

**Program Executive Office (PEO)
Standard Army Management
Information Systems (STAMIS)**



INTERFACE AGREEMENT

**Transportation Coordinators' Automated Information
for Movement System II (TC-AIMS II)**

and

**Transportation Coordinators' Automated Command and
Control Information System (TC ACCIS)**

Prepared by:

TC-AIMS II Joint Project Management Office (JPMO)

Attn.: SFEA-PS-TC

9350 Hall Road, Suite 142

Fort Belvoir, VA 22060-5526

Approved by:

Signature

Date

Stanford I. Polonsky JR
Project Officer
JPMO, TC-AIMS II

(signed)

09 Dec 1998

Brian Coady
Project Officer
TC ACCIS

(signed)

09 Dec 1998

**INTERFACE AGREEMENT
BETWEEN TC-AIMS II and TC ACCIS**

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INTERFACE AGREEMENT BETWEEN TC-AIMS II and TC ACCIS

1 General.

1.1 Purpose.

The purpose of this Interface Agreement (IA) is to define and establish the functional and physical interface between the Transportation Coordinator's Automated Command and Control Information System (TC ACCIS) and the Transportation Coordinators' - Automated Information for Movement System II (TC-AIMS II).

1.2 Scope

This interface agreement applies to the Services' functional proponents, software developers, operators, users, and other agencies involved with the transfer of data between TC ACCIS and TC-AIMS II. This IA encompasses requirements pertaining to data, physical and logical interfaces, communications, service levels, and security.

1.3 Functional Requirement.

This interface agreement defines both a one-way data exchange of US Army unit equipment and cargo data from TC AIMS II to TC ACCIS, and a separate data conversion program from TC ACCIS to TC AIMS II.

1.4 Interface Overview.

Data records to be exchanged will be in a DOS formatted American Standard Code for Information Interchange (ASCII) text file format and accomplished using simple mail transfer protocol (SMTP) or file transfer protocol (FTP). The TC ACCIS to TC-AIMS II data transfer will be used for data conversion when installing TC-AIMS II software to replace TC ACCIS sites. The TC-AIMS II to TC ACCIS data transfer will be used to send unit data from TC-AIMS II systems to TC ACCIS sites.

1.5 Responsibilities.

1.5.1 TC-AIMS II Project Manager.

The TC-AIMS II Joint Project Management Officer (JPMO) will incorporate into TC-AIMS II the functionality and the capability to export the TC-AIMS II data files described in Appendix A, and accept the TC ACCIS data conversion files send as defined Appendix B.

1.5.2 TC ACCIS Project Manager.

The TC ACCIS Project Management Officer (PMO) will incorporate into TC ACCIS the functionality necessary to import and process the data files, described in Appendix A and will

ensure that all necessary extant TC ACCIS data elements are made available to TC AIMS II for data conversion and incorporation into the latter system as defined in Appendix B.

1.6 System Changes

1.6.1 General.

During the life cycles of TC ACCIS and TC-AIMS II, the PMO of either system may discover new or changed operational requirements that will affect this interface. All affected parties will be notified in writing 120 days prior to implementing the proposed/required change(s).

Notification will clearly describe the intended change(s) and will identify transaction changes that will affect the interface between TC ACCIS and TC-AIMS II. Modifications to TC-AIMS II will be submitted in accordance with established Configuration Management (CM) procedures and approved by the JPMO or the Joint Configuration Control Board (CCB). The party making the change will initiate the required notification.

1.6.2 Regulatory Changes.

If a procedural change is the result of a Service or Agency regulatory change, both parties to the IA will agree on the implementation actions and an effective date.

1.6.3 Functional or Technical Changes.

Changes that result in functional, technical or procedural changes, or changes to standard data tables and elements affecting only one system will be initiated by the responsible PMO. That system's PMO will propose a mutually acceptable implementation date for the change(s).

1.6.4 Year 2000 (Y2K) Compliance

The April 1997 DOD Year 2000 Management Plan directs system developers and maintainers, along with the system's functional proponent, to certify and document each systems Year 2000 (Y2K) compliance. Both the TC-AIMS II and TC ACCIS software suite are expected to be certified Y2K compliant, NLT 1 Feb 99. The interface exchange date data requires Y2K compliance or implementation of consistent Y2K corrections to enable correct date data passage between TC ACCIS and TC-AIMS II

1.6.5 Modifications.

Upon agreement, all modifications to this interface will be documented herein and recorded on the change sheet. Revised page(s) will be produced and the revised IA signed and dated by all concerned parties.

1.7 Life Cycle Maintenance.

This agreement will be reviewed and augmented as required.

2 TC-AIMS II Attributes

2.1 System Attributes.

The TC-AIMS II is a top-down directed program that addresses a critical shortfall in the movement of material and personnel in support of the Department of Defense (DOD) transportation operations as defined in the TC-AIMS II Mission Need Statement (MNS). TC-AIMS II falls within the DOD mission area supporting mobility and transportation of DOD personnel and cargo. TC-AIMS II will provide unit movement officers (UMO) and Installation Transportation Office/Transportation Movement Offices (ITO/TMO) throughout DOD with a single, effective, and efficient automated information system (AIS) to manage unit movement, passengers, and cargo within the Defense Transportation System (DTS) during day-to-day and contingency operations.

The TC-AIMS II development is a joint effort of the U.S. Armed Forces and the JPMO headed by the U.S. Army as the Executive Agent and provides automated support to those functions performed by UMOs and ITOs/TMOs, who previously used a variety of manual processes and service unique AISs. The TC-AIMS II goal is to improve and expedite unit movements, transportation operating agencies' actions, and provide timely and accurate information for use at the joint deployment community's command levels in support of Continental United States (CONUS), Outside the Continental United States (OCONUS), and in-theater Reception, Staging, Onward Movement and Integration (RSO&I) operations.

The TC-AIMS II system includes software and processes installed on service provided hardware that supports unit movement, for both deployment and re-employment, and sustainment transportation functions, as well as provide access to various load-planning functions. These functions are available to the TC-AIMS II user from a client/server network or stand-alone configuration at the unit/installation level whether in-garrison or deployed. Processing, tracking, and reporting of data from TC-AIMS II will be available to decision-makers at various command levels via the In-transit View (ITV) capability of the Global Transportation Network (GTN).

2.2 Hardware.

The TC-AIMS II program is designed to operate on hardware provided by the Services in both client/server and standalone configurations. The client and standalone workstation hardware platforms require a Pentium II computer or higher with 64 MB of RAM and 4 GB hard disk. The server requires a Pentium II processor or higher with 256 MB RAM and 5GB hard drive.

2.3 Software.

TC-AIMS II client/server and standalone workstation platforms run under MS Windows NT (workstation) supporting a Sybase relational database. The server configuration runs under MS Windows NT (server) supporting a Sybase relational database.

2.4 Interface Attributes

2.4.1 Data Exchange.

The intended method of data exchange for this interface is electronically by means of FTP or a file embedded in an E-mail set via SMTP. 3.5" HD will be used as a backup if electronic means is not available. The data will be in a formatted ASCII text file without encryption.

2.4.2 Procedures.

TC-AIMS II will import the data into the Unit Deployment List (UDL) table to support the conversion of TC ACCIS sites to TC-AIMS II and will export data to TC ACCIS site for material movement planning and execution.

2.4.3 Priority.

The processing priority for this interface will default to routine.

2.4.4 Communications.

The exchange of information will be accomplished by means of a DOS formatted ASCII textual data file on a 3.5" HD diskette or Local Area Network (LAN). The actual interfacing will be done manually.

2.5 Service Levels.

No service levels for this interface will be established. Data will be passed on an as required basis. No special processing is required.

2.6 Points of Contact.

2.6.1 Functional.

LtCol Jim Wakeley, USAF
Attn.: SFEA-PS-TC
9350 Hall Road, Suite 142
Fort Belvoir, VA 22060-5526
Tel: (703) 923-1026

2.6.2 Technical, Communications and Security.

Mr. Willie Jones JR
Attn.: SFEA-PS-TC
9350 Hall Road, Suite 142
Fort Belvoir, VA 22060-5526
Tel: (703) 923-1008

2.7 Security.

TC-AIMS II is an unclassified system containing Sensitive But Unclassified (SBU) information. TC-AIMS II will operate in the systems high mode in accordance with a C2 level of accreditation based on the DoD 5200.28-STD. The TC-AIMS II architecture has been designed with protective mechanisms that ensure the data confidentiality, integrity and availability of the data being transmitted including:

- Safeguards protecting data from virus or malicious logic
- Diskette will be handled and controlled per local security policies

2.8 Communication Verification.

Communications protocols include verification and notification modules to provide the sender notification of successful/non successful file transfer. Recovery from file transfer problems is built into the various communications protocols. If this built-in recovery function does not result in successful file transfer, retransmission of the entire file is required.

2.9 System Support.

The JPMO will maintain a Help Desk on a 24 hour, 7-day per week basis, to receive, coordinate, and resolve system problems referred to it from Service users. The Help Desk will provide a single source problem resolution interface with the software developers, as cited in the ILS, and with other support activities, e.g., DOIM/CSO/ISMO.

2.10 Data Requirements. (from TC-AIMS II to TC ACCIS)

2.10.1 TC ACCIS Data Record. (Appendix A, Table A-1).

This file contains unit, echelon, vehicle and load characteristics data for US Army assigned equipment.

3 TC ACCIS Attributes

3.1 System Attributes.

TC ACCIS is the United States Army's automated management information system designed to support the deploying units and installation Transportation offices in their efforts to provide timely and accurate movement data to the joint deployment community. It has a direct interface with United States Forces Command's (FORSCOM) Computerized Movement Planning and Status System (COMPASS) and through COMPASS to the Joint Operations Planning and Execution System (JOPES). TC ACCIS also supplies information to the MTMC Integrated Booking System (IBS) for surface moves and to the Logistics Support Activity's Logistical Intelligence File (LIF) for in-transit and total asset visibility of Army unit movements.

3.2 Hardware.

TC ACCIS uses a COMPAQ 4500 system at the installation level and 486 or higher personal computer (PC) terminals at the unit level. Additional equipment required to support the TC ACCIS application is line printers, MSL printers, scanners, disk drives, and modems.

3.3 Software.

TC ACCIS client/server operating system is SCO Unix Domestic Version 3.2.5.0 supporting an Informix Dynamic Server Relational Database Management System (RDBMS) Version 7.20, Informix 4GL Compiler: Run Time Application Execution Version 6.03 and Kermit Version 3.14.

3.4 Interface Attributes.

3.4.1 Data Exchange.

The intended method of data exchange for this interface is electronically by files embedded in, as opposed to attached to, SMTP e-mail or by FTP. Included files appear as ASCII text within the body of the email message. Attached files commonly appear as ICONS, either within the body of the email message or in some other reserved area, depending on the email software program. 3.5" HD diskette will be used if electronic means is not available. The data will be in a DOS formatted ASCII text file without encryption. For specifics of the TC-AIMS II to TC ACCIS data transfer, reference Appendix D, TC ACCIS/TC-AIMS II Interface Communications Technical Update.

3.4.2 Procedures.

TC ACCIS will import unclassified movement planning data to support deployment planning and execution identified in Appendix A and will export for data conversion data in Appendix B. For specifics on data transfer procedures from TC AIMS II to TC ACCIS, see Appendix C, Procedures Guide for Processing TC AIMS II Unit Data into the TC ACCIS Database, February 27, 1998.

3.4.3 Priority.

The processing priority for this interface will default to routine.

3.4.4 Communications.

The actual interfacing will be done manually by means of files INCLUDED (imbedded) in SMTP E-mails or via FTP. 3.5" HD diskette will be used if electronic means is not available.

3.5 Service Levels.

No service levels for this interface will be established. Data will be passed on an as required basis. No special processing is required.

3.6 Point of Contact:

3.6.1 Functional and Technical.

Mr. Brian Coady
ATTN: SFEA-PS-TC
9350 Hall Road, Suite 142
Fort Belvoir, VA 22060-5526
Tel: (703) 923-1062

3.7 Security.

Data exchanged through this interface have been established as sensitive but unclassified (SBU) and will be will be controlled using respective Service and local Security Office procedures.

3.8 Communication Verification.

Communications protocols include verification and notification modules to provide the sender notification of successful/non successful file transfer. Recovery from file transfer problems is built into the various communications protocols. If this built-in recovery function does not result in successful file transfer, retransmission of the entire file is required.

3.9 System Problems.

Problems encountered will be referred to the TC ACCIS PMO Customer Support Help Desk for resolution. CONUS customers can reach the Help Desk at (800) 635-0921 X1060. OCONUS customers can reach the Help Desk at (703) 923-1060.

3.10 Data Requirements. (from TC ACCIS to TC-AIMS II)

TC-AIMS II will import the data into the Unit Deployment List (UDL) table to support the conversion of TC ACCIS sites databases to TC-AIMS II.

3.10.1 Data Conversion Elements (Appendix B, Table B-1, B-2 and B-3)

The data conversion record consists of 3 parts, Table B-1, Unit Reference Data Record, Table B-2, Equipment List/Vehicle Loaded Data Record and Table B-3, Vehicle Loads Data Record.

Appendix A, TC-AIMS II to TC ACCIS File Structure and Record Layout Information

Table A-1, TC ACCIS Data Record

DESCRIPTION	*RECORD	WIDTH	TYPE/CLASS	REMARKS
Rec Type	1	2	CHAR	5 fields of Echelon Info.

DESCRIPTION	*RECORD	WIDTH	TYPE/CLASS	REMARKS
TDC	2	2	Char	
Unit Identification Code	3	6	Char	
Echelon/Unit Line Number	4	7	Char	
Strength	5	5	Smallint	
Rec Type	1	1	CHAR	37 fields of UDL Information
TDC (plan)	2	2	Char	
Unit Identification Code (UIC)	3	6	Char	
Echelon/Unit Line Number	4	7	Char	
Lin	5	6	Char	
Lin Index	6	2	Char	
Actual Weight	7	9,0	Decimal	
Equipment Weight	8	1	Char	
Bumper Number	9	7	Char	
Cuft of the Loads	10	8,0	Decimal	
Height	11	6,1	Decimal	
Hazardous Indicator	12	1	Char	
Length	13	6,1	Decimal	
Load Code	14	1	Char	Blank or y/n
Load Remarks	15	50	Char	BLANK
Load Indicator	16	1	Char	(a-z)
Description	17	50	Char	
Method of deployment	18	1	Char	
Model	19	12	Char	
Mode to Port of Embarkation	20	1	Char	
Oversize (dim/weight) Indicator	21	1	Char	BLANK
Prime Mover/Trailer SUN	22	7	Char	BLANK
Quantity	23	10	Integer	
Serial number	24	18	Char	
Special Handling Code	25	1	Char	
Short Tons	26	7,0	Decimal	
SUN	27	5	Char	
Tons	28	6,1	Decimal	
Type Cargo Code	29	1	Char	
Type Pack Code	30	2	Char	
Vehicle Indicator	31	1	Char	
Waiver	32	1	Char	
Water Commodity Code	33	3	Char	
Weight	34	10	Integer	
Weight of Loads	35	9,0	Decimal	BLANK or 0
Width	36	6,1	Decimal	
Date/Time Record Modified	37	19	Char	Date and time of modification
*Note that TC ACCIS records are non positional				

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Appendix B, TC ACCIS to TC-AIMS II File Structure and Record Layout Information

Table B-1, Unit Reference Data Record

Description (TC ACCIS)	Pos	Width	Type	Remarks
UIC	1	6	Char	Unit Identification Code
Node ID	2	2	Char	Not Used
Service	3	1	Char	A, F, M, N
Unit Name	4	30	Char	
Unit Status	5	1	Char	D-Active; S-Reserve; O-Other
UIC Code	6	9	Char	Unit Code (CO, BN, DIV, etc)
Unit Type Code	7	5	Char	Not Used
DODAAC	8	6	Char	
UIC Address 1	9	35	Char	
UIC Address 2	10	35	Char	
City	11	20	Char	
State	12	2	Char	
Zip Code	13	10	Char	
UMO Name	14	20	Char	
UMO Title	15	20	Char	
UIC Superior	16	6	Char	
Level ID	17	1	Integer	1-6
Commercial Phone	18	12	Char	
Autovon Phone	19	8	Char	
Conus ID	20	1	Char	C(onus) - O(conus)
Store Site	21	1	Char	Y(es) or N(o)

Table B-2, Equipment List/Vehicle Loaded Data Record

Description (TC ACCIS)	Pos	Width	Type	Remarks
National Stock Number	1	13	Char	
Record Number	2	10	Integer	PKG_ID; Unique Vehicle Identifier
UIC	3	6	Char	Unit Identification Code
Type Data Code	4	2	Char	Plan; 2 Alpha Characters
Echelon/ULN	5	7	Char	Echelon/Unit Line Number
Sub-Type Data Code	6	1	Char	Storage Site (Reserve only)
SUN	7	5	Char	Shipping Unit number
LIN	8	6	Char	Line Item Number
Index	9	2	Char	00-99 AA-ZZ
Model	10		Char	
Equipment Description	11		Char	
Serial Number	12		Char	
Length	13	6.1	Decimal	0 - 99999
Width	14	6.1	Decimal	1 - 99999
Height	15	6.1	Decimal	0 - 9999
Tons	16	6.1	Decimal	0-99999; (act wt +99)/2000
Tons Measure	17	7.0	Decimal	0-9999999; cubic feet/40
Cubic Feet	18	8.0	Decimal	(L*W*H)/1728
Cubic Feet Load	19	8.0	Decimal	0-99999999
Cubic Feet Available	20	8.0	Decimal	Not Used
Weight Empty	21	8.0	Decimal	1-99999999

Description (TC ACCIS)	Pos	Width	Type	Remarks
Bumper Number	22	7	Char	
Standard Indicator	23	1	Char	Y(es) or N(o)
Square Foot	24	5.0	Decimal	1 - 99999
Weight Actual	25	9.0	Decimal	0 - 999999999
Weight Available	26	9.0	Decimal	0 - 999999999
Weight Loads	27	9.0	Decimal	0 - 999999999
Weight Maximum	28	9.0	Decimal	0 - 999999999
Mode of Deployment	29	1	Char	
Mode to Port of Embarkation	30	1	Char	
Cargo Category Code	31	4	Char	
Water Commodity Code	32	3	Char	
Type Cargo Code	33	1	Char	
Special Handling Code	34	1	Char	
Type Pack Code	35	2	Char	
Load Indicator	36	1	Char	Y(es) or N(o)
Load Exception	37	1	Char	Not Used
Air Dimension Code	38	1	Char	
Transportation Control Movement Document	39	1	Char	Not Used
Waiver	40	1	Char	X or Null
Tracked Vehicle	41	1	Char	T(rack) or W(heel)
Borrowed Indicator	42	1	Char	Y(es) or N(o)
UIC Owner	43	6	Char	UIC Owner of Borrowed Eq
Time Record Changed	44	8	Char	Time of last update
Date Record Changed	45	10	Date	Date of last update
Update Indicator	46	1	Char	A(dd) or U(pdate)
Approved	47	1	Char	Not used
Hazardous Flag	48	1	Char	Y(es) or N(o)
Vehicle Indicator	49	1	Char	V(ehicle) / T(railer)
Oversize Indicator	50	1	Char	Y(es) or N(o)
Load Remarks	51	50	Char	
Prime Trailer Number	52	7	Char	SUN of matched trailer/vehicle
DEL Selected	53	1	Char	X or Null (DEL only)
Compass Rejection Flag	54	1	Char	X or Null
RFT Date ID	55	10	Date	
RFT Sequence ID	56	3.0	Decimal	
RFT Selection Flag	57	1	Char	

Table B-3, Vehicle Loads Data Record

Description (TC ACCIS)	Pos	Width	Type	Remarks
National Stock Number	1	13	Char	
Load_Id	2	10	Integer	Unique Load Identification
Recordno	3	10	Integer	PKG_ID of Prime Mover
UIC	4	6	Char	Unit Identification Code
Loadcode	5	1	Char	A - Z
Quantity	6	10	Integer	1 - 9999
Weight	7	10	Integer	0 - 999999
Cubic Foot	8	10	Integer	1 - 999999999
Type Pack Code	9	2	Char	
Water Commodity Code	10	3	Char	

Description (TC ACCIS)	Pos	Width	Type	Remarks
Special Handling Code	11	1	Char	
Type Cargo Code	12	1	Char	
Hazard Flag	13	1	Char	Y(es) or N(o)
Type Equipment	14	1	Char	Type of equipment
SUN	15	6	Char	Shipping Unit number
Load Description	16	25	Char	
Length	17	9,1	Decimal	0 - 9999
Width	18	9,1	Decimal	1 - 99999
Height	19	9,1	Decimal	1 - 9999
LIN	20	6	Char	Line Item Number
Linindex	21	2	Char	00-99 AA-ZZ
Model	22	12	Char	
Standard Indicator	23	1	Char	Y(es) or N(o)
Compass Rejection	24	1	Char	
Parent UIC	25	6	Char	
Parent NSN	26	13	Char	
Parent Recordno	27	10	Integer	Parent PKG ID

Appendix C, Procedures Guide for Processing TC AIMS II Unit Data into the TC ACCIS database

PURPOSE

These procedures will be used to process TC AIMS II unit data for a single TDC into the TC ACCIS database.

SCOPE

The TC AIMS II to TC ACCIS data transfer will provide unit equipment and cargo data in support of deploying units. All updates to the unit's Deployment Equipment Lists (DEL) performed within TC AIMS II will be reflected in TC ACCIS to ensure that both TC AIMS II and TC ACCIS are synchronized. All communications with TC AIMS II will be initiated by TC AIMS II as they know when the data will be ready for transfer. The TC ACCIS processing procedures will automatically attempt to load and identify errors and/or ambiguities in the data. When the processing is complete, an error report will be available for TC AIMS II that identifies the errors/ambiguities that were identified and the reason why records that could not be processed were rejected. This information can be used by TC AIMS II personnel to change or update their data before the next transfer. The processing procedures will then store the TC AIMS II generated data in the TC ACCIS database. TC ACCIS personnel will not attempt to make any changes or updates to the stored data. Each transfer of TC AIMS II data will have a unique identification within the TC ACCIS system so multiple iterations can be maintained.

APPLICABILITY

These procedures are for use by the TC ACCIS Installation Transportation Office (ITO) after the unit data has been prepared by and sent from TC AIMS II by FTP, e-mail, or 3.5" high density diskette.

REQUIREMENTS

1. **General:** TC AIMS II personnel are responsible for preparing the data file. They will verbally inform TC ACCIS personnel when the data is ready for transfer, the method of transfer, and when the data has been transferred in order to prevent the overwriting of existing unprocessed data files still in TC ACCIS.
2. **Directories and User Access:** Prior to initiating these transfer procedures, the TC ACCIS Customer Support System Administrator must accomplish the following:
 - a. Create the necessary directories.
 - b. Add or modify all necessary user accesses.
 - c. Create address lists.

- d. Place the executable files in the /trans/TC ACCIS/comm/tcaims directory.

3. File Naming Conventions:

- a. The TC AIMS II data file will be named tcaimsii.dat and will conform to the DOS 8.3 naming convention. The format for the data will be one record per line. There will be an end-of-file record following the last data record. It will be a separate line containing only EOF (NOTE that nothing must follow the EOF, not even a RETURN).
- b. The program called aims2 will be a stand-alone program to split the data file and to call the DB load program. The aims2 program will be executed by logging in as tcaimsii after any transfer.
- c. There will be an e-mail stripping program called "aims1" that will be called by the mail system to remove header information from all TC AIMS II e-mails. When the e-mail stripping program is done, an e-mail will be sent to root at the TC ACCIS site informing him/her that TC AIMS II data has been received, stripped, and is ready for processing.
- d. All communications including file transfers, receipt of files, and database loading should be verbally notified/confirmed.

4. Interface Methods: TC AIMS II unit data can be transferred by FTP, e-mail, or 3.5" high-density diskette. The data file content will be the same, regardless of transfer method. Text will be used for all files.

- a. The FTP interface method will be an FTP from TC AIMS II to TC ACCIS. This is because TC AIMS II knows when the data is ready for transfer.
 - (1) TC ACCIS will provide a login to TC AIMS II. The login will be "tcaimsii" in lower case. This will be a restricted shell user.
 - (2) The TC ACCIS home directory for the FTP login tcaimsii (lower case) will be /trans/TC ACCIS/comm/tcaims.
 - (3) TC AIMS II will verbally notify TC ACCIS when the data is ready for transfer and when the data has been transferred. This coordination will prevent the overwriting of the data file.

- (4) The data file name when received by TC ACCIS will be "tcaimsii.dat" without the quotes and in lower case.
 - (5) When the data is ready for transfer, TC AIMS II will FTP the data to TC ACCIS.
 - (6) The program aims2 will split the tcaimsii.dat file into three files: ech.upl, uln.upl, and inv.dat. These files will be used as input to the DB load program. These files will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.
 - (7) When the data has been successfully "loaded", the data file (tcaimsii.dat), upload log, and error log (and error report, if any) will be packed and placed into a /trans/TC ACCIS/comm/tcaims/archive directory. A file called "upload.done" containing the date and time stamp of the successful DB load will be placed in tcaimsii home directory. TC AIMS II should retrieve this file for information purposes.
 - (8) If the files do not load, the files tcaimsii.dat, invalid data file, the error log and upload log, and error report will be placed in the /trans/TC ACCIS/comm/tcaims/badarch directory. The files in this directory will not be deleted. If a file called "upload.fail" containing the date and time stamp of the failed DB load will be placed in tcaimsii home directory. TC AIMS II should retrieve this file for information purposes.
- b. The e-mail will be from TC AIMS II to TC ACCIS.
- (1) The e-mail address will be the same as the FTP login, which is "tcaimsii".
 - (2) The e-mail message will not use any special flags such as a return receipt,
 - (3) No more than one (1) data file will be included in each e-mail message.
 - (4) The subject of the e-mail will be "tcaimsii data" without the quotes (upper and lower case permitted).
 - (5) The program aims1 will strip the e-mail into the file tcaimsii.email.

- (6) The program aims2 will move the tcaimsii.email file to the tcaims.dat file which will be processed and passed as input to a DB load program. This file will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.
 - (7) When the data has been "loaded", the files tcaimsii.dat, invalid data file, the error log, and error log and error report, if any, will be packed and placed into a /trans/TC ACCIS/comm/tcaims/archive. An e-mail with a subject of "Upload Done" containing as text the date and time stamp of the successful DB load will be sent to TC AIMS II.
 - (8) If the file does not load, the files tcaimsii.dat, invalid data file, the error log and report and upload log will be placed in the /trans/TC ACCIS/comm/tcaims/badarch directory. The file will not be deleted from this directory. An e-mail with a subject of "Upload Fail" containing as text the date and time stamp of the failed DB load will be sent to TC AIMS II.
- c. The 3.5" diskette with data file from TC AIMS II will be given to TC ACCIS.
- (1) The diskette will be 3.5" high density.
 - (2) There will be only 1 data file per diskette.
 - (3) The program aims2 will copy tcaimsii.dat from the floppy to the tcaimsii home directory as tcaims. The file will be split into ech.upl, uln.upl, and an invalid data file. These files will be passed as input to a DB load program. This file will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.
 - (4) When the data has been "loaded", the files tcaimsii.dat, invalid data file, the error log and report, and update log will be packed and placed into a /trans/TC ACCIS/comm/tcaims/archive. A file called "upload.don" containing the date and time stamp of the successful DB load will be placed on the floppy.
 - (5) If the file does not load, the files tcaimsii.dat, invalid data file, the error log and report and upload log will be placed in the /trans/TC ACCIS/comm/tcaims/badarch directory. The file will not be deleted from this directory. A file called "upload.fai" containing the date and time stamp of the failed DB load will be placed on the floppy.

5. **Use of TC ACCIS During Processing:** No other users can be in or using TC ACCIS while the TC AIMS II data is being processed by the aims2 program. The TC ACCIS ITO is responsible for ensuring that all other users are out of the system before the processing begins.
6. **Type Data Code (TDC):** These procedures will prompt the user to enter the TDC for the TC AIMS II data being transferred. Prior to initiating these procedures, the ITO should verify that the TDC to receive the data exists in TC ACCIS. If it does not, use the procedures in Section 6 - (ITO Equipment List Processing) of the TC ACCIS End User Manual to create it. The ULN should also be created. See procedures in TC ACCIS End User Manual Paragraph 6.3.1.1.

PROCEDURES

The following procedures will be used by TC ACCIS personnel to process the TC AIMS II data.

1. After receiving an acknowledgement of the e-mail or FTP'd file in the home directory, or the diskette in the disk drive, then:

Log in as:	tcaimsii
Enter password	smiact

2. After the login, **aims2** will start processing the data file. The following messages may appear:

Setting Environment

Checking for TC ACCIS users...

- a. If there are users in TC ACCIS, you will see:

There are users in TC ACCIS

Checking for Database users...

- b. If there are users in the database, you will see:

Database being used by __

- c. If there has been an FTP and E-mail file sent at the same time, delete tcaimsii.dat or tcaims.email. You will see:

ERROR There are too many files!! Determine which file should be used. Delete the other and rerun this program

Obtaining data...

- d. You will see one of the following:

Found e-mail data

Found FTP data

Getting floppy data

- e. If you try to process the same floppy twice, you will get this message:

ERROR More than one file found on floppy. ABORT

- f. If the program is unable to find E-mail, FTP, or floppy data, this message appears:

ERROR No file found. ABORT

- g. If the data file is incomplete, then:

ERROR Incomplete file. EOF missing

- h. If there is no error, then:

Processing data

Splitting data

Removing slashes

Enter the TDC

3. The EUF074 window will open prompting for a TDC. [F6 Help is available and CTRL-C can abort this process. This is the only place in the load process where CTRL-C is allowed.]
4. After entering a valid TDC, press ESC to continue processing.

5. Part 1 of the database load program will attempt to identify any errors/anomalies. Preliminary checking will occur on each SUN and Echelon record. If there is a problem, the following message appears.

Load failed

6. When Part 1 completes successfully, a message appears **Preparing Error Report...Please Wait** followed by Report Created.
7. If there aren't any problems, Part 2 will start processing the data. The message **Processing...Please Wait** will appear. This portion of the database load program will perform counts, then insert data into the TC ACCIS tables.

Processing good

Loading data

8. When the process is complete, a result report will be printed.

Load successful

Or

Load failed

OUTPUTS

There are two possible outputs from the data transfer process. If for any reason the data file can not be processed, a message will be sent by e-mail to the TC ACCIS root and to TC AIMS II (if the data was sent by e-mail) that the file can not be processed and has been rejected. If the data file can be processed, an error report will be sent by e-mail to the TC ACCIS ITO and to TC AIMS II.

- a. The error report will identify up to three categories of errors:

- (1) **Critical Errors**: The following type errors will cause the individual piece of equipment or load to be rejected. If the data file has an error, no records will be loaded. They will need to be corrected before the item can be included in the TC ACCIS database.

CRITICAL (Error Code = 1):

Error occurred while Loading Echelon Data
Error occurred while Loading Equipment Data
A Vehicle or Load does not contain a UIC
TDC is NULL or blank in Echelon Data
UIC is NULL or blank in Echelon Data
ULN is NULL or blank in Echelon Data

Error Report Message

“LOAD FAILED (Echelon Data)”
“LOAD FAILED (Equipment Data)”
“Missing UIC”
“Missing TYPE DATA CODE (Echelon Data)”
“Missing UIC (Echelon Data)”
“Missing ULN (Echelon Data)”

A Vehicle or Load does not contain a SUN	“Missing SUN”
A Load exists without a Parent Vehicle/Trailer	“LOAD missing Parent record”
After preliminary checks, No records left in Preliminary Equipment Table	“Prelim. Table is empty; can not proceed”
A Vehicle’s (D records) LIN and/or LININDEX is Blank	“LIN and/or LININDEX is Blank”

(2) **Moderate Errors:** The following type errors will not preclude the piece of equipment or load from being included in the TC ACCIS database but it may cause problems when processed by the TC ACCIS software. They should be given a high priority for correction.

MODERATE (Error Code = 2):

Mode to Port is blank
 Vehicle’s LIN or LININDEX is not valid according to TC ACCIS’s Ecr Table
 Vehicle’s Length is 0 or blank (valid LIN/LININDEX)
 Vehicle’s Height is 0 or blank (valid LIN/LININDEX)
 Vehicle’s Width is 0 or blank (valid LIN/LININDEX)
 The code that identifies a specific Load, is blank
 Method of Deployment code is blank and the ULN does not exist in the TC ACCIS Echelon Table
 Vehicle/Load waiver is not set for Cuft Load.
 Vehicle/Load waiver is not set for Weight.
 Vehicle/Load waiver is not set for Height.
 Vehicle/Load waiver is not set for Length.
 Vehicle/Load waiver is not set for Width.

Error Report Message

“Missing Mode to Port: Set to ‘K’ ”
 “LIN/LININDEX does not exist in ECR”
 “LENGTH was 0 or Blank; Set to ECR Length”
 “HEIGHT was 0 or Blank; Set to ECR Height”
 “WIDTH was 0 or Blank; Set to ECR width”
 “LOAD CODE was blank; Set to ‘Z’ ”
 “ULN does not exist; DMOD set to ‘Z’ “
 “Needs a WAIVER for CUFTLOAD “
 “Needs a WAIVER for WEIGHT “
 “Needs a WAIVER for HEIGHT “
 “Needs a WAIVER for LENGTH “
 “Needs a WAIVER for WIDTH“

(3) **Minor Errors:** The following type errors will not preclude the piece of equipment or load from being included in the TC ACCIS database but this may cause the TC ACCIS software to produce incomplete information. They should be corrected as soon as possible to ensure accurate information in TC ACCIS. They should be given a high priority for correction.

MINOR Level (3) :

Vehicle/Load Date Modified is blank
 Vehicle/Load Time Modified is blank
 F Record/Load Equipment Type is blank and NO LIN/LININDEX
 F Record/Load Special Handling Code is blank and NO LIN/LININDEX
 F Record/Load Type Cargo Code is blank and NO LIN/LININDEX
 F Record/Load Water Comm Code is blank and NO LIN/LININDEX
 Vehicle/Load Type Pack Code not in Reference Table
 Vehicle/Load Water Commodity Code not in Ref. Table
 D/F records, Special Handling code can only be 2,4,9

Error Report Message

“DATE MODIFIED is blank; Set to TODAY”
 “TIME MODIFIED is blank; Set to TODAY”
 “Equipment Type is blank; Set to ‘Z’ “
 “Spc Handling Code is blank; Set to ‘9’ “
 “Type Cargo Code is blank; Set to ‘Z’ “
 “Water Comm Code is blank; Set to ‘700’ “
 “Invalid TYPE PACK CODE: <value> “
 “Invalid WATER COMMODITY CODE: <value> “
 “Invalid SPECIAL HANDLING CODE: <value> “

Vehicle/Load Type Cargo code not in Reference Table
 Vehicle/Load Equipment Type not in Reference Table

“Invalid TYPE CARGO CODE: <value> “
 “Invalid EQUIPMENT TYPE: <value> “

b. A sample copy of a typical two-part error report appears below.

DATE: 11-Mar-1998 TC AIMSII / TC ACCIS SYNCHRONIZATION PAGE: 253
 TIME: 10:41:26 PART 1 RESULTS REPORT

CODE	PLAN	UIC	SUN	ULN	ERROR DESCRIPTION	STATUS
2	B1	WZKBAA	D0002		ULN does not exist; DMOD set to 'Z'	I
2	B1	WZKBAA	D0002		Missing Mode to Port; Set to 'K'	I
2	B1	WZKBAA	D0002		Needs a WAIVER for CUFT LOAD	I
2	B1	WZKBAA	F0001		Missing Mode to Port; Set to 'K'	I
2	B1	WZKBAA	F0001		ULN does not exist; DMOD set to 'Z'	I
2	B1	WZKBAA	F0001		Needs a WAIVER for CUFT LOAD	I

Echelon Records: Received: 1 Inserted: 1 Rejected: 0
 Equipment Records: Received: 3002 Inserted: 3000 Rejected: 2

LEGEND:

Error Codes: 1 - Critical 2 - Moderate 3 - Minor
 Status Codes: I - Inserted R - Rejected

DATE: 11-Mar-1998 TC AIMSII / TC ACCIS SYNCHRONIZATION PAGE: 1
 TIME: 10:18:42 PART 2 RESULT ERROR REPORT

CODE	PLAN	UIC	SUN	ULN	ERROR DESCRIPTION	STATUS
Part 2 Finished						

Echelon Records:	Equipment Records:
Received: 1	Received: 3002
Inserted: 0	Inserted: 3000
Updated : 0	
Rejected: 0	Rejected: 0

LEGEND:

Error Codes: 1 - Critical 2 - Moderate 3 - Minor
 Status Codes: I - Inserted R - Rejected

Appendix D, The TC ACCIS/TCAIMSII Interface Communications Technical Update 6

References:

A. TC AIMS II to TC ACCIS Interface Technical Report, dated 16 January 1998, by Alain Wampouille, RAM Inc.

B. Meeting between Alain Wampouille and David Sauerbry on 22 January 1998 at 9:30.

C. Meeting between TC ACCIS and TC AIMS II on January 27, 1998 at 10:00.

D. Info received from Todd Cavanaugh on Feb 26, 1998.

Purpose

1. Describe the TC ACCIS / TC AIMS II Interface findings, requirements, considerations, concerns and recommendations. This is a working technical paper and will be updated as necessitated by development.

Findings

1. All communications with TC AIMS II should be initiated by TC AIMS II as they know when they have the data ready for transfer.

2. The GNU program gzip will be not be used for data compression per ref D. This will present a problem with a large file on floppy disk.

Requirements

1. The name of the data file when it arrives at TC ACCIS will be "tcaimsii.dat" without the quotes and case sensitive for ftp and e-mail and "tcaimsii.dat" without the quotes and case sensitive for floppy as we must stay within the 8.3 name convention . The format of the data will be one record per line. There will be an end-of-file record following all of the data records. It will be a line containing only "EOF" without the quotes and case sensitive.

2. There will be three different interface methods. They are FTP, SMTP and 3.5 inch Diskette.

- The FTP interface method will be an FTP from TC AIMS II to TC ACCIS. This is because TC AIMS II knows when the data is ready for transfer.

1. TC ACCIS will provide a login to TC AIMS II. The login will be "tcaimsii" which is case sensitive. This will be a restricted shell user.

2. The TC ACCIS home directory for the FTP login tcaimsii will be /trans/TC ACCIS/comm/tcaims which is case sensitive.
 3. TC AIMS II will verbally notify TC ACCIS when the data is ready for transfer and when the data has been transferred. This coordination will prevent the overwriting of the data file.
 4. The data file name when received by TC ACCIS will be "tcaimsii.dat" without the quotes and case sensitive.
 5. When the data is ready for transfer, TC AIMS II will ftp the data to TC ACCIS.
 6. To process the new data, login as "tcaimsii". The aims2 program will be called to process the data.
 7. The program aims2 will split the tcaimsii.dat file into three files ech.upl, uln.upl and inv.dat. These files will be used as input to the DB load program. These file will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.
 8. When the data has been "loaded", the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in the /trans/TC ACCIS/comm/tcaims/archive directory. The files will not be deleted from this archive directory. A file called "upload.done" containing the date and time stamp of the successful DB load will be placed in tcaimsii home directory. TC AIMS II should retrieve and then delete the file.
 9. If the file does not load, the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in the /trans/TC ACCIS/comm/tcaims/badarch directory. The files in this directory will not be deleted. A file called "upload.fail" containing the date and time stamp of the failed DB load will be placed in tcaimsii home directory. TC AIMS II should retrieve and then delete the file.
- The SMTP or e-mail will be from TC AIMS II to TC ACCIS.
 1. The e-mail address will be the same as the ftp login, which is "tcaimsii".
 2. The e-mail message will not use any special flags such as return receipt.
 3. No more than one (1) data file will be included in each e-mail message.

4. The subject of the e-mail will be "TCAIMSII data", without quotes and case sensitive.
 5. The program aims1 will strip the e-mail into the file tcaimsii.email.
 6. To process the new data, login as "tcaimsii". The aims2 program will be called to process the data.
 7. The program aims2 will move the tcaimsii.email file to the tcaims.dat file which will split the tcaimsii.dat file into three files ech.upl, uln.upl and inv.dat; then passed as input to a DB load program. This file will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.
 8. When the data has been "loaded", the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in an /trans/TC ACCIS/comm/tcaims/archive. An e-mail with a subject of "Upload Done" containing as text the date and time stamp of the successful DB load will be sent to TC AIMS II.
 9. If the file does not load, the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in the /trans/TC ACCIS/comm/tcaims/badarch directory. The file will not be deleted from this directory. An e-mail with a subject of "Upload Fail" containing as text the date and time stamp of the failed DB load will be sent to TC AIMS II.
- The Floppy disk will be generated by TC AIMS II and given to TC ACCIS.
 1. The diskette will be 3.5" high density.
 2. There will be only 1 data file per diskette.
 3. Insert the 3.5' floppy disk in the drive on the TC ACCIS computer.
 4. To process the new data, login as "tcaimsii". The aims2 program will be called to process the data.
 5. The program aims2 will copy the file from the floppy to the tcaimsii home directory as the file tcaims. The file will be split into ech.upl, uln.upl and an invalid date file. These files will be passed as input to a DB load program. This file will be located in the tcaimsii home directory which is /trans/TC ACCIS/comm/tcaims.

6. When the data has been “loaded”, the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in an /trans/TC ACCIS/comm/tcaims/archive. A file called “upload.don” containing the date and time stamp of the successful DB load will be placed on the floppy.
 7. If the file does not load, the data file (tcaimsii.dat), process output, reports and any errors will be packed and put in the /trans/TC ACCIS/comm/tcaims/badarch directory . The file will not be deleted from this directory. A file called “upload.fai” containing the date and time stamp of the failed DB load will be on the floppy.
- The program called “aims2” will be a stand-alone program to split the data file and to call the DB load program. The aims2 program will be executed by logging in as tcaimsii after any transfer. This manual initiation by login is required to prevent conflicts with other users of the database.
 - There will be an e-mail stripping program called “aims1” that will be called by the mail system to remove header information from all TC AIMS II e-mails. When the e-mail stripping program is done, an e-mail will be sent to postmaster at the site informing him/her that TC AIMS II data has been received, stripped and is ready for processing.
 - All communication including file transfers, receipt of files and database loading should be verbally notified/confirmed.
 - An e-mail notification of Database load status will be sent to root, the tcaimsii-stat address list at belvoir-TC ACCIS.army.mil and the from addressee on an e-mail

Considerations

1. The data file content will be the same, without regard to transmission media (ftp, smtp or disk). Text will be used for all files.
2. A TC AIMS II point of contact will be needed for development and testing with TC AIMS II.
3. There can be no users in or using the TC ACCIS system while the TC AIMS II data is being processed by aims2.
4. The addition of the tcaims user and the creation of the home directory will be done by hand, by the TC ACCIS SA’s from a prepared list of instructions so

that this setup may be reproduced at a different site or automated if necessary.
This includes:

- Directory creation
 - User addition
 - Address list creation
 - Placing files in /trans/TC ACCIS/comm/tcaims
5. The use of e-mail depends on the senders method of including the data. There are many methods of including/attaching data. The method used must make no alterations to the data, such as inserting carriage/line feeds. The aims2 program accepts included text and uuencoded attachments.

Concerns

1. Valid test data is required from TC AIMS II.
2. The processing of large files greater than 1.44 Meg (the capacity of one 3 1/2" floppy) will not be possible by floppy.

Recommendations

1. Additional meetings may be held at the request of either the TC AIMS II developer(s) or the TC ACCIS developers as necessary.
2. A copy of this document be provided to each TC ACCIS & TCAIMS II developer.
3. Should development necessitate updates to this document, notify the originator.

Estimates

1. Estimated lines of code are:

<u>Executable</u>	<u>Source</u>	<u>Estimated</u>
aims1	aims1.sh	300 lines
aims2	aims2.sh	100 lines
.maildelivery	amaild.sh	25 lines
.profile	*	10 lines

* Created from a copy of comm.pro located in /trans/TC ACCIS/usr/tcadmin.

2. Estimated time of development not including testing with TC AIMS II is 160 hours.
3. The above estimates are subject to change.
4. The due date is 1 Mar 98.

TC ACCIS/RAM Programmer/Analyst

Date

Appendix E, Acronyms

Abbreviation	Description
AIS	Automated Information System
ASCII	American Standard Code for Information Interchange
C2	Command and Control
CCB	Configuration Control Board
CM	Configuration Management
CONUS	Continental United States
CSO	Communications Systems Officer
DES	Data Encryption Standards
DOD	Department of Defense
DOIM	Director of Information Management
DOS	Disk Operating System
DTS	Defense Transportation System
FTP	File Transfer Protocol
GTN	Global Transportation Network
IA	Interface Agreement
ILSP	Integrated Logistic Support Plan
IP	Internet Protocol
ISMO	Information Systems Management Officer/Office
ITO/TMO	Installation Transportation Office/ Traffic Management Office
ITV	In-Transit Visibility
JDC	Joint Deployment Community
JPMO	Joint Project Management Office
LAN	Local Area Network
NSN	National Stock Number
OCONUS	Outside the Continental United States
ORD	Operational Requirements Document
PC	Personal Computer
PEO	Program Executive Officer
PMO	Program Management Office

Abbreviation	Description
RSO&I	Reception, Staging, Onward Movement, and Integration
SBU	Sensitive but Unclassified
SMTP	Simple Mail Transfer Protocol
STAMIS	Standard Army Management Information Systems
TC ACCIS	Transportation Coordinators' Automated Command and Control Information System
TC-AIMS II	Transportation Coordinators' Automated Information for Movement System II
TCP/IP	Transmission Control Protocol/Internet Protocol
TCN	Transportation Control Number
UMO	Unit Movement Office/Officer