develop MWOs and configuration changes for the DTSS-L.

Description:

This task includes the development of MWOs and configuration changes that provide for the retrofit of previously delivered DTSS-L systems. The changes and MWOs shall include all information and drawings necessary for the modification and installation of new equipment. This task includes all document reviews (both internal and government), document editing and revisions required to produce a final document. Also, this element covers the execution of the modifications at the various Army installations.