Research Note 85-102

DESIGN DESCRIPTION OF THE ADVANCED TECHNOLOGY UNIT TRAINING AND MANAGEMENT SYSTEM (ATUTMS)

T. Antczak, A. Benson, and T. Ibbott

JET PROPULSION LABORATORY

AD-A162 669

ARI Field Unit at Presidio of Monterey, California Jack H. Hiller, Chief

> TRAINING RESEARCH LABORATORY Seward Smith, Acting Director

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ABF	Application By Forms
ATUTMS	Advanced Technology Unit Training Management System
DCL	DEC Command Language
DEC	Digital Equipment Corporation
EDT	Editor
EQUEL	Embedded Query Language
MOS	Military Occupational Specialty
OSL	Cperations Specification Language
PAC	Personnel Administration Center
QBF	Query By Forms
QUEL	Query Language
RBF	Report By Forms
UIC	Unit Identification Code
UPC	Unit Processing Code
VAX	Virtual Address Extension
VMS	Virtual Memory System

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SECTION 1

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ATUTMS SYSTEM DESCRIPTION

This manual documents the design and implementation of the Advanced Technology Unit Training Management System (ATUTMS). It is intended for use by programmers, analysts and operators who are responsible for maintaining or developing system software. It will also be useful to anyone interested in the internal design and operation of the system. Keywords: $-\frac{1}{2}$ + $\frac{1473}{2}$

1.1 SYSTEM OVERVIEW

The ATUTMS system was designed and implemented by the Jet Propulsion Laboratory (JPL) under contract to the Army Research Institute (ARI) to provide modern information management capabilities at the battalion level.

ATUTMS consists of three major application areas: Personnel, Training and Logistics. Supporting them is a Utilities application which provides general utility routines and data definitions. Although each of these areas requires a separate user interface, they are all based on a single integrated relational database. This document describes the design and implementation of the data base and the applications which use it.

1.1.1 Hardware Environment

ATUTMS was developed on a DEC VAX/11-780 and installed on a VAX/11-750. Peripheral equipment includes a RA-81 disk drive, a TU-80 tape drive, an LA-100 Console, an LQP02 printer, and CIT-101 terminals (VT100 compatible). CIT-1550B dot matrix printers are available at most terminals and serve as the primary hard-copy output devices.

1.1.2 Software Environment

ATUTMS was implememented using the INGRES relational database management system version 2.1/5 and various INGRES development and user interface tools. These include Application By Forms (ABF), Query By Forms (QBF), Visual Forms Editor (VIFRED) and the INGRES Report Writer. ATUTMS also makes extensive use of the INGRES EQUEL/FORTRAN preprocessor and VAX-11 FORTRAN. Most procedures, forms and reports were developed and now operate in the ABF environment. This version of INGRES requires VMS level 3.0 or above. The full screen data entry and retrieval methods used by ATUTMS via INGRES require use of VT100 compatible terminals. The 230 column format of many of the reports requires use of printers with a 17 cpi capability.

1.2 STRUCTURE OF THIS DOCUMENT

The next several sections serve as a guide to using this document by providing an outline of the sections on Software Configuration, Database Overview, Applications, and System Operations. A brief note is included with each outlined section indicating what type of information the section contains and how it can be used.

1.2.1 Software Configuration

This section documents the installation of ATUTMS and the location and structure of the various ATUTMS directories and subdirectories. System-wide naming conventions are also discussed. This section should be read before attempting any system modifications or maintenance.

1.2.2 Database Overview

This section provides an overview of the structure of the database at the conceptual and logical levels. The physical design is detailed in the sections on specific applications. This section shows how the separate applications are integrated by the data they share.

1.2.3 Applications

A separate section is provided for each application. However, the structure used for each is identical and is discussed below. Information is presented at high, intermediate and detailed levels with each level serving as an introduction to the next. The lowest level of documentation in this manual is provided by a data dictionary which identifies and explains each table, report, and procedure referenced by the applications. The dictionary also specifies the names of source code files where appropriate. The directories containing these files are identified in Section 2. The source code files also contain detailed documentation.

1.2.3.1 Application Overview

The application overview defines the purpose of the application and identifies any procedures or techniques peculiar to that application.

1.2.3.2 Design Philosophy

The approach taken during design and implementation is outlined and explained.

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1.2.3.3 Block Diagram

The block diagram provides a very high-level look at the major components of the application and shows its relationship to the rest of ATUTMS.

1.2.3.4 Structure Diagram

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The structure diagram provides an intermediate level view of the application by providing a calling tree which shows the general sequence in which procedures, tables, reports and forms are referenced by the application. This serves as an index for the detailed information which follows. If, for example, an error is detected in an application, the structure diagram allows an analyst to quickly identify the program element involved and see its relation to other elements within the application which may be contributing to the problem.

1.2.3.5 Table Dictionary

The Table Dictionary identifies each database table (file) used primarily by the application under discussion and explains its use. A sorted listing of all tables in the database is available in Appendix A. Each field within each table is also identified and documented in Appendix B. A cross reference of fields to tables across the entire database is available in Appendix C. The assignment of tables to particular applications is for convenience of explanation only. The integrated nature of the data should not be forgotten.

1.2.3.6 Report Dictionary

The Report Dictionary identifies the reports available within each application and identifies the tables upon which they are based. Any unusual procedures used to generate the report are noted.

1.2.3.7 Procedure Dictionary

The Procedure Dictionary identifies any procedures written in a programming language which are used by the application. The purpose of each procedure is defined and any unusual algorithms or techniques are noted.

1.2.3.8 Special Operations and Maintenance Procedures

Special procedures include any software used by an application but not integrated into the executable program built using ABF. Most of these are special purpose or maintenance procedures. These procedures are not shown in the structure diagram.

1.2.3.8.1 Canned Queries

Canned queries are procedures written in QUEL, the INGRES query language. They are not used frequently enough to justify integration into the ABF application. Also, some queries are of an ad-hoc nature and not suitable for integration into a formal application environment. Most are called via DEC Command Language (DCL) command procedures. 1.2.3.9 Development Notes

This section provides the software developer a place to record any notes or hints which may help with the further development of this application.

1.2.4 System Operations

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This section provides details of routine maintenance operations which must be performed periodically by the computer operator.

1.3 SUPPORTING DOCUMENTS

Supporting documents are provided by Jet Propulsion Laboratory (JPL), Relational Technology Inc. (RTI), and Digital Equipment Corporation (DEC).

User Requirements for ATUTMS	JPL
ATUTMS Users Guide	JPL
INGRES Installation and Operations Guide	RTI
INGRES Reference Manual	RTI
INGRES Report Writer Reference Manual	RTI
INGRES RBF Users Guide	RTI
INGRES VIFRED Users Guide	RTI
INGRES QBF Users Guide	RTI
INGRES ABF Users Guide	RTI
EQUEL/FORTRAN Users Guide	RTI
VAX/VMS Command Language Users Guide	DEC
VAX-11 FORTRAN Language Reference Manual	DEC
VAX-11 Utilities Reference Manual	DEC
VAX/VMS System Management and Operating Guide	DEC

SECTION 2

ATUTMS SOFTWARE CONFIGURATION

This section describes the location and structure of the ATUTHS software directories. Naming conventions, installation requirements and the relationship between ATUTMS software and INGRES software are also discussed.

2.1 MODIFICATIONS TO VMS SYSTEM FILES

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Two simple modifications to VMS system files are required to identify ATUTMS to VMS and make its resources available to users.

2.1.1 System Startup File - SYSTARTUP.COM

The disk on which the ATUTMS directory resides must be identified whenever the VAX is booted. The following line must therefore be added to the system startup file SYS\$MANAGER:SYSTARTUP.COM :

\$ DEFINE/SYSTEM SYS_ATUTMS __deviceid:

where "deviceid" is the identification code of the disk being used (i.e., DUAO).

2.1.2 System Login File - SYSLOGIN.COM

The symbols and assignments needed by a user to run ATUTMS must be defined at every login. Accordingly the following line must be added to the system login file SYS\$MANAGER:SYSLOGIN.COM :

\$ @SYS ATUTMS:[ATUTMS]ATUTMS.COM

The command procedure ATUTMS.COM is described in Section 2.2.1.1.

2.2 THE ATUTMS DIRECTORY

All ATUTMS software resides in the directory SYS_ATUTMS:[ATUTMS] and in the subdirectories below it. The files at the [ATUTMS] level apply to the system as a whole. The subdirectories contain files specific to an application or function.

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2.2.1 ATUTMS Symbols and Definitions

2.2.1.1 The ATUTMS Startup File - ATUTMS.COM

The ATUTHS startup file SYS_ATUTMS:[ATUTMS]ATUTMS.COM is a DCL command procedure invoked from the VMS system login file each time a user logs in to the VAX (Sec. 2.1.2). It contains all the symbols and assignments needed to run ATUTMS. This file can be easily modified if a new symbol is required for ATUTMS usage or some feature must be deactivated while maintenance is conducted.

2.2.1.2 The ATUTMS Login File - MAINMENU.COM

The ATUTMS login file SYS_ATUTMS:[ATUTMS]MAINMENU.COM is a DCL command procedure which presents the top level menu of ATUTMS functions to the user when he enters the command "MENU" at the VMS level. This is the main entry point to the ATUTMS system. The MENU command is defined in the ATUTMS startup file ATUTMS.COM discussed above.

2.2.2 The ATUTMS Mail Box and Tracking Changes

All anomalies, corrections, and modifications to ATUTMS software should be recorded in the ATUTMS mail box SYS_ATUTMS:[ATUTMS]MAIL.MAI via the VMS MAIL utility. Inclusion of appropriate key words in the mail subject line permits use of MAIL's search command in tracking problems. This information is not included in the database in order to provide an independent means of storing anomaly reports.

2.2.3 Application Subdirectories

As noted in the Introduction, the ATUTMS database has three major applications or user interfaces: Personnel, Training and Logistics. A fourth application, Utilities, provides services and functions which are shared by the three main applications. A separate subdirectory is provided for each of these applications. Each subdirectory is named for its application. For example, the Training subdirectory is called [ATUTMS.TRAINING]. The types of files found in these directories are explained in the sections which follow. Details about the directories' contents are given in the section dealing with each application.

2.2.3.1 Table Create Files (.CRT)

Files with a .CRT extension contain definition of INGRES tables in the form of a QUEL CREATE statement. If a table needs to be modified, first its create file should be edited. Then, using the QUEL INCLUDE command, the CRT file can be loaded into INGRES' query buffer and executed. However, the data in the table being changed first must be saved in a temporary table and then reloaded back into the new version of the original table. A sample session follows which assumes that a new column has been added to the CREATE statement for the table Units in the file UNITS.CRT. The installation of the new version of the table could look like this:

\$	INGRES atutms
Ħ	retrieve into tmpunits(units.all)\g
ŧ	destroy units\g
*	\i units.crt
¥	\g
¥	append units(tmpunits.all)\g
*	destroy tmpunits.all\g
¥	\quit
\$	•

/* Save data in temporary table #/
/* Destroy current table #/
/* Load the .CRT file #/
/* Execute the new CREATE #/
/* Restore the data #/
/* Destroy the temporary #/
/* Exit INGRES #/

2.2.3.2 Report Writer Files (.RW)

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Files with a .RW extension contain report definitions. Using the Report Writer directly is much more efficient than using RBF. To aid in formatting, most .RW files have a few dummy lines of output entered in a comment block at the end of the file. These dummy lines are extremely useful in formatting print statements for headers and column alignments for data. Many reports use the maximum available 230 columns on standard 14 inch paper and therefore require printers with a 17 cpi capability.

2.2.3.3 EQUEL Procedure Files (.QF)

Files with a .QF extension contain EQUEL/FORTRAN code. EQUEL stands for Embedded QUEry Language and permits you to use INGRES statements and forms handling commands from within FORTRAN. The EQUEL preprocessor converts these statements to standard FORTRAN before the compiler is called. The .QF extension tells ABF which preprocessor and compiler to use. EQUEL/FORTRAN routines are used in ATUTMS to handle the more complicated features of the user interface which ABF, OSL (the Operations Specification Language used by ABF) and QBF could not provide. It is also used to generate temporary tables required by some of the more complicated reports.

2.2.3.4 Storage Structure Modification Files (.MOD)

Files with a .MOD extension contain INGRES MODIFY statements. These statements modify the storage structure of tables by building index files which are used to speed up retrieval of the data. These files periodically must be rebuilt to reflect changes in the database. The .MOD files are discussed in detail in each application in the section on Maintenance. The index files for the table Event can be rebuilt as in the following example:

- \$ set default [atutms.training]
- \$ INGRES atutms
- * \i event.mod
- * \g
- * \quit

Note that only the database owner or an INGRES super user can execute MODIFY statements.

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2.2.3.5 Permit Files (.PMT)

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Files with a .PMT extension contain INGRES PERMIT statements which are used to specify which users are authorized to access specific tables in the data base. Whenever personnel are transferred into or out of positions where they must use ATUTMS, the .PMT files must be updated using a VAX editor such as EDT. Each application has its own set of .PMT files. The following example assumes that the permit file for the Soldier table has been modified using EDT. The updated file is then submitted to INGRES for execution as follows:

\$ set default [atutms.personnel]
\$ INGRES atutms
* destroy permit soldier all\g /* Remove the old permits */
* \i soldier.pmt /* Include the new permit file */
* \g /* Execute the new permits */
* \quit
\$

If possible, permits should not be changed during peak system usage hours to avoid interrupting use of the database.

2.2.3.6 Command Procedures (.COM)

Files with the .COM extension are standard VMS command procedures written in DCL. They provide a variety of services and are documented in each in the application.

2.2.3.7 Executable Images (.EXE)

Files with a .EXE extension are standard VMS executable image files. There is one main image for each application. These images are built using the ABF IMAGE command on the main ABF menu. ABF automatically calls the Linker and specifies which of the standard INGRES libraries are to be referenced by the Linker. See the section below on Linking Applications. These are the images invoked when a user enters the \$ MENU command and selects an application.

2.2.3.8 Object Libraries (.OLB)

Files with an .OLB extension are object libraries which contain the compiled versions of the VIFRED forms that are displayed by an application. Compiled forms are included directly in an application when it is linked and can therefore be displayed more quickly than dynamically loaded forms. Forms are compiled from the Catalog menu of VIFRED and loaded into the .OLB files using the vax LIBRARIAN utility. These libraries must be available when building an executable image of an application. A library of EQUEL/Forms routines is also available in the Utilities application. See the section below on Linking Applications for more details.

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2.2.3.9 Help Subdirectory

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The majority of the on-line help messages displayed when the user of an application selects the Help option from a menu are contained in files located in the directory SYS_ATUTMS:[ATUTMS.HELP]. These files are ordinary text files created with EDT and have the extension .HLP. The logical name ATUTMSHELP is assigned to this directory to provide a reference for the routines which access help files. A few help messages are contained on forms created by VIFRED and called by ABF and are therefore not contained in this directory.

2.3 IMPLEMENTATION NOTES

This section documents various procedures and techniques developed and adopted during the implementation of ATUTMS which pertain to all applications.

2.3.1 Linking Applications

As noted above, executable images of an application are built selecting the Image item on the main ABF menu. While ABF will automatically point the linker at the INGRES system libraries, libraries containing compiled forms and compiled utility routines (.OLB files) must be specified in a linker option file with the logical name ING_ABFOPT1 assigned to it. This assignment is made in the command procedure ATUTMS.COM discussed above.

2.3.2 Complex Reports

Many of the reports generated by ATUTMS require creation of intermediate tables in order to assemble the amount of information required by a report. Therefore, a separate procedure, usually written in EQUEL/FORTRAN, must be called before the Report Writer is actually invoked. When finished, a temporary table will be available for containing data in a reduced form that the Report Writer can handle. This accounts for the various temporary tables named for reports which exist in the database. It also shows up in the extra procedure called in the OSL code for many report frames.

SECTION 3

ATUTMS DATABASE OVERVIEW

3.1 DATABASE DESCRIPTION

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The database is organized into tables consisting of rows and columns. Each table describes a different situation or entity that the applications want to track in the database. Some tables are used only in one application area while others are shared between the different areas.

In Personnel, the main table is the SOLDIER table. As soldiers arrive in the battalion, the Personnel Administration Center (PAC) appends a row to this table. The fields in the SOLDIER table are divided into four categories: personal data, qualifications, unit-related data, and service- related data. The STATUS table contains an entry for each soldier who is not present for duty and present for training. The DRIVERS table has an entry for each type of license for each driver and the PRP table has a row for each soldier in the PRP program. The SPECIAL table holds individuals who have some special condition or have a pending unfavorable action. The OMTOE is the personnel portion of the MTOE. Its rows correspond to authorized or required personnel positions in the battalion. The battery and section names are in the UNITS table. Both the SOLDIER and UNITS tables are used in the training schedule and to record training scores. There are also several smaller tables which contain allowable values for fields in the SOLDIER, STATUS, and SPECIAL tables.

In Training, the EVENT table defines the time and place for an individual or collective training event. The type of training and the specific missions and tasks are in the ARTEP, MISSION, and TASK tables. Collective and individual tasks have been combined so that ARTEP contains either the ARTEP or the type of individual training, such as MOS or common. The MISSION table has either the specific MOS or the ARTEP mission, and the TASK table has the tasks that belong to each MOS or mission. Participants are scheduled for events by the EVENTSOLDIER and EVENTUNIT tables. There is an entry for each participant in each event. Individual soldiers are in EVENTSOLDIER and units are in EVENTUNIT. EVENTTASK specifies which tasks are scheduled for an event. The scores for individual training are in SOLDIERSCORE and the scores for collective training are in UNITSCORE. In Logistics, the main equipment table is LOHAND. It has a row for each serial numbered piece of equipment and a row for each hand receipt holder for the non-serial numbered equipment. Its fields include bumper number, line, national stock number, serial number, quantity on hand, hand receipt holder, and the sequence number on the materiel condition status report (2406). The social security number for the current hand receipt holder is in LOHOLDER. The LOLINE table gives all the information pertinent to an equipment line number like description and model, and the LONSN table gives all the information pertinent to the stock number like price and technical manual. The LOSERVICE and LOREPAIR tables correspond to the preventive maintenance schedule and record (DD Form 314). They record the schedule of services and maintenance history for 314 reportable equipment. LODOCREG is the document register and LOPLL is the prescribed load list. The equipment portion of the MTOE is kept in EMTOE. يتك

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The major key used to combine data from tables is the Social Security Number(SSN). The SSN field of the SOLDIER table provides links to individual scores in the table SOLDIERSCORE and to specific pieces of equipment via the SSN field of the table LOHOLDER. The Position field of the SOLDIER table provides a link to the TOE table (OMTOE) via the OMTOE Pos field. The national stock number (NSN) plays an important role in Logistics.

3.1.1 Security

Security is provided at the operating system level by the standard VMS password and User Identification Code (UIC) based protection system. Within the database, INGRES provides varying levels of protection via the permit (.PMT) files described in Section 2 Configuration and in Section 4 for each application. In general, an ATUTMS user is only allowed to view data pertaining to his own battery. Furthermore, access to data is also limited by function. A Logistics clerk, for example, cannot update personnel data even for someone in his own battery. Exceptions are made for battalion staff officers and their representatives. See the documents User Requirements for ATUTMS, the ATUTMS Users Guide and the INGRES Reference Manual (PERMIT command) for more details.

3.1.2 Database Diagram

A conceptual view of the ATUTMS database is shown in Figure 3-1. The boxed items represent major tables in the database while the lines indicate which tables are directly related. The main tables are EVENT, for Training, SOLDIER, for Personnel, and HAND (Handreceipt), for Logistics. These tables and relationships are explained in more detail in the sections which follow.



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SECTION 4

PERSONNEL APPLICATION

The Personnel application consists of all individual soldier information except training scores. It also includes rosters of individuals who belong to some special program or who have some special status. The daily duty and training status is contained in a separate table called STATUS. The personnel portion of the Table of Organization and Equipment is included under Personnel. It is used to compare assigned to authorized and required positions for many of the reports. In addition, there are several ancillary tables which contain allowable values of fields in the SOLDIER table or allowable statuses in the STATUS or SPECIAL tables. The reports are the most complex part of They pull data together from all the tables using joins and Personnel. outer-joins.

4.1 DESIGN PHILOSOPHY

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There were several guiding principles in the design of the Personnel application. One was to make it easy to understand and immediately useful at the battalion level. Therefore, some fields in SIDPERS were omitted and other fields from within the battalion were added. In several cases, codes for a word or phrase were discarded to increase readability, and an on-line Help facility is available in the menus to explain each step.

Another principle was to keep the application easy to modify. New fields could become important as battalion reporting requirements change or old fields could take on new values. Since QBF is fairly easy to modify, it is used most often as the data entry and update mechanism. There are two exceptions to this approach: appending and deleting a soldier. In each case, additional data manipulation is necessary to keep the database consistent. An EQUEL/FORTRAN procedure is used to display and read the form and then do the additional processing.

The rosters are separate tables which repeat the name and Social Security number to link back to the SOLDIER table. Since each roster has many fields that are appropriate to only a subset of the battalion, they are represented as separate tables rather than putting all the fields in the SOLDIER table. To prevent update anomalies when appending and deleting soldiers, EQUEL procedures which can check all appropriate tables are used instead of QBF.

Since the easiest way to retrieve a soldier is to enter a part of his name with the wildcard character(*), the STATUS and DRIVERS tables are loaded with the whole battalion. This way the user can retrieve an individual and give him a status or a drivers license without having to spell his entire name or remember his Social Security number.

Personnel reports are dynamically calculated each time to ensure that the data shown on the report accurately reflect the state of the database. This means that the procedures that create the temporary tables for the reports have to run before the report each time. This results in a two-step process for running reports.

4.2 BLOCK DIAGRAM

A high level view of the Personnel application and the portions of the database on which it is based is presented in Figure 4-1. The top third of the diagram illustrates the interface used to enter and update personnel and status information and generate summary reports. The middle portion of the diagram identifies the major tables referenced by Personnel. The SOLDIER table provides all basic data applicable to an individual soldier except for training scores. The STATUS table holds information on current duty status while the various roster tables show special assignments. The Personnel Table of Organization and Equipment (known internally as OMTOE) and the SIDPERS table are both periodically updated with input from external systems as the structure of the battalion is changed and as personnel arrive and depart. The bottom third of the diagram identifies the tables through which Personnel is most closely linked to Logistics and Training.



Figure 4-1. PERSONNEL BLOCK DIAGRAM

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4.3 STRUCTURE DIAGRAM

The internal structure of the Personnel application is presented in Figure 4-2 in terms of the frames (menus), forms, and FORTRAN procedures used to define it. The hierarchy of the flow of control is indicated by the indentation on the left. For more information about any item in the figure, refer to the dictionaries in the sections which follow. Note that in some cases, a frame may have more than one entity associated with it. This occurs, for example, when a set of procedures are called in series.

Figure 4-2. PERSONNEL APPLICATION STRUCTURE

FRAME NAME	ENTITY NAME	TYPE	DESCRIPTION
MAINMENU	MAINMENU	MENU	Main Personnel menu
MAINHELP	MAINHELP	FORM	Help for main menu
FORMHELP	FORMHELP	FORM	Help on how to use forms
DAILYHELP	DAILYHELP	FORM	Help on Daily Status
NEWMENU	NEWMENU	MENU	New arrivals menu
NEWHELP	NEWHELP	FORM	Help for new arrivals
SOLDIERDD	SOLDIERDD	FORM	Field dictionary for SOLDIER
ADDSOLDIER	ADDSOLDIER	PROC	Assign new soldier (QBF-style)
	ASSIGNED	FORM	Compiled form for appending
	APPENDFORM	PROC	Display loop for ASSIGNED form
ATTACHED	ATTACHED	FORM	Attach new soldier QBF form
SDGAIN	SDGAIN	FORM	Special Duty Gain QBF form
UPDMENU	UPDMENU	MENU	Update/Retrieve menu
UPDHELP	UPDHELP	FORM	Help for updating/retrieving
UPDPOSITION	UPDPOSITION	FORM	Position or unit change form
DELSOLDIER	DELSOLDIER	PROC	Delete/Detach a soldier
	DEPART	FORM	Form used to delete/detach
UPDSOLD	UPDSOLD	FORM	Whole soldier record QBF form
UPDPERS	PERSONAL	FORM	Personal data portion of SOLDIER
UPDQUALS	QUALS	FORM	Qualification data portion of SOLDIE
UPDUNIT	UNITDATA	FORM	Unit related data in SOLDIER
UPDSERVICE	SERVICE	FORM	Service related data in SOLDIER
STATUS	STATUS	FORM	Daily Status input/update form
ROSTERMENU	ROSTERMENU	MENU	Special rosters menu
ROSTERHELP	ROSTERHELP	FORM	Help for rosters
DRIVERS	DRIVERS	FORM	Append/Update/Retrieve drivers
PRP	PRP	FORM	Append/Update/Retrieve PRP members
SPECIAL	SPECIAL	FORM	Append/Update/Retrieve special roste

PERSONNEL APPLICATION STRUCTURE (CONT'D)

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FRAME NAME	ENTITY NAME	TYPE	DESCRIPTION
RPTMENU	RPTMENU	MENU	Reports menu
RPTHELP	RPTHELP	FORM	Help for reports
DAILY STATUS			The Daily Status report consists of:
DAILYSTATUPD	DAILYSTATUSUPD	PROC	Create DAILYSTATUS table
DAILYSTAT	DAILY STATUS	REPORT	Front side of Daily Status report
DAILYPRT	DAILYPRT	PROC	Print report
DAILYDET	DAILY_DETAIL	REPORT	Back side of Daily Status report
DAILYDETPRT	DAILYDETPRT	PROC	Print report
ROSTER			The Personnel roster consists of:
BNUPD	BNUPD	PROC	Create BNPERSONN table
BNPERSONN	BN_PERSONNEL	REPORT	Battalion or battery personnel roster
BNPRT	BNPRT	PROC	Print report
PRP			The PRP roster report consists of:
PRPRPT	PRPRPT	REPORT	Personnel Reliability Program report
PRPPRT	PRPPRT	PROC	Print report
UNITMAN			The Unit Manning report consists of:
UNITUPD	UNITUPD	PROC	Create UMR table
UNITMAN	UNIT_MANNING	REPORT	Battalion or battery UMR report
UMRPRT	UMRPRT	PROC	Print report
SKILL			The Skill Inventory consists of:
SKILLUPD	SKILLUPD	PROC	Create the SKILLINVTRY table
SKILLINV	SKILL_INVTRY	REPORT	Frequency table of MOS vs Grade
SKILLPRT	SKILLPRT	PROC	Print report
INDIVIDUAL	THEFT	00000	ine individual report consists of:
INDVDUMP		REPORT	Individual soldier record report
INDVPRI	INDVPRI	PROC	Print report
MICE	ONTOF	BEDODT	The middle report consists of:
OMTOE	OMTOE	REPURI	Ine modified load report
OMIOEPRI	OMTOEPRI	PROC	Frint report
QRYMENU	QRYMENU	FORM	Query/update supporting data menu
QRYHELP	QRYHELP	FORM	Help for supporting data queries
STATUSCODES	STATUSCODES	FORM	Daily Status report codes
ROSTERCODES	ROSTERCODES	FORM	Special roster condition codes
RELIGIONCODE	RELIGIONCODE	FORM	Religion names and codes
GRADERANK	GRADERANK	FORM	Corresponding grades and ranks
MILEDCODES	MILEDCODES	FORM	Military Education names and codes
CIVEDCODES	CIVEDCODES	FORM	Civilian Education names and codes
UNITNAMES	UNITNAMES	FORM	Battery and Section unit names
SCTYSTATS	SCTYSTATS	FORM	Security Investigation statuses
CLEARANCE	CLEARANCE	FORM	Security Clearance codes
MAIL			The link to MAIL consists of:
MAILCALL	MAILCALL	PROC	Spawn a command procedure
ENDMAIL	ENDMAIL	FORM	Form to exit and refresh screen

4.4 TABLE DICTIONARY

PERSONNEL APPLICATION TABLE DICTIONARY

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Table	Туре	Contents
ASSIGNED	view	Subset of the fields in the soldier record that are used to assign a new soldier.
The assigned w	view was used 1	to generate the form for assigning a new soldier.
ATTACHED	view	Contains fields in soldier table used if a soldier is attached.
This view was	used to genera	ate the form for attaching a soldier.
BATTERYCODES	data	Translation of battery mnemonics to UPC and UIC codes.
This table tra battery A is e	nslates batter equivalent to (ry mnemonics to UIC and UPC codes. For example, JPC DGLAO.
BNPERSONN	data	Temporary table used by report Bn_personnel.
CIVEDCODES	data	Civilian education codes.
This table was description in SOLDIER table.	used to trans the SOLDIER 1	slate the SIDPERS codes into a more English-like cable. It is also used to validate input to the
CLEARANCE	data	Contains codes for security clearances.
This table is fields to fiel entry for the	used in two p ds in the SOLI SOLDIER table.	laces. First, it is used to translate the SIDPERS DIER table and second, it is used to validate data
CONDITIONS	data	Contains codes for special conditions roster and including deployability.
This table is to determine o	used to valida leployability d	ate input to the special conditions roster and also on the unit manning report.

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Table	Туре	Contents
DAILYRPT	data	Temporary table used in generating Daily Status Report.
DAILYSTATUS	data	Temporary table used by report Daily_status.
DRIVERS	data	This table identifies drivers and the types of licenses they hold.
There is a sep license, such primary); and roster report	parate row in (as JEEP, 5 TO) the bumper nur	this table for each license. It contains the type of N, TMP; the license number; position (assistant or mber of the vehicle. It is used in the battalion
DRIVSSNX	index	Index on table "drivers".
GRADES This table is	data used to create	This table cross-references grade with rank. The grade field in the SOLDIER record from the rank
GTRPT	data	Temporary table used to generate GT score report.
MILEDCODES	data	Military education codes.
This table is English-like	used to trans description in	late the codes in the SIDPERS table to a more the SOLDIER table.
MOS	data	Current MOS codes available in the battalion. Temporary table.

[able	Туре	Contents
MPCCODES	data	This table assigns a non-alphabetic sort sequence to military position codes.

The Military Position Codes are O for Officer, W for Warrant Officer and E for Enlisted. This table permits sorting of individuals in the non-alphabetic sequence O, W, E.

OMPOSX index index on OMTOE for position

OMTOE data Personnel portion of the Modification Table of Organization and Equipment

Contains a row for every authorized position. The position code is the link to the soldier table to identify what position an individual occupies. Since each authorized position is a separate row, the required quantity could contain a fraction if the required quantity is different from the authorized quantity. There is also a row for any position that is required, but not authorized and some that are not required now, but have been or will be.

PERSONAL view Contains those fields in the soldier record of a personal nature

This view was used to generate the form for updating personal data.

PRP data Personnel Reliability Program data.

This roster contains individuals who are entered into the Personnel Reliability Program. It contains important dates for required reading, tests and retests. It is maintained by the S2 shop. There is also a PRP report which prints out the roster.

QUALS view Contains those fields in the soldier record that relate to his qualifications

This is used mainly to generate the form for updating qualification data.

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Table	Туре	Contents
RELIGION	data	Religious preference codes.
This table is the SOLDIER (s used to trans table and to va	slate the SIDPERS codes to the English description in alidate data entry to the SOLDIER table.
SCTYSTATS	data	Contains the codes for security clearance investigation status.
This table is SOLDIER table	s used to tran: and to valid:	slate from the SIDPERS codes to the description in the ate data entry to the SOLDIER table.
SEPRATS	data	Temporary table used in "canned query" for separate rations.
SERVICE	view	Contains those fields in the soldier record that relate to the service as a whole.
This was used	to generate t	the form for updating service data.
SIDPERS	data	Contains all the fields exactly as they are on the SIDPERS SPF file.
These are the get the forma how the SIDPE see how the S	e fields as the at of the field ERS table is co SIDPERS codes a	ey originally come from SIDPERS. See SIDPERS.CPY to ds in the Ingres copy command. See SOLDIER.APN to see opied into the SOLDIER table and see SOLDIER.RPL to are translated.
SKILLINVTRY	data	Temporary table used by the report Skill_invtry.
SOLDIER	data	Individual soldier record.
The record is unit data, an For the field appended to S are translate used in the l individual so	a divided into ad service data is that origina SOLDIER from S ed. The SOLDI battalion rosta oldier reports	four categories of data: personal, qualifications, a. There is a view defined for each. ated in SIDPERS, see SOLDIER.APN to see how they are IDPERS. See SOLDIER.RPL to see how the SIDPERS codes ER table is used in many places. In Personnel, it is er, skill inventory, unit manning, daily status and . It is used in the forms to validate name and social

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Table	Туре	Contents
security nu skills and receipt ho]	umber. It is later scorin lder.	also used in Training for scheduling MOS and Common ng them. In Logistics, it is referenced to show the hand
SOLDIERDD	data	Dictionary for the fields in the SOLDIER table.
This is use	ed in the HEL	P form under Assign New Soldier.
SONAMEX	index	Index on table "soldier".
SOPOSX	index	Index on position in the table "soldier".
Sortmpc	data	Assigns non-alpha sort code to Military Position Codes - 0,W,E.
SOSSNX	index	Index on ssn for the table "soldier".
SPECIAL	data	Contains soldiers with special or derogatory conditions

This table is confidential and should only be viewed by commanders, the S1, S2, and 1st sergeants. A special condition may make the soldier non-deployable such as court martials or Article 15's. The CONDITIONS table contains the allowable entries and their deployability status. The only place this table is used is in the unit_manning report to print deployability status.

STATCODES data Personnel status codes.

This table contains the codes used in the daily status report. It is used to validate daily status input and to produce the daily status report. It has the category and deployability for each status and its sort order in the report. It is also used to print deployability in the unit_manning report.

Table	Туре	Contents
STATSSNX	index	Index on ssn for the table "status".

STATUS data Daily status of each soldier.

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This table is updated daily and contains the status of each individual soldier. If a soldier is present for duty, he has a status of PDY, otherwise he is absent from duty or absent from training. Currently this table contains all the soldiers in the battalion. A row is appended each time a new soldier is assigned. This is to make updating easier since the user can retrieve on a partial name instead of spelling the name and ssn exactly right to append a row. Eventually, this should be replaced by multi-table QBF with the retrieve on the soldier table and an append or delete to the status table. The allowable status codes are in STATCODES along with the deployability of the status. The individual's status is used in the daily status report, the battalion or battery roster, the unit_manning report and the individual training schedule summary.

TRANSIENT	data	Codes for transient personnel used primarily by
		report Unit_manning.

These are the position codes 9990 - 9994 which are not authorized positions.

UMR data Temporary table used by report unit manning.

UNITDATA view Contains those fields in the soldier record relating to his current unit.

This was used to generate the form for updating unit data.

UNITS data Unit names down to the section level

Each unit is separately listed with an A,B,C in the 10 character unit field to indicate which battery it belongs to.

4.5 REPORT DICTIONARY

PERSONNEL APPLICATION REPORT DICTIONARY

Report	Contents
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BN_PERSONNEL A battery or battalion roster of individual soldiers sorted alphabetically.

This report uses the temporary table BNPERSONN created by the Equel procedure BNUPD and the BATTERYCODES table. It takes UPC as a parameter via the form BNFORM and also accepts # to mean the whole battalion. The rows are sorted by battery and then name. Included in this report are duty status, driver's license, mealcard number, separate rations, security clearance and date assigned. At the end of each battery, total officers, warrant, enlisted, and attached are printed.

DAILY_DETAIL Name and particulars for each soldier who is absent

This report uses the SOLDIER, STATUS, STATCODES, and BATTERYCODES tables. It lists everyone who is not PDY in the STATUS table. The sort sequence is determined by the artificial variables in the STATUS table, CATSEQ and STATSEQ, which separate absent from training, from absent from duty, and sort the status within category according to the Fort Lewis form.

DAILY_STATUS Totals by officer, warrant, or enlisted for absent status

This report uses the temporary table DAILYSTATUS to generate the front-side of the Daily Personnel Status Report. It accepts UPC or # as a parameter. The sort is on catseq, totbreak, statseq, and mpcseq. Catseq is the sequence letter of the category of statuses. Totbreak is used to print the dashes for the totals. Statseq is the sequence number of the status within the category and it is used to print the status. Then without new lines, the mpcseq is used to print the totals for each MPC - officer, warrant, and enlisted. Note that nothing is printed for the detail portion of the report.

GTRPT GT score report.

INDVDUMP All the fields in the SOLDIER table for one individual.

This report was generated by RBF and then modified. It takes the soldier's name as a parameter.

PERSONNEL APPLICATION REPORT DICTIONARY

Report Contents

OMTOE Authorized and required personnel positions in the TO&E.

This report is a straightforward listing of the OMTOE table. It is sorted by UPC, paragraph, and position code. The parameter is UPC and it also accepts * for the whole battalion.

PRP Personnel Reliability Program participants.

This report is a simple listing of the PRP table. It accepts UPC or # as a parameter via the PRPFORM form. Date fields are used internally and printed as YY.MM.DD.

SKILL_INVTRY Frequency count of required, authorized, and assigned by MOS and grade

This report uses the temporary table SKILLINVTRY produced by the procedure SKILLUPD. The procedure prompts for the parameter of UPC or *. The sort is on seqno, mos and grade. Seqno is used to print the dashes for the total line. The MOS break is used to print the MOS. Then without new lines, the grade break is used to print the quantities. Note that nothing is printed in the detail portion of the report.

UNIT_MANNING List of current personnel assignments for each authorized position in the TO&E

This report uses the temporary table UMR created by the procedure UNITUPD. It accepts UPC or * as a parameter. Multiple assignments to the same position (for example transients) cause the names to list with the position blanked out. Totals are calculated by summing the artificial variables for authorized and assigned officers, warrant, and enlisted. These fields contain a 1 if true, 0 otherwise.

4.6 PROCEDURE DICTIONARY

PERSONNEL APPLICATION PROCEDURE DICTIONARY

Procedure	Source File	Form	Contents
ADDSOLDIER	ADDSOLDIE.QF	ASSIGNED	Assigns a soldier by adding him to all

Subroutine ADDSOLDIER - This routine calls APPENDSOL to imitate QBF in appending a row to the SOLDIER table. It uses the compiled form ASSIGNED. After the append to the SOLDIER table the fields are stored in the array ch_data. From ch_data, a row is then appended to the STATUS, TTPTQUAL, TTWEAPONQUAL, and DRIVERS tables. NOTE: if the form ASSIGNED is changed, then the subscripts in ch_data may also have to be changed. The main purpose of this routine is to keep these other tables filled with the whole battalion so that instead of appending, an update can be made using a partial match query.

BNPERSONN BNPERSONN.QC

BNPRT BNPRT.QF Prints the battalion or battery personnel roster.

Subroutine BNPRT - Calls PRTREPORT to print the battalion or battery roster from BNPERSONN.LIS.

BNUPD BNUPD.QF Creates the temporary table for the battalion or battery roster.

Subroutine BNUPD - The main purpose of this routine is to calculate the count of officers, warrant, and enlisted. At one time, an outer join was necessary to include DRIVERS and STATUS information, but those tables now have the whole battalion in them. When multi-table QBF is available, these tables may again be limited to only the soldiers with driver or status data. At that time, the outer join will again be necessary.

DAILYDETPRT DAILYDETP.QF

Prints the detail list for the daily status report.

Subroutine DAILYDETPRT - Calls PRTREPORT to print the daily status detail from DAILYDET.LIS.

PERSONNEL APPLICATION PROCEDURE DICTIONARY

Procedure Source File

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Contents

DAILYPRT DAILYPRT.QF

Prints the Daily Status report

Subroutine DAILYPRT - Calls PRTREPORT to print the Daily Status report from DAILYSTAT.LIS.

Form

DAILYSTAT DAILYSTAT.QC

DAILYSTATUPD DAILYUPD.QF

Creates temporary table for the Daily Status report.

Subroutine DAILYSTATUPD - This routine creates the DAILYSTATUS table which contains a row for each status and MPC (Military Personnel Code) combination. Each status belongs to a category: STRENGTH, ABSENT FROM DUTY, ABSENT FROM TRAINING. A status of TOTAL is used to hold the totals for each category. The template for this table is loaded from DAILYRPT. Each user has his own version of DAILYSTATUS. This prevents lockouts and possible deadlocks. Contained in the template are artificial fields used to sort and create totals: catseq, totbreak, statseq, and mpcseq. First the strength is calculated from the SOLDIER table based on the attached and organic status. Then, the absent statuses are calculated by first updating upc and mpc in the STATUS table and counting by status and mpc. Present for duty = absent - strength. Present for training = PDY - absent from training + SD gains. Finally, the totals are calculated with the sum aggregate by category and mpc.

DELSOLDIER DELSOLDIE.QF DEPART

Deletes a soldier from all appropriate tables.

Subroutine DELSOLDIER - This routine is necessary to keep the database consistent. It imitates QBF by first displaying the DEPART form in query mode to get a name or partial name and then displaying the same form in update mode inside a retrieve loop. When the user chooses the menu item DELETE, then a flag is set and the loop is exited. If the user chooses END in either the query display or the update display, the loop is exited or bypassed and the flag target_found is not set. The deletes are executed at the end of the retrieve loop when the flag is set. The outside loop continues to the next query mode display until the user exits. The soldier is deleted from STATUS, DRIVERS, PRP, SPECIAL, LOHOLDER, SOLDIERSCORE and EVENTSCORE.

PERSONNEL APPLICATION PROCEDURE DICTIONARY

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Procedure	Source File Form	Contents
INDVPRT	INDVPRT.QF	Prints the Individual Soldier Record report.
Subroutine INI from INDVDUMP	DVPRT - Calls PRTREPORT to .LIS.	print the Individual Soldier Record
MAILCALL	MAILCALL.QC	Spawns a process which invokes the Mail utility.
OMTOE	OMTOE.QC	Creates temporary table for report.
OMTOEPRT	OMTOEPRT.QF	Prints the Personnel portion of the MTOE.
Subroutine OM	TOEPRT - Calls PRTREPORT to	o print MTOE report from OMTOE.LIS.
SKILLINV	SKILLINV.QC	Creates temporary table for report.
SKILLPRT	SKILLPRT.QF	Prints the Skill Inventory report.
Subroutine SK SKILLINV.LIS.	ILLPRT - Calls PRTREPORT to	o print Skill Inventory report from
SKILLUPD	SKILLUPD.QF	Builds temporary table for the Skill Inventory report.
UMRPRT	UMRPRT.QF	Prints the Unit Manning report.
Subroutine UM UNITMAN.LIS.	RPRT - Calls PRTREPORT to p	print Unit Manning report from
		Builds temporary table for report
PERSONNEL APPLICATION PROCEDURE DICTIONARY

Procedure	Source File	Form	Contents
UNITUPD	UNITUPD.QF		Creates the temporary table which is used for the Unit Manning report.

Subroutine UNITUPD - This routine creates the UMR table which is used for the Unit Manning report. First, it creates the UNITMAN temporary table which has all authorized or required positions in the OMTOE table. Transient positions from the TRANSIENTS table are appended. Then the UMR table is created by joining the SOLDIER table to UNITMAN. The MOD and LOCATE functions are used to put a 1 in the officer, warrant, or enlisted columns if the grade contains an 0, W, or E. Next, authorized but not assigned positions are appended to UMR by going back to the OMTOE table and retrieving positions which do not have corresponding soldiers. Next, duty status is replaced from the STATUS table and deployability is determined from the STATCODES table. The SPECIAL table is searched to find non-deployable personnel by using the CONDITIONS table.

4.7 SPECIAL OPERATIONS AND MAINTENANCE PROCEDURES

The tables need to be reorganized periodically so that performance will not degrade. Each table that is subject to updates has a modification procedure. The "mod file" has the name of the table with the extension of ".MOD". Permit files must also be maintained. The main ones for Personnel are SOLDIER.PMT and STATUS.PMT. These permits define who may retrieve, append, update or delete rows in the table and which rows they can access based on their UPC. When a new user is registered on the system, the permit files should be edited to add his permissions and then the permits should be included and executed. Examples of using MOD and PMT files are given in Sections 2.2.3.4 and 2.2.3.5.

4.7.1 Canned Queries

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Canned queries are VMS command procedures which call the INGRES terminal monitor with a pre-written QUEL program. This is accomplished by using the VMS create command to create a temporary file of the QUEL program. The file is defined as the INIT_INGRES file which executes when INGRES is invoked. Usually the QUEL code contains a terminal read macro to get a parameter from the user. Currently, the personnel canned queries are DATELOSS, MOSGRADE, and MEALCARD. DATELOSS lists everyone who is expected to leave in the next N days where N is the parameter. MEALCARD lists everyone who is on separate rations and MOSGRADE gives a count of personnel by MOS or grade or both.

4.8 DEVELOPMENT NOTES

A special note should be made concerning changes to the Assign New Soldier form. The form is a compiled form called by the ADDSOLDIER procedure. It must be re-compiled and added to PERSLIB after each change. If a new field is added or the sequence of fields is changed, ADDSOLDIER refers to the fields with an array reference that may also need changing.



SECTION 5

TRAINING APPLICATION

The design of the Training application is based upon the following scenario. Training events are scheduled on a continuous basis for the battalion as a whole, for units within the battalion, and for individuals within these units. A training event can focus on unit-level exercises, individual skills or a combination of both. When an event terminates, the units and/or individuals are scored on how well they performed. Based on these scores, further training may be indicated. Critical skills can also decay due to lack of practice and should also be considered. A new set of events can then be scheduled to address any problems noted. The availability of personnel and equipment must be considered when building a schedule.

Based on the scenario described above, the Training application must provide scheduling facilities which can draw upon the data managed primarily by the Personnel application to assemble units and soldiers for training. The Logistics application supplies information on the status of vehicles and equipment, although this connection is not a completely automated one. The application must also supply the means of storing and retrieving unit and individual scores. Finally, general reference data identifying the tasks assigned to the battalion and the individuals within it must be made available to schedulers so that events will include only valid tasks.

5.1 DESIGN PHILOSOPHY

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The Training application requires assembly of large amounts of varying types of data into a single, controllable structure. It also requires coordination between different sets of users to avoid scheduling conflicts. To minimize the complexity of data entry and to handle the high volume of scores to be entered, several approaches are used.

Control and coordination are maintained both internally and externally by centering all activities around the schedule as embodied in the EVENT table. All tasks, personnel, units and scores associated with a training session are linked back to the original event in which they were scheduled. The unique event code generated by Training when an event is scheduled serves as the primary access key.

In order to ease the process of assembling large amounts of data on a single screen, tablefields (windows) which allow scrolling independent of the rest of the screen, are used extensively to provide efficient access to the data. As much information as possible is included in these lists so that items can be selected from them by either placing an "X" next to them or positioning the cursor on top of them. This reduces the number of key strokes required to select data which saves time and reduces error.

Maximum use is made of built-in INGRES utilities and capabilities. Utilization of FORTRAN is restricted to providing some of the more complex menu control sequences. Manipulation of data is done almost entirely with EQUEL (Embedded QUEL) from FORTRAN. This keeps the number and complexity of FORTRAN data items to a minimum.

5.2 BLOCK DIAGRAM

A high-level view of the Training application and the portions of the database on which it is based is in Figure 5-1. The top third of the diagram illustrates the user interface used to manipulate the training schedule, unit training records (Unit Book) and individual training records (Job Book). In addition, the interface provides for maintenance of reference data which defines the missions and tasks in which both units and individuals must be proficient. The middle portion of the diagram identifies the major tables referenced by The EVENT table provides background data applicable to any scheduled Training. training event while the tables EVENTTASK, EVENTUNIT and EVENTSOLDIER supply specific details of a training event as needed. After an event is completed, scores can be entered through the training schedule - the preferred method - or via the unit or job books. The reference tables ARTEP, MISSION and TASK are fairly stable and contain data from standard training manuals. They are used not only as an aid to scheduling training events, but to provide accurate task titles in the various training reports as well. The bottom third of the diagram identifies those tables from the Personnel application which are most frequently referenced by Training. It also indicates which tables provide an indirect link to Logistics through Personnel.



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5.3 STRUCTURE DIAGRAM

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The internal structure of the Training application is presented in in Figure 5-2 in terms of the frames (menus), FORTRAN procedures, and forms used to define it. The hierarchy of the flow of control is indicated by the indentation on the left. For more information about any item in the figure, refer to the dictionaries in the sections which follow. ri

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Figure 5-2. TRAINING APPLICATION STRUCTURE

Entity	Туре	Comments	
TRAINING	FRAME	Main Training menu.	
HTRAINING	PROC	Display main help.	
DEFINEEVENT	PROC	Build, modify event schedule.	
TREVDEFINE	FORM	Permits scroll through schedule.	
LOADEVENTLIST	PROC	Load schedule to screen.	
GETARTEP	PROC	Select type of training (ARTEP).	
TREVARTEP	FORM	Permits "X" of ARTEP code.	
GETEVENTCODE	PROC	Generate unique event code.	
GETSUBEVENT	PROC	Attach sub-event to main event.	
ADDEVENT	PROC	Add event to schedule.	
TREVENT	FORM	Permits entry of event header.	
UNLOADEVENT	PROC	Unload form, write to table.	
DELETEEVENT	PROC	Delete event from schedule.	
UPDATEEVENT	PROC	Modify an event.	
TREVENT	FORM	Permits editing of event header.	
LOOKUPTASK	PROC	Select tasks to be trained.	
TREVTASK	FORM	Permits "X" of tasks from list.	
LOOKUPUNIT	PROC	Select units to be trained.	
TREVUNIT	FORM	Permits "X" of units from list.	
LOOKUPNAME	PROC	Select soldiers to be trained.	
TREVSOLDIER	FORM	Permits "X" of soldiers to train.	
UNLOADEVENT	PROC	Unload form, write to tables.	
FINDEVENT	PROC	Search schedule for event.	
LOADEVENTLIST	PROC	Load schedule to screen.	
SCOREUNIT	PROC	Score units trained in event.	
TRTASKBYUNIT	FORM	Permits entry of unit scores.	
LOADUNITSCORE	PROC	Load unit scores to form.	
UNLOADUNITSCORE	PROC	Unload unit scores. write to table.	
SCORESOLDIER	PROC	Score soldiers trained in event.	
TRTASKBYNAME	FORM	Permits entry of soldier scores.	
INITSOLDSCORE	PROC	Load scores to form first time only.	
LOADSOLDSCORE	PROC	Load soldier scores to form.	
UNLOADSOLDSCORE	PROC	Unload soldier scores, write to tab	

Figure 5-2. TRAINING APPLICATION STRUCTURE (continued)

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Entity	Туре	Comments	
UNITBOOK	PROC	View, modify unit scores.	
TRUNITBOOK	FORM	Permits access to unit scores.	
LOADUNITBOOK	PROC	Load unit scores to form.	
UNLOADUNITBOOK	PROC	Unload screen, write to table.	
TRSOLDRECORD	FRAME	Select JobBook, PT or Weapon Scores.	
HTRSOLDREC	PROC	Display help message.	
JOBBOOK	PROC	View, modify soldier scores.	
TRJOBBOOK	FORM	Permits select, scroll of scores.	
LOADJOB	P ROC	Load scores to screen.	
UNLOADJOB	PROC	Unload screen, write to table.	
PTQUALV	FORM	QBF retrieve of PT scores.	
TTPTQUAL	FORM	QBF update of PT scores.	
TTWEAPONQUAL	FORM	QBF update of weapon scores.	
TRREPORTS	FRAME	Main reports frame.	
HTRREPORTS	PROC	Help display.	
TRSCHEDREPS	FRAME	Training schedule reports.	
HTRSCHEDREPS	PROC	Help display.	
SCHEDULE	REPORT	Training schedule.	
PRSCHEDRPT	PROC	Print the report.	
SCHEDULE2	PROC	Builds temp. table for detail sched.	
SCHEDULE2	REPORT	Detailed training schedule.	
PRSCHED2	PROC	Print report.	
INSTRUCTOR	REPORT	Instructor's schedule.	
PRINSTRUCRPT	PROC	Print report.	
EVENT	REPORT	Event summary report.	
PREVENTRPT	PROC	Print report.	
EVENTROSTER	REPORT	Event roster summary report.	
PRROSTERSRPT	PROC	Print report.	
MOSSHEET	REPORT	MOS score sheet report.	
PRMOSSHTRPT	PROC	Print report.	
UNITSHEET	REPORT	Unit score sheet report.	
PRUNITSHTRPT	PROC	Print report.	
TRUNITREPS	FRAME	Run unit reports.	
HTRUNITREPS	PROC	Help.	
UNITBOOK	REPORT	Unit scores report.	
PRUNITBOOK	PROC	Print report.	

Figure 5-2. TRAINING APPLICATION STRUCTURE (continued)

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Entity	Туре	Comments	1
TRMOSREPS	FRAME	Run MOS score reports.	•
HTRMOSREPS	PROC	Help.	3
MOSSCOREO	REPORT	BN level MOS score summary.	3
PRMOSBNRPT	PROC	Print report.	
MOSSCORE 1	REPORT	Battery level MOS score summary.	
PRMOSBTYRPT	PROC	Print report.	
MOSSCORE2	REPORT	SECTION level MOS score summary.	
PRMOSSECRPT	PROC	Print report.	
JOBBOOK	REPORT	Soldiers Job Book report.	
PRJOBBOOKRPT	PROC	Print report.	×.
PTQUAL	REPORT	PT qualification report.	
PRPTQUALRPT	PROC	Print report.	
WEAPONQUAL	REPORT	Weapons qualification report.	•
PRWEAPONQRPT	PROC	Print report.	
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TRREFERENCE	FRAME	Training reference data.	ì
HTRREFERENCE	PROC	Help.	
ARTEP	FORM	QBF form for access to ARTEP data.	÷
MISSION	FORM	QBF form for access to Mission data.	
TASK	FORM	QBF form for access to Task data.	•
TASKSUMMARY	REPORT	Summary of all tasks in database.	
PRTASKSUMRPT	PROC	Print report.	2
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5.4 TABLE DICTIONARY

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TRAINING APPLICATION TABLE DICTIONARY

Table	Туре	Contents	
ARTEP	data	ARTEP codes and titles.	

This table contains the titles and codes of ARTEPs. ARTEPs define the missions and tasks which each unit is expected to perform. In order to generalize the structuring of data in this data base, several non-standard ARTEPs have been defined in addition to the usual ARTEPs which define collective training. These are COMMON (Common Skills Training), MOS (MOS training) and REQUIRE (Required Training such as PT). This table is fairly static and serves as the highest level of training reference data in the data base. An ARTEP must be defined here before it is entered into the Mission table or Task table.

EVENT data Time, location, subject and participants of scheduled training events.

The "event" table defines the time location and participants of training events. This information is used to generate the training schedule reports. The main storage key is the field "event" which contains a unique value generated by the routines GETARTEP and GETEVENTCODE in the training application. Date is a secondary key. Additional detail can be added to an event via the tables "eventtask", "eventunit" and "eventsoldier". These also use "event" as their main key. The scores and dates of tasks trained, as recorded in the tables "unitscore" and soldierscore" can also be linked to the "event" table via an "event" column in each of them. The main routines which manipulate this table are DEFINEEVENT, ADDEVENT, UPDATEEVENT and DELETEEVENT.

EVENTSOLDIER data

Identifies individual soldiers to be trained in a scheduled training event.

This table identifies the soldiers to be trained in a scheduled training event. The main key is the field "event" which provides the link to the table "event". The field "ssn" provides the link to the table "soldier" where name, grade and MOS can be obtained. The soldier table provides, in turn, a link to the table "omtoe" via the field "position". The "omtoe" table supplies information about a soldier's unit.

EVENTSUMMARY view

This view is used by report Event.

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Table	Туре	Contents		
		 میں ندر میں اور وال کی ہوتی ہے۔ جمع کی میں اور وال کی اور کی میں میں میں اور کی ہوتی ہے۔ اور اور اور اور اور او		
EVENTTASK	data	This table identifies the tasks to be trained in a		

scheduled training event.

The table "eventtask" identifies the tasks to be trained in scheduled training event. Training events are defined in the table "event". Both tables are linked via the field "event". The fields "artep" and "task" are sufficient to uniquely identify a task to be trained as defined in the table "task". Note that in this table, as in the tables "task" and "mission", the field "mission" can contain an MOS. This supports the generalized structure used in this database of defining an ARTEP and mission for each task. See table "task" for details.

EVENTUNIT data This table identifies the units participating in a scheduled training event.

The table "eventunit" identifies the units participating in a scheduled training event as defined in the table "event". These tables can be linked via the field "event". Values for the field "unit" are drawn from the table "omtoe" where the structure of units are defined. Note that units need not be specified for every training event.

MISSION data Missions for which units must be trained.

A mission is an action which a unit within the battalion must be trained to perform. Each mission belongs to an ARTEP that defines an action which the battalion as a whole must perform. A mission is composed of a set of specific tasks that must be performed to acheive the mission's goals. This table provides the means of identifying and labeling each mission. Note that a mission cannot be added to this table until the ARTEP to which it belongs has been added to the table ARTEP. In keeping with the generalized structure of ARTEP-Mission-Task used in collective training, missions are equivalent to MOSs for the ARTEPs "MOS" and "COMMON" used in individual training. See tables "artep" and "task" for more details.

MOSSCORE view This view is used by the MOS score reports.

Table	Туре	Contents
MOSSCORE2	view	View used by report Mosscore2.
PTQUALV	view	View of table TTPTQUAL which automatically calculates pass/fail using score data.
SCHEDULE2	data	Temporary table used by report Schedule2, the detailed training schedule.
SCHEDULER	data	Initials of training event scheduler and count of events scheduled.
This table individual	is used to s scheduler. F	tore a count of the number of events scheduled by an rom this data, a unique code for each event scheduled car

be created by combining the schedulers's initials with the sequence number. This table is manipulated by the Equel procedure GETEVENTCODE in the Training application. The unique code generated is used to link the tables "event", "eventunit", "eventsoldier" and "eventtask" all of which combine to define a training event to whatever level of detail is required.

SOLDIERSCORE data

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Common skills and MOS training scores.

The scores and dates of common skills and MOS training events are stored here. The major access keys are SSN, date and event code. Scores, or status codes, are P for Pass, F for Fail and N for Not Evaluated. Note that a score can be entered for each evaluation of a task. By saving the previous scores in this manner, trends in training status can be determined.

TASK data Code and title of all tasks, collective and individual.

The code numbers of all tasks, collective and individual, are stored in this table to provide an accurate reference from which a trainer can select tasks to train. Each task belongs to a general category of related tasks that combine to form a mission. Each mission in turn belongs to a general category of related missions which combine to form an ARTEP. The hierarchy of this data structure is therefore ARTEP-Mission-Task. While this is the traditional hierarchy employed

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to handle col base to inclu handle thses	lective tra de individu types of tr	aining, it has been extended and generalized in this data al training by creating the ARTEPs COMMON and MOS to raining.	
TASKSUMMARY	view	View used by report Tasksummary.	
TTPTQUAL	data	PT qualification data.	
TTWEAPONQUAL	data	Weapons qualification data.	
UNITSCORE	data	Scores of collective task training.	
This table co	ntains the es are TR f	scores and dates of unit training events. The score,	
practice. The Schedule repo performance i training. The this data.	se codes ap rt. Note th n MOS or Co Unitscore	opear in the Status column of the Detailed Training hat a unit can also be evaluated as a whole for its formmon Skills training in addition to ARTEP task reports can be used to produce various summaries of	
practice. The Schedule repo performance in training. The this data. XARTEPARTEP	se codes ap rt. Note th n MOS or Co Unitscore index	opear in the Status column of the Detailed Training nat a unit can also be evaluated as a whole for its ommon Skills training in addition to ARTEP task reports can be used to produce various summaries of Index on table "artep".	
practice. The Schedule repo performance i. training. The this data. XARTEPARTEP XEVENT1	se codes ap rt. Note th n MOS or Co Unitscore index index	opear in the Status column of the Detailed Training hat a unit can also be evaluated as a whole for its formmon Skills training in addition to ARTEP task reports can be used to produce various summaries of Index on table "artep". Index on table "event".	
practice. The Schedule repo performance i training. The this data. XARTEPARTEP XEVENT1 XEVSOLD1	se codes ap rt. Note th n MOS or Co Unitscore index index	<pre>opear in the Status column of the Detailed Training nat a unit can also be evaluated as a whole for its ommon Skills training in addition to ARTEP task reports can be used to produce various summaries of Index on table "artep". Index on table "event".</pre>	

Table	Туре	Contents
XEVUNIT1	index	Index on table "eventunit".
XSOSCORE 1	index	Index on table "soldierscore".
XSOSCORE2	index	Index on table SOLDIERSCORE.
XSOSCORE3	index	Index on table "soldierscore".
XTASK1	index	Index on table "task".
XUNSCORE 1	index	Index on table "unitscore".
XUNSCORE2	index	Index on table "unitscore".

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5.5 REPORT DICTIONARY

TRAINING APPLICATION REPORT DICTIONARY

EVENT Detailed description of a training event including tasks to train.

The Event report provides a concise summary of a training event by combining data from the tables "event" and "eventtask" to produce a description of the event followed by a list of the tasks to be trained in the event. It can be issued to an instructor as an aid to planning an event. It can be used in conjunction with the report Event Roster which provides a list of all soldiers scheduled to participate in an event.

EVENTROSTER Roster of soldiers scheduled to participate in a training event.

The Event Roster report combines data from the tables "event", "eventsoldier" and "status" to produce a description of a training event followed by the names of all soldiers scheduled to participate in the event along with their current duty status. If run the day of the event, it will indicate who is unavailable for training and why (Hospital, Guard Duty, CQ, etc).

INSTRUCTOR Training schedule sorted by instructor.

The Instructor report is identical to the Schedule report except that the Instructor column is displayed on the left and serves as the major sort key. With this format, a schedule for each instructor can be generated. This report is based soley on the table "event".

JOBBOOK Soldier's Job Book.

The Job Book report uses data from the table "soldierscore" to generate a Job Book style listing for an individual soldier or set of soldiers. All MOS and Common skills tasks trained can be reported in this way.

MOSSCORE0 MOS/Common Skills score summary for the entire battalion.

The MosscoreO report is the first in a series of reports that provide summaries of MOS and Common Skills scores. This report operates at the battalion level while the others provide breakdowns of the numbers at the battery and section level. Using data from the table "soldierscore", the total number of passes, fails and not-evaluateds are counted for each task of the associated with the MOSs specified. It is possible, for example, to request these figures for all 13B10 tasks. For task number XYZ-123-ABCD you might see that 300 soldiers passed it, 200 failed it and 100 were not evaluated. Task XYZ-123-EFGH would very likely return a different set of numbers. The numbers can then be used as an aid in evaluating the effectiveness of the training and as indicators of areas

TRAINING APPLICATION REPORT DICTIONARY

Report Contents

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requiring further attention.

MOSSCORE1 MOS/Common Skills score summary by battery.

The report Mosscore1 is identical to report Mosscore0 except that the counts of passes, fails and not-evaluateds for the tasks in question are calculated by battery instead of for the whole battalion. See report Mosscore0 for more details.

MOSSCORE2 MOS/Common Skills score summary by section.

The report Mosscore2 is identical to reports Mosscore0 and Mosscore1 except that the counts of passes, fails and not-evaluateds for the tasks in question are calculated by section instead of by battalion or battery. See report Mosscore0 for details.

MOSSHEET MOS/Common Skills training score sheet.

The Mossheet report combines data from the tables "event", "eventtask" and "eventsoldier" to produce a score sheet suitable for recording the score each trainee achieves for each task in a specified event. The score sheets can be filled in by the trainer and then be returned to the training NCO for entry of the scores into the data base.

PTQUALV PT Qualification scores with automatic calculation of Pass/Fail.

SCHEDULE Battalion training schedule.

The Schedule report produces a training schedule for the dates and battery specified using the "event" table.

SCHEDULE2 Detailed training schedule.

The Schedule2 report is very similar to the Schedule report except that any units and tasks scheduled for a training event will be shown as well. This report is based on the temporary table "schedule2" which must be regenerated each time the report is run by the Equel procedure SCHEDULE2.

TRAINING APPLICATION REPORT DICTIONARY

Report Contents

SOLDIERSCORE MOS and Common skills training scores.

Summary listing of all ARTEPs, Missions and Tasks stored in the TASKSUMMARY data base.

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The Task Summary report lists all the ARTEPs, Missions and Tasks stored in the database. It consists of a combined listing of the tables "artep", "mission" and "task" sorted in that order. It can be used as a reference when selecting tasks for an event or when verifying the entry of tasks into the data base.

UNITBOOK Unit training scores in a job book format.

The Unitbook report produces a job book style listing of the specified unit(s) training scores. It is based primarily on the table "unitscore".

UNITSCORE Summary of unit training scores across the entire battalion.

The Unitscore report summarizes unit training scores across the whole battalion. The number of Trained, Not Trained, Need Practice and Not Evaluated scores are counted for each unit trained in the tasks in question.

UNITSHEET Unit training score sheet.

The Unitsheet report combines data from the tables "event", "eventunit" and "eventtask" to produce a scoresheet suitable for recording the score each unit receives for each task in a specified event. The score sheets can be filled in by the trainer and then returned to the training NCO for entry of the scores into the data base.

5.6 PROCEDURE DICTIONARY

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TRAINING APPLICATION PROCEDURE DICTIONARY

Procedure	Source File	Form	Contents
ADDEVENT	ADDEVENT.QF	TRADDEVENT	Add a new event to the training schedule.

This procedure is called by procedure DEFINEEVENT. It displays the form Trevent and accepts data in fill mode. When, all data has been entered, the data from the form is written to table Event. The user is then asked if detailed data is to be added. If so, procedure UPDATEEVENT is called. Control is then returned to procedure DEFINEEVENT.

DEFINEEVENT DEFINEEVE.QF TREVDEFINE

Define a training event. Create a new one or add detail to an existing one.

This procedure is called directly from the OSL code for frame Training. When invoked, it displays, in read only mode, the current day's schedule in a tablefield. Various menu commands are provided for Adding, Deleting, Finding and Updating events in the schedule. Except for the Add and Find commands, all functions operate on the event on which the cursor is placed. By providing these functions, it serves as the central control point for working with the schedule.

DELETEEVENT DELETEEVE.QF

Delete a training event from all training event tables.

The training event specified is deleted from the tables Event, Eventunit, Eventtask and Eventsoldier. This routine is called from DEFINEEVENT and consists of standard QUEL delete statements.

FINDEVENT FINDEVENT.QF Find and display the event(s) specified.

This routine is called from DEFINEEVENT to fill the window displayed there only with the training schedule subset that the user wants. The user is prompted for a series of values that are used to build a where-clause for a QUEL retrieve statement. This where-clause is passed to the routine LOADEVENTLIST which actually retrieves the training schedule from the Event table and loads the data into a tablefield.

Procedure	Source File	Form	Contents
ب هان ان کا ه کان کا به کا			
FINDNAME	FINDNAME.QF		Find the name specified in a tablefield with a column called "name".

This routine prompts the user for a name to search for in any tablefield with a column called "name" and attempts to find a match in the tablefield. It is assumed that the calling routine has already loaded the tablefield with data. The form name and tablefield name must be specified by the calling routine. Wild card searches are permitted.

GETARTEP GETARTEP.QF TREVARTEP Prompts user for ARTEP code of training event.

This routine displays a form with a tablefield of all possible ARTEP codes. The user selects the appropriate ARTEP code by typing an "X" next to it. After an ARTEP is selected the routine GETEVENTCODE is called to generate the actual event code, a combination of the ARTEP code, the user's initials and a sequence number.

GETEVENTCODE GETEVENTC.QF

Generates a unique event code for each training event.

This routine is called by the routine GETARTEP to generate training event code from a combination of the type of ARTEP selected by the user, the user's initials and a sequence counter maintained for that user. The sequence counter is maintained in the table Scheduler. For example, if John J. Doe schedules an MOS training event as the 117th event he has created, the code would be MOS:JJD-117.

GETSUBEVENT GETSUBEVE.QF

Creates unique code for training schedule sub-events.

The routine DEFINEEVENT allows a user to attach a sub-event to a main event in the training schedule. This routine generates the unique code that connects the sub-event to its parent. This is done by adding a letter to the end of the parent event's event code. The first sub-event attached to MOS:JJD-117 would be MOS:JJD-117A, the second MOS:JJD-117B etc. Sub-events are used to allow smaller units to specify details about their activities when participating in a training event as a component of a larger unit.

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Procedure	Source File	Form	Contents
HTRAINING	HTRAINING.QF		Displays the help file for the main Training form.
HTRMOSREPS	HTRMOSREP.QF		Displays the help file for the frame Trmosreps (MOS Reports).
HTRREFERENCE	HTRREFERE.QF		Displays the help file for the frame Trreference (Reference data).
HTRREPORTS	HTRREPORT.QF		Displays the help file for the frame Trreports (Training Reports).
HTRSCHEDREPS	HTRSCHEDR.QF		Displays the help file for the form Trschedreps (Training Schedule Reports).
HTRSOLDREC	HTRSOLDRE.QF		Displays the help file for the frame Trsoldrecord (Soldier Records).
HTRUNITREPS	HTRUNITRE.QF		Displays the help file for the frame Trunitreps (Unit Training Reports).
JOBBOOK	JOBBOOK - OF	TRJOBBOOK	Provides access to a soldier's

This routine lets the user add, delete and search for individual soldier training records for MOS and Common Skills tasks. Two tablefields are used. The first can be loaded with a set of names. The second can be loaded with the

training records in a job book format.

Procedure Source File Form Contents	Procedure	Source File	Form	Contents
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scores for the soldier whose name appears in the first window. This routine is intended to be used primarily for viewing records and making minor changes. Large scale loading of records should be done with the routine SCORESOLDIER which is called from DEFINEEVENT.

LOADEVENT	LOADEVENT.QF	TREVENT	Load the details of a training event -
			Units, Tasks and names into table
			fields.

This routine is called by UPDATEEVENT to load detailed information about an event into three tablefields. This information includes units, tasks and names and is drawn from the tables Eventunit, Eventtask and Eventsoldier. This data supplements the background information provided for an event in the table Event and is required in order to record training scores for units and individuals. The user can scroll through the three tablefields to get a complete picture of the event.

LOADJOB	LOADJOB.QF	TR JOBBOOK

Loads the tasks and scores (if any) into the job book form.

This routine is called by JOBBOOK to load a set of tasks and scores into a tablefield in the form Trjobbook for an individual soldier. The tasks loaded are determined by the SSN, MOS and date specified by the calling routine. The data can then be manipulated by the user when control returns to JOBBOOK.

LOADNAMELIST LOADNAMEL.QF

Load a tablefield with UPC, name and MOS data.

This routine prompts the user for the UPC, name or MOS of a soldier and fills the specified tablefield of the specified form with that information. It is a general purpose routine that can be used to load any tablefield containing these variables.

LOOKUPNAME LOOKUPNAM.QF

Helps the user look up the names of the soldiers to be added to a training event.

This routine is called by UPDATEEVENT to allow the user to select names for inclusion in a training event by checking them off a list. In this way the user does not have to know SSNs for the men he is scheduling for training.

Procedure	Source File	Form	Contents
LOOKUPTASK	LOOKUPTAS.QF	TREVTASK	Assists the user in selecting tasks to be trained in an event.

This routine is called by UPDATEEVENT to help the user select the tasks to include in a training event. Tasks are selected by checking them off a list presented in a tablefield. This frees the user from having to remember specific task numbers. The form used is loaded from the tables Mission and Task and the data selected is transferred to the tablefield Tasklist in the form Trevent. See UPDATEEVENT for more details.

LOOKUPUNIT LOOKUPUNI.QF Assist user in selecting units to schedule for a training event.

This routine is called by UPDATEEVENT to assist a user in adding units to a training event. A list of unit names is displayed in a tablefield; the user can select from this list by placing an "X" next to the appropriate units. This releases the user from needing to remember unit names.

PREVENTRPT P	'REVENTRP.QF	Prints	the	Event	report.
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PRINSTRUCRPT PRINSTRUC.QF

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PRJOBBOOKRPT PRJOBBOOK.QF

PRMOSBNPRT PRMOSBNPR.QF

PRMOSBNRPT PRMOSBNRP.QF

Prints the MOS BN scores report.

Prints the MOS BN scores report.

Prints the Instructor report.

Prints the Job Book report.

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Procedure	Source File	Form	Contents
PRMOSBTYRPT	PRMOSBTYR.QF		Prints the MOS battery scores report.
PRMOSSECRPT	PRMOSSECR.QF		Prints the MOS section scores report.
PRMOSSHTRPT	PRMOSSHTR.QF		Prints the MOS score sheet report.
PRPTQUALRPT	PRPTQUALR.QF		Prints the PT Qual report.
PRROSTERRPT	PRROSTERR.QF		Prints the training event roster report.
PRSCHED2RPT	PRSCHED2R.QF		Prints the detailed training schedule, Schedule2.
PRSCHEDRPT	PRSCHEDRP.QF		Prints the training schedule report.
PRTASKSUMRPT	PRTASKSUM.QF		Prints the Task Summary report.
PRUNITBOOK	PRUNITBOO.QF		Prints the unit score book report.

Procedure	Source File	Form	Content	.s					
PRUNITSHTRPT	PRUNITSHT.QF		Prints	the	units	score	sheet	report.	
SCHEDULE2	SCHEDULE2.QF		Builds	the	tempor	ary t	able S	chedule2	

The report Schedule2 is identical to the regular Schedule report except that more detail is included. The specific tasks to be trained are identified by number and title along with unit scores for each task if available. To overcome some formatting limitations which prevent the INGRES Report Writer from handling this directly, it is necessary to build a temporary copy of the schedule table with the task number and title information embedded in the regular description field. In this way the regular Schedule report can handle the details with little modification. This routine is called directly from the OSL code for the frame Trschedreps.

SCORESOLDIER SCORESOLD.QF

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Saves soldiers' training scores by moving them from tablefield to the data base.

used by the report of the same name.

This procedure is called by UPDATEEVENT to build a score sheet of all tasks assigned to an event for each soldier assigned to it. When the data entry is completed, the scores are moved from the tablefield in which they were loaded into the data base.

SCOREUNIT SCOREUNIT.QF Allows user to enter training scores for units.

This routine is called by DEFINEEVENT to allow a user to build a score sheet for each unit assigned to an event. When data entry is complete, the scores are moved to the table "unitscore".

TREVENTRPT TREVENTRP.QF

Prints the training event report.

UNITBOOK UNITBOOK.QF

K.QF TRUNITBOOK

Provides access to unit training scores in a job book format.

This routine provides access to the data in the table Unitscore for simple viewing, update or deletion. Data are presented using an EQUEL/FORMS tablefield

Procedure	Source File	Form	Contents

to permit the user to scroll through as much data as desired. All operations on the data are controlled via a standard EQUEL/FORMS menu which contains the commands Find (searches the tablefield), Update (changes values in the tablefield only), Delete (removes a row) and End (allows user to exit the screen and writes out any changes to the table Unitscore. Two subroutines defined in the same source file - LOADUNITBOOK and UNLOADUNITBOOK - are used to manage the tablefield. This routine is called directly from the ABF frame Trunitscore.

UNLOADEVENT UNLOADEVE.QF

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Unloads detailed event data and saves it in the data base.

This routine is called by UPDATEEVENT to save any updates to detailed event data from the Unit, Task and Name tablefields. Data is either appended to or replaced in the tables Eventunit, Eventtask and Eventsoldier.

UNLOADJOB UNLOADJOB.QF TRJOBBOOK Unload the form Trjobbook and record any changes in the data base.

This routine is called by the routine JOBBOOK whenever it exits to check for any updates that may have been made while JOBBOOK was active. Using standard EQUEL/Fortran, the tablefield Tasklist is unloaded and the "hidden" tablefield columns _State(supplied by EQUEL) and _State2 (supplied by JOBBOOK) indicate the type of database update which must be performed, if any. The appropriate QUEL command - append, replace or delete - is then executed to modify the table Soldierscore.

UPDATEEVENT UPDATEEVE.QF

Allows the user to edit a training event.

This routine allows the user to update a training event by editing the header information found in the table Event or by editing detailed information in the tables Eventunit, Eventtask, Eventsoldier via the routines LOOKUPUNIT, LOOKUPTASK and LOOKUPNAME. It is called from DEFINEEVENT.

5.7 SPECIAL OPERATIONS AND MAINTENANCE PROCEDURES

INGRES tables must be periodically restructured to prevent updates and deletions from causing perfomance degradations. The ".MOD" files in the [ATUTMS.TRAINING] directory contain the necessary QUEL modify commands. They should be executed once a month or more often if performance degrades. The Event and Soldierscore tables should be watched closely due to their size and volatility. An example of using a ".MOD" file is given in Section 2.2.3.4.

Access to INGRES tables is controlled by the permit statements contained in the ".PMT" files in the directory [ATUTMS.TRAINING]. Training

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requires relativly few permits since most of the sensitive data it deals with are already restricted by permits on the Soldier table. These permits are maintained via permit files in the Personnel application. The permits on the Event table are designed to allow everyone to view the table, yet let only the event scheduler perform updates or deletions.

5.8 DEVELOPMENT NOTES

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Due to the relative complexity of its user interface, Training makes much greater use of EQUEL/FORTRAN than do the other applications. Utility routines which make programming in the EQUEL environment much easier are used extensively. These routines usually have the word "FORM" embedded in their names (i.e., MSGFORM, ADDFORM, PUT_FORM, etc.) and are documented in the Utilities application.

Training also uses compiled forms to improve performance. Forms are compiled via the VIFRED catalog menu and then inserted into the library TRAINFORM.OLB via the command procedure COMPFORM.COM. Once in the library file, they are available for linking as discussed in Section 2.2.4.1, Linking Applications.

SECTION 6

LOGISTICS APPLICATION

The Logistics application is designed to allow batallion personnel to keep track of the status of each piece of equipment maintained by the batallion. This includes such things as trucks, jeeps, howitzers, rifles, tents and other equipment necessary to fight a war. The database contains some relatively stable information such as the description, model number, and serial number of each piece of equipment. This information only changes every few months. Also included in the database are highly volatile data such as the current operational status of certain pieces of equipment (vehicles and howitzers), which soldier is currently responsible for each piece of equipment, and service schedules and repair history of each piece of equipment. This data is updated daily by the batallion personnel. Other volatile areas are the Prescribed Load List, and the Document Register. Data is kept here concerning the quantity on hand and re-order status of spare parts. The logistics portion of ATUTMS is also capable of providing printed reports containing current information from the aforementioned areas. Often used reports are those such as the Document Register report, the 2406 Form reports (vehicle status, the Hand Receipt reports (who is responsible for each piece of equipment, and the PLL reports (current status of spare parts).

6.1 BLOCK DIAGRAM

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A high-level view of the Logistics application is presented Figure 6-1. The top third of the diagram illustrates the user interface used to maintain logistics data and generate reports about it. The middle third of the diagram shows the major logistics tables which contain data on hand receipts, repairs, the document register and the Prescribed Load List. The bottom third shows the Personnel tables to which Logistics has the strongest connections.



Figure 6-1. LOGISTICS BLOCK DIAGRAM

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6.2 STRUCTURE DIAGRAM

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The internal structure of the Logistics application is presented in Figure 6-2 terms of the frames(menus), FORTRAN procedures and forms used to define it. The hierarchy of the flow of control is indicated by the indentation on the left. For more information about any item shown below, refer to the dictionaries in the sections which follow.

Figure 6-2. LOGISTICS APPLICATION STRUCTURE DIAGRAM

Entity	Туре	Comments
LOGMENU	FRAME	Logistics main menu
HLOGMENU	PROC	Displays help information.
LODOCUPD	FRAME	Document register menu.
HLODOCUPD	PROC	Help for Doc Reg update.
LOADDDOC	FORM	Add to document register.
LOMODDOC	FORM	Update document register.
LOLOOKDOC	FORM	Retrieve document register.
LODOCREG	REPORT	Run document register report.
LOPRTDOC	PROC	Print document register report.
LOMAINTMENU	FRAME	Service and repair menu.
HLOSERVMENU	PROC	Help.
LOSERVFORM	FORM	Enter service update.
LOREPFORM	FORM	Enter repair update.
LOSERVREP	REPORT	Run service due report.
LOPRTSERV	PROC	Print service due report.
LOREPREP	REPORT	Run repair history report.
LOPRTREP	PROC	Print repair history report.
L02406B	PROC	Generate 2406 backside temporary table.
BACK_2406	REPORT	Run 2406 backside report.
LOPRT2406	PROC	Print 2406 backside report.
L02406F	P ROC	Generate 2406 frontside temporary table.
L02406F	REPORT	Run 2406 frontside report.
LOPRT240F	PROC	Print 2406 frontside report.

Figure 6-2. LOGISTICS APPLICATION STRUCTURE DIAGRAM (continued)

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Entity	Туре	Comments
	FRAME	Prescribed load list menu.
HLOPLIMENU	PROC	Help.
	FORM	Add to pll.
LONDPLI	FORM	lindate n11
LOLOOKPLL	FORM	Retrieve nll.
	PROC	Generate battery nll temporary table.
	REPORT	Run hattery oll report
LOFELREI	PROC	Print hattery nll report
	PROC	Generate battalion nll temporary table
	PEPOPT	Bun battalion nll report
		Run Dectation pil (eport. Print battalion pll report
	FORM	Pil description undate
LUPELDESC	FORM	FIL description update.
LOPROPMENU	FRAME	Property menu.
HLOP ROPMENU	PROC	Help.
LOHANDMENU	FRAME	Hand receipts menu.
HLOHANDMENU	PROC	Help.
LOHANDADD	FORM	Add hand receipts.
LOHANDRET	FORM	Look at hand receipts.
LOHANDUPD	FORM	Update hand receipts.
LOCOMP	FORM	Components data update.
LOHOLDUPD	FORM	Hand receipt holder update.
LOHANDREP	REPORT	Run hand receipt forms report (parent ite
LOPRTHAND	PROC	Print hand receipt forms (parent items).
LOHRCO	PROC	Generate hand receipt forms (components).
LOHRCO	REPORT	Run hand receipt forms report (components
LOPRTHRCO	PROC	Print hand receipt forms (components).
LOPHAND	PROC	Generate hand receipt temporary table.
LOPHAND	REPORT	Run hand receipt report.
LOPHANDPR	PROC	Print hand receipt report.
LOROLLMENU	FRAME	Rollup menu.
HLOROLLMENU	PROC	Help.
LOPSTAT	PROC	Generate status temporary table.
LOPSTAT	REPORT	Run status report.
LOPRTSTAT	PROC	Print property status report.
LOBNROLL	PROC	Generate batallion rollup temporary table
LOBNROLL	REPORT	Run batallion property rollup.
LOPRTROLL	P ROC	Print batallion property rollup.
LOEMTOREP	REPORT	Run table of equipment report.
LOPRTEMTO	PROC	Print table of equipment report.
LOLINE	FORM	Line item update.
LONSN	FORM	NSN table update.

6.3 TABLE DICTIONARY

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LOGISTICS APPLICATION TABLE DICTIONARY

Table	Туре	Contents		
B2MAGJ	data	Contents of original tapes from DLOGS.		
E3WAGJ	data	Contains data from original DLOGS tapes.		
EMTOE	data	Equipment portion of MTOE.		
Used mostly to	o get the quan	tity authorized by unit (sub-section of a battery).		
G3WAGJ	data	Contains data fromm original DLOGS tapes.		
HANDRPT	data	Temporary table used to generate Hand Receipt report.		
HOLDRPARAX	index	Index on table "loholder".		
LOBNPLLRPT	data	Temporary table created for report "lobnpllrep".		
LOCOMP	data	logistics property components.		
This table contains information about hand receipt components. An example would be a tool box. A tool box has a stock number, but each part (the case, and each tool) has its own stock number. This table is used in conjunction with the LOHAND table to generate hand receipt forms.				

LODOCREG data Logistics document register.

This is a stand-alone table that contains all the information necessary to keep track of parts that have been ordered.

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Table	Туре	Contents		
LOEXCESSPART	data	Logistics excess parts.		
This table contains information needed to keep track of excess parts. When parts are found to be in excess of the authorized quantity, they are not returned to the supply depot, but are kept for a short time in case they may be needed by another battery. This table can be used to match against the lohand, LOPLL, and LODOCREG tables to determine where parts are needed.				
LOHAND	data	Logistics hand receipt information.		
This table contains information about each item that is 'owned' by each soldier. It is used in conjunction with the LOHOLDER and LOCOMP tables to generate hand receipts.				
LOHANDRET	view	View of lohand with soldier name and item description included.		
LOHOLDER	data	Logistics hand receipt holders.		
This table contains information about each holder of a hand receipt. It is used in conjunction witht the LOHAND and LOCOMP tables to generate hand receipts.				
LOLINE	data	Logistics line items.		
This table co	ntains informa	tion about each line item number.		
LONSN	data	Logistics stock number information.		
This table co	ontains informa	tion about each kind of item by stock number.		
LOPLL	data	Logistics Prescribed Load List.		

This table contains information about each type of spare part that is on the Prescribed Load List.

LOPLLDESC data Logistics Prescribed Load List descriptions.

This table contains the description of each item in the Prescribed Load List.



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Table	Туре	Contents
UBNROLL	data	Temporary intermediate table generated by the battalion rollup report procedure.
ULOPSTAT	data	Temporary intermediate table generated by the Property Status report procedure.
V2406F	data	Temporary intermediate table generated by the 2406 frontside report procedure.
VEHTYPE	data	Translates vehicle codes to vehicle names.
WEAPTYPE	data	Translates weapon code to weapon name.
X1EMTOE	index	Index on table "EMTOE".
X1LODOCREG	index	Index on table "lodocreg".
XILOHAND	index	Index on table "lohand".
XILOPLL	index	Index on table "lopll".

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Table	Туре	Contents
X2LOHAND	index	Index on table "lohand".
X3LOHAND	index	Index on table "lohand".
X4LOHAND	index	Index on table "lohand".
X5LOHAND	index	Index on table "lohand".

6.4 REPORT DICTIONARY

LOGISTICS APPLICATION REPORT DICTIONARY

Report Contents

BACK 2406 DA form 2046 backside report.

This report reads the contents of temporary table t2406b and outputs all rows where the action code is not 'R', and the date-not-available is not blank, or the date admitted to support maintenance is not blank.

BTRY ROLLUP Battery level rollup report.

BT PROP LIST Battery level property list.

HANDRECEIPT Hand receipt report.

LO2406F DA form 2406 frontside report.

This report reads the contents of temporary table "t2406f" and outputs all the rows sorted by sequence number.

LOBNPLLREP Batallion Prescribed Load List report.

This report reads the contents of temporary table lobnpllrpt and outputs all the rows sorted by NSN.

LOBNROLL Batallion Property Rollup report.

This report reads the contents of temporary table "tbnroll" and outputs all the rows sorted by RLIN,UIC.

LODOCREG Document Register report.

This report reads the contents of table "lodocreg" and outputs all the rows that contain the user's dodaac code, with the following modifications: transaction date is the left 4 characters of the document number, document serial number is the right 4 characters of the document number. The NSN gets hyphens inserted in it in the following format; 'xxxx-xx-xxxx'. The followup field is the follow-up status concatenated with the follow-up text (usually only one will be present). The rows are sorted by DODAAC, transaction date, and document serial

LOGISTICS APPLICATION REPORT DICTIONARY

Report Contents

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LOEMTOE Table of Equipment report.

This report reads the contents of the "emtoe" table and outputs all the rows with the description from "loline" where a match occurs on line number.

LOEXCESSREPT Excess parts report.

LOHANDREP Hand Receipt Forms report.

This report reads the contents of several tables and outputs the following fields from "loholder": UIC, handreceipt#, SSN of holder. From "lohand": line number, NSN, serial#, and on hand quantity. From soldier: soldier name. From "loline": description, model, and unit of issue. Only UICs and hand receipt numbers are used that match those specified by the user. The rows from the tables are matched on UIC, handreceipt#, SSN of holder, and line number. The rows are output sorted by UIC, hand receipt#, and NSN.

LOHRCO Hand Receipts Components report.

This report reads the contents of the "lohand" table and outputs all rows that have a 'Y' in the comp field where the line number matches that of the parent UIC, handrec, and NSN specified by the user. The report looks very similar to the regular Hand Receipt report except that it lists just the components of one parent item by type (i.e., each of COEI, AAL, and BII types are printed on a separate page).

LOPHAND Hand Receipt report.

This report reads the contents of temporary table "tlophand" and outputs all the rows sorted by LIN, comp, NSN, serial.

LOPLL Precribed Load List report.
LOGISTICS APPLICATION REPORT DICTIONARY

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Report Contents

LOPLLREP Battery Prescribed Load List report.

This report reads the contents of temporary table "lopllrpt" and outputs all the rows where the UIC matches that specified by the user, sorted by UIC, NSN. In addition, the battery is obtained from the "batterycodes" table where a match is found on UIC.

LOPROPTY Property report.

LOPSTAT Property Status report.

This report reads the contents of temporary table "tlopstat" and outputs all the rows sorted by LIN, NSN, serial.

LOREPREP Repair History report.

This report reads the contents of "lorepair" and outputs all the rows sorted by bumprack, occur. In addition, description and model are obtained from "loline", and bumprack and UIC are obtained from "lohand". Matches are made on NSN, serial and LIN.

LOSERVREP Service Schedule report.

This report reads the contents of the "loservice" table and outputs all the rows where the service-performed-date is blank, the UIC matches that specified by the user, and where the due date falls within the period specified by the user. The following fields are obtained from "loline": description and model (where a match occurs on LIN). The following fields are obtained from "lohand": bumprack, UIC, NSN, and serial (where a match occurs on NSN, and serial). The rows are sorted by bumprack and due.

Procedure	Source File	Form	Contents
HLODOCUPD	HLODOCUPD.QF		Prints the Document Register menu help file.
HLOGMENU	HLOGMENU.QF		Prints the main menu help file.
HLOHANDMENU	HLOHANDME.QF		Prints the Hand Receipt menu help file.
HLOMAINTMENU	HLOMAINTM.QF		Prints the maintenance menu help file.
HLOPARTSMENU	HLOPARTSM.QF		Prints the Parts menu help file.
HLOPROPMENU	hlopropme .QF		Prints the Property menu help file.
HLOROLLMENU	HLOROLLME.QF		Prints the Rollup menu help file.
L02406B	LO2406B.QF		Creates temporary table t2406b from which the 2406 backside report is printed.

This procedure creates temporary table "t2406b" containing a row for every 2406 reportable item (vehicles, howitzers, etc.) that is in the "lorepair" table. Next, niino is fetched from the "lodocreg" table for all rows that have parts on order. Then, all action codes 'R' are changed to 'Z' and the table is sorted by 2406 sequence number, serial number, occurrence date (reverse chronological order), and action code (reverse alphabetical order). Then, each row is read from the beginning of the table. If the first row for a particular item is a 'Z' (repaired) all remaining rows for that vehicle are skipped. Otherwise the

Procedure	Source File	Form	Contents
به به به مه مه او به م	که انه دو نوخو که که دو دن دو کو که	وب جو و و و و و و و و و	

occurrence date is copied to the appropriate field to indicate when the action occurred. Finally, action codes are changed from their original O, S, and X to B, C, and D and the table is ready for the 2406 backside report.

L02406F L02406F.QF

Creates temporary table t2406f for the 2406 frontside report.

This procedure first asks the user for the reporting period (beginning and ending dates), then creates temporary table t2406f containing a row for each row in the "lohand" table that has a non-blank 2406 sequence number. The fields lin and rlin are then copied over from "lohand". The model field is copied from loline. The on-hand quantities are summarized by segno and copied from "lohand". The procedure next calculates the possible days as the quantity on-hand multiplied by the number of days in the reporting period for each row. Temporary table u2406f is created and filled with data from the "lorepair" table where a match is found on nsn and serial number. All 'R' action codes are changed to 'Z' and the table is sorted into reverse chronological order. All repair dates that fall outside the reporting period are changed to the closest date of the reporting period and the number of days each action code was in effect is calculated. The following are tallied and placed in t2406f: total non-available days, organization maintenance days, support supply days, and support maintenance days (for each row in t2406f). Next, the total available days is calculated as possible days minus non-available days. Next. temporary table v2406f is created and filled with one row for each sequence number in t2406f that has a trailing alphabetic character (the character is removed for this table.) All numeric fields in t2406 are summarized and placed in the rows in v2406f. When the rows are copied into t2406 it is ready for printing.

LOBNPLLUPD LOBNPLLUP.QF

Creates temporary table "lobnpllrpt" containing Battalion PLL data.

This procedure creates temporary table "lobnpllrpt" containing data from "lopll", "loplldesc", and "lodocreg" where a match is found on NSN. The table is left ready to be printed by the Battalion PLL report.

LOBNROLL LOBNROLL.QF

Creates temporary table "tbnroll" containing Battalion Property Rollup data.

This procedure creates temporary table "ubnroll" containing all known line numbers and UICs from the "loline" table. Then the table is sorted by rlin and UIC to remove duplicates. Next, another temporary table called "tbnroll" is created and

Procedure	Source	File	Form	Contents

filled with the rows from "ubnroll" (extra fields are initialized with blanks). Required and authorized quantities are copied in from the "emtoe" table, nsn, substitute line and on-hand quantities are copied in from the "lohand" table. Percent fill is calculated for each reportable line number as the sum of the on-hand quantities over the sum of the authorized quantities. Finally, description, model, unit of issue, and erc are copied from "loline". When price is copied from "lonsn" the table is ready to be printed.

LOHRCO LOHRCO.QF

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Creates temporary table "tlohrco" containing Hand Receipt Components data.

This procedure creates temporary table "tlohrco" from the rows in "lohand", "locomp", loline where a match is found on the parent nsn's line number. Also, the holders ssn and name are obtained from "loholder" and "soldier" tables.

LOPHAND LOPHAND.QF

Creates temporary table "tlophand" containing info for the hand receipt report.

This procedure creates temporary table "tlophand" containing the following fields from "lohand": lin, rlin, nsn, serial, usa, bumprack, comp, seqno, auth, on-hand, unit, and handrec. Then the following fields are initialized with blanks, then filled in (where data exists) from "loline", "loholder", "lorepair", "soldier", "locomp", and "lonsn": desc, model, sec, name, status, action, remark, job, req, and occur. Note, only the most recent rows from "lorepair" are used. Finally, rlin is replaced with blanks where it is the same as lin. Then the table is ready to be printed. The purpose of this report is to provide all the information that is known about each item of property within the battalion.

LOPHANDPR LOPHANDPR.QF

Prints the Parent Item Hand Receipts.

This procedure prints the contents of the lophand.lis file created by the "lophand" report.

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Procedure	Source File Form	Contents
LOPLLUPD	LOPLLUPD.QF	Creates temporary table "lopllrpt" containing battery PLL data.
This procedu "loplldesc", report is to Prescribed I	are creates temporary table ' , and "lodocreg" where a mate o provide all the known infor Load List, including all item	"lopllrpt" from the rows in "lopll", ch is found on nsn. The purpose of the rmation about the current state of the ns on order in the document register.
LOPROPTY	LOPROPTY.QC	Prints the property report.
LOPRT2406	LOPRT2406.QF	Prints the 2406 backside report.
This procedu "back_2406",	are prints the contents of fi	ile lo2406b.lis created by report
LOPRT240F	LOPRT240F.QF	Prints the 2406 frontside report.
This procedu "lo2406f".	are prints the contents of fi	ile lo2406f.lis created by report
LOPRTBNPLL	LOPRTBNPL.QF	Prints the battalion PLL report.
This procedu "lobnpllrep"	are prints the contents of fi '.	ile lobnpll.lis created by report
LOPRTDOC	LOPRTDOC.QF	Prints the Document Register report.
This procedu "lodocreg."	are prints the contents of fi	ile lodocreg.lis created by report
LOPRTEMTO	LOPRTEMTO.QF	Prints the Table of Equipment report.
This procedu "loemto".	are prints the contents of fi	ile loemtoe.lis created by report
LOPRTHAND	LOP RTHAND . QF	Prints the Hand Receipt forms. (Parent items.)
This procedu "lohandrep".	are prints the contents of fi	ile lohand.lis created by report
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Procedure	Source File Form	Contents
LOPRTHRCO	LOPRTHRCO.QF	Prints the Hand Receipt Components forms.
LOPRTPLL	LOPRTPLL.QF	Prints the battery PLL report.
This procedure	e prints the contents of fi	le lopll.lis created by report "lopllrep".
LOPRTREP	LOPRTREP.QF	Prints the Repair History report.
This procedure "loreprep".	prints the contents of fi	le loreprep.lis created by report
LOPRTROLL	LOPRTROLL.QF	Prints the Battalion Property Rollup report.
This procedure "lobnroll".	prints the contents of fi	le lobnroll.lis created by report
LOPRTSERV	LOPRTSERV.QF	Prints the Service Due report.
This procedure "loservrep".	e prints the contents of fi	le loservrep.lis created by report
LOPRTSTAT	LOPRTSTAT.QF	Prints the Property Status report.
This procedure "lopstat".	e prints the contents of fi	le lopstat.lis created by report
LOPSTAT	LOPSTAT.QF	Creates temporary table tlopstat for the Property Status report.
This procedure "tlopstat" con serial, usa, from "loline"	e first asks the user for h ntaining the following data bumprack, seqno, onhand, an are added to those rows al	is UIC, then creates temporary table from table "lohand": uic, lin, rlin, nsn, d handrec. Then the following fields ready in place: desc, model, and unit of

issue. Then the hand receipt holders name is copied from the soldier table. Then another temporary table called "ulopstat" is created to hold all the repair history from "lorepair". The latest repair action, status, remarks, requisition number, and job number is copied to the "tlopstat" table (for all those items that have repair history). The tlopstat "table" is now ready for printing.

Procedure	Source File	Form	Contents
LOREPUPD	LOREPUPD.QF		Allows user to update the Repair History table.

This procedure first asks the user for his UIC, and the bumper number of the vehicle, generator, or howitzer he wishes to access. The procedure next displays a screen showing the latest repair history records for this item and allows the user to update the job number, req number, and remarks of old records or to enter the date, type of action, status code, etc., of new records. The user may also delete old records. This table is used to create the repair history report, and also the 2406 frontside and backside reports; in addition the latest repair history is used in the property status, and hand receipt reports.

LOSERVUPD LOSERVUPD.QF Allows the user to update the Service Schedule table.

This procedure first asks the user for his UIC, and the bumper number of the vehicle, generator, howitzer etc., he wishes to access. The procedure next displays a screen showing all the currently scheduled services for this item, and allows the user to update the actual servce performed data for old records, or enter new records. The user may also delete old records. The information in this table is used to produce the service schedule report.

6.6 SPECIAL OPERATIONS AND MAINTENANCE PROCEDURES

The ".MOD" files found in the directory [ATUTMS.LOGISTICS] should be executed periodically to prevent updates from causing performance degradations. The tables "lohand" and "lodocreg" should be watched closely due to their size and volatility. An example of using a ".MOD" file is given in Section 2.2.3.4.

As new users are authorized to use the Logistics application and old users are transferred to other duties, the ".PMT" files which contain the table access permits for Logistics must be updated and executed. An example of executing a ".PMT" file is given in Section 2.2.3.5.

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SECTION 7

UTILITIES APPLICATION

The Utilities application is intended to give ATUTMS access to VMS system utilities and information. It currently provides access to the VMS MAIL program and makes available the identities of all ATUTMS users via an INGRES table (Users) which is initialized from the VMS User Authorization File (UAF). It also provides a place to locate various FORTRAN utility subroutines shared by the Personnel, Training and Logistics applications. These include subroutines for printing reports and using EQUEL/FORTRAN.

7.1 DESIGN PHILOSOPHY

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The Utilities application is intended to provide the standard ABF menu interface to VMS utility programs. VMS programs, such as MAIL, can be called from ABF by creating a FORTRAN procedure and calling the system library routine LIB\$SPAWN to run a DCL command or command procedure as a subprocess. When the subprocess terminates, control is returned to ABF.

7.2 BLOCK DIAGRAM

A high-level view of the Utilities application is shown in Figure 7-1. Note the lack of strong links to any of the other applications. The services provided here are strictly for convenience of the user or programmer.

7.3 STRUCTURE DIAGRAM

The internal structure of the Utilities application is presented in Figure 7-2 in terms of the frames (menus), procedures and forms used to define it. The hierarchy of the flow of control is indicated by the indentation on the left. For more information about any item shown below, refer to the dictionaries in the sections which follow.





Figure 7-2. UTILITIES APPLICATION STRUCTURE DIAGRAM

Entity	Туре	Comments	•
UTILTITYMENU	FRAME	Main Utilities menu.	
MAILCALL	PROC	Spawns VMS MAIL command.	
USERMENU USERAPPN USERUPD USERRET USERPRNT USERPRNT	FRAME FORM FORM FORM PROC PROC	Provide access to User names. QBF form for append to Users table. QBF form for update to Users table. QBF form for retrieve of Users table Spawns USERPRNT.COM DCL proc runs prints report	

7.4 PROCEDURE DICTIONARY

UTILITIES APPLICATION PROCEDURE DICTIONARY

Procedure	Source File	Form	Contents
APPENDFORM	APPENDFOR.QF		Simulates QBF in Append mode from EQUEL/FORTRAN for any INGRES table.

Given a form name and a character array of sufficient size, this routine simulates the operation of QBF in append mode from EQUEL/FORTRAN. Parameterized QUEL and forms statements are automatically generated with the utility routines SPECFORM and GENADDR. All numeric types of storage are provided as well. The programmer has only to create a form with VIFRED, specify its QBF name and provide an array of character strings large enough to hold the largest string in the table (see the routine GENADDR1 for an exception). The information about this form as well as the database/forms data transfer buffers are located in the common block FORMS(see the file FORMSBLOCK.QF in the Utilities application directory). To change the maximum number of fields in a form that this routine can handle, the common block must be updated.

APPENDROW APPENDROW, QF

Appends a row to the table specifed in the common block FORMS.

This routine appends a row to the table currently identified in the common block FORMS. This block must first be initialized by the routines SPECFORM (collects control information) and GENADDR (assigns data transfer buffers) before calling this routine. See APPENDFORM for an example of how this is useful as a generalized Append statement. The common block QUEL is also referenced by this routine. It is defined in the file QUELBLOCK.QF in the Utilities application directory.

BEEPFORM	BEEPFORM.QF	Rings the bell at the terminal from EQUEL/FORTRAN.
BUILDMSG	BUILDMSG.QF	Builds a string out of three substrings to allow embedding of values in messages.
CHECKDATE	CHECKDATE.QF	Checks a string for a valid INGRES date format, returns error flag if not.

Procedure	Source File	Form	Contents
CLEARFORM	CLEARFORM.QF		Clears the terminal screen from EQUEL/FORTRAN.
FIELDOPER	FIELDOPER.QF		Converts the relational operator code number used by EQUEL/FORMS to <,=,>, etc.
The INQUIRE_FI entered into a to the appropr	RS statement ca a form by the riate ASCII cha	an be used to o user. This rout aracter.	obtain the type of relational operator tine converts the code number obtained
FIELDTYPE	FIELDTYPE.QF		Converts the data type code of a field on a form to i4, f8 or c.
The EQUEL/FOR code of the cu converts that	IRAN INQUIRE Fi urrent field (a code to its c	RS statement ca as determined b haracter repres	an be used to retrieve the data type by the cursor position). This routine sentation - i4, f8 or c.
FORMTABLE	FORMTABLE.QF		Identifies table on which a form is defined using the Qbfmap system catalog.
GENADDR	GENADDR.QF		Generates addresses of data transfer

Generates addresses of data transfer areas for database <-> transactions.

This routine can be used along with SPECFORM to initialize the common block FORMS with addresses of data transfer areas required for using parameterized EQUEL and FORMS statements. Automatic generation of parameter lists frees the programmer from a significant amount of detail work. See APPENDFORM and APPENDROW for an example of how it is used.

GENADDR1 GENADDR1.QF Provides storage for very long strings using common block FORMS.

This routine provides an alternative means of allocating storage for routines such as APPENDFORM which provide generalized database/forms data transfers. It allows you to specify individual buffers for very long strings as opposed to using entire arrays as in the routine GENADDR. See the routines GENADDR and SPECFORM for details.

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Procedure	Source File For	m Contents	
GENTARGET	GENTARGET.QF	Builds target strings for parameterized EQUEL statements.	
This routine parameterized structure of	is normally called list for transfer the form. An examp	from within a FORMDATA loop to build up a ring data to or from a form based on the le of this can be found in SPECFORM.	
GENWHERE	GENWHERE.QF	Generate a "where-clause" while looping through a FORMDATA loop.	
This procedure is called by READFORM to build up a "where-clause" for a query based on the data entered by the user. In this way it can be used to simulate QBF from FORTRAN. See also QUERYFORM and SHOWFORM.			
GETROW	GETROW.QF	Parameterized EQUEL getrow command using data in common block FORMBLOCK.	
GET_FORM	GETFORM.QF	Parameterized EQUEL getform command using common block FORMBLOCK.	
HELPFILE	HELPFILE.QF	Allows user to page through a help file a screen at a time.	
MAILCALL	MAILCALL.QC	Spawns a subprocess which calls the VMS MAIL utility.	
MENUFORM	MENUFORM.QF	Simulates an EQUEL command menu in FORTRAN with partial character matches.	

Procedure	Source File	Form	Contents
MSGFORM	MSGFORM.QF		Build a message and send it to the screen in an EQUEL environment.
PRINTCIT	PRINTCIT.QF		Send a file to a CIT-1550B printer attached to a CIT-101 terminal aux. port.
PRTREPORT	PRTREPORT.QF		Print an ATUTMS report at a local printer.
PUT_FORM	PUTFORM.QF		Parameterized EQUEL putform command using data in common block FORMBLOCK.
QUERYFORM	QUERYFORM.QF		Simulates QBF in query mode from EQUEL/FORTRAN.
READFORM	READFORM.QF		Reads a form and builds a query based on data entered by the user.
REPLACEROW	REPLACERO.QF		Parameterized EQUEL replace statement using data in common block forms.
RETRIEVEROW	RETRIEVER.QF		Parameterized EQUEL retrieve statement using data from common block FORMBLOCK.

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Procedure	Source File	Form	Contents
SETWIDTH	SETWIDTH.QF		Sets a VT100-compatible terminal to the desired width for viewing or printing.
SHOWFORM	SHOWFORM.QF		Displays a form using data in common block FORMBLOCK (see QUERYFORM).
SPECFORM	SPECFORM.QF		Read a form via FORMSLOOP and initialize the common block FORMBLOCK.
STRCAT	STRCAT.QF		Concatenate twp strings in FORTRAN.
TRAPDESTROY	TRAPDESTR.QF		Trap an INGRES destroy error message.
TYPEFILE	TYPEFILE.QF		Display a file on a VT100-compatible terminal at the appropriate width.
USERPRNT	USERPRNT.QC		Run and print a report on ATUTMS users.
WINDOWFORM	WINDOWFOR.QF		Put text into any window on the screen.

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Procedure	Source File	Form	Contents
YESNO	YESNO.QF		Prompt user for YES or NO answer in the EQUEL/FORTRAN environment.

7.5 SPECIAL OPERATIONS AND MAINTENANCE PROCEDURES

To add or modify a FORTRAN utility subroutine, an ABF procedure frame must be created in Utilities and be used to create and compile the subroutine. This puts it into the ABF object library file. It must then be transferred to the ATUTMS EQUEL/FORTRAN library file [ATUTMS.UTILITIES]EQUELFORT.OLB so that it will be available to ABF when an application is linked (See 2.2.4.1). The command procedure [ATUTMS.UTILITIES]EQUELFORT.COM should be used to move it the EQUEL/FORTRAN library after compiling.

The table Users must be periodically updated from the VMS UAF file by using MC AUTHORIZE (see VAX System Management and Operations Guide) to generate a new list of users, editing this file, and then loading it into the table Users via the QUEL Copy command.

7.6 DEVELOPMENT NOTES

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Other programs which could be made available from Utilites include PHONE, MUSE and FINGER (lists current users and their activities).

SECTION 8

ATUTMS SYSTEMS OPERATIONS

Some common procedures required to operate and maintain both VMS and INGRES are highlighted here. The documents noted should be referenced for complete details.

8.1 VMS PROCEDURES

8.1.1 Security

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Refer to the VAX/VMS System Management and Operations Guide, Chapter 3 for details on security. Note that all security ultimately depends on a user's password. It must be protected at all times and changed frequently.

8.1.2 Authorizing New VAX Users

Refer to the VAX/VMS System Management and Operations Guide, Chapter 2 for user authorization procedures. All personnel requesting an account must first obtain permission from their commander or his representative.

8.1.3 Backing Up The System On Tape

The disk drive must periodically be copied to tape to provide a recovery capability in case of disk failure or accidental deletion of files. The frequency with which backups are made depends on the level of activity on the system. The maximum interval should be no more than one week. Several versions of previous backup tapes should be made for protection against tape failure. Details in the BACKUP command can be found in the RMS Utilities Reference Manual.

8.1.4 Tracking Errors

The mail box GRIPE should be checked periodically for complaints from users. The mail box SUGGESTION should also be checked. The analysis of each problem and its eventual solution should be forwarded to the mail box ATUTMS.

8.2 INGRES PROCEDURES

8.2.1 Authorizing New INGRES Users

After a new user has received a VMS account and password, he can be given access to the ATUTMS database by running the ACCESSDB program described in the INGRES Installation and Operations Guide. Care must be taken to assign each user the appropriate priviliges both within ACCESSDB and in the permit files (see the section below on Security).

8.2.2 Maintenance

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Several maintenance procedures common to INGRES databases are outlined below. The documents noted should be referenced for full instructions.

8.2.2.1 Security

Security depends on maintaining the permit (.PMT) files found in each application directory (i.e., [ATUTMS.PERSONNEL], [ATUTMS.TRAINING] etc.). Personnel requesting access to the ATUTMS should have authorization from their commander or his representative. INGRES uses the VMS username as the basis of its protection so users must be encouraged to keep their VMS passwords secret.

8.2.2.2 Running SYSMOD

About once a month, a SYSMOD should be run on the ATUTMS database to permit optimal performance. This should be done during off-peak hours. See the INGRES Reference Manual for more details. A SYSMOD should also be run periodically on INGRES' internal database "DBDB". See the INGRES Installation and Operations Guide for details.

8.2.2.3 Running RESTOREDB

If a serious error occurs, such as the machine crashing due to a power failure or a user using CTRL-Y to exit the database, it may be necessary to run RESTOREDB to close open files and perform general clean up. If this is required, INGRES will write a message to the screen informing you that a RESTORE is necessary. See the INGRES Reference Manual for more details.

8.2.2.4 Running UNLOADDB

The ATUTMS database can be copied to standard VMS files by using the VMS BACKUP utility. This is a convenient way to make an extra copy of the data while testing the system.

APPENDIX A

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ATUTMS DATABASE TABLES

This appendix lists every table in the ATUTMS database alphabetically. The type of table, the application which maintains it and a brief description of its contents are also included.

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Table	Туре	Application	Contents
ARTEP	data	training	ARTEP codes and titles.
ASSIGNED	view	personnel	Subset of the fields in the soldier record that are used to assign a new soldier.
ATTACHED	view	personnel	Contains fields in soldier table needed if he is attached.
ATTFORMAT	data	dd	Converts internal INGRES data type codes to their full names.
B2MAGJ	data	logistics	Contents of original tapes from DLOGS.
BATTERYCODES	data	personnel	Translation of battery mnemonics to UPC and UIC codes.
BNPERSONN	data	personnel	Temporary table used by report Bn personnel.
CIVEDCODES	data	personnel	Civilian education codes.
CLEARANCE	data	personnel	Contains codes for security clearances.
CONDITIONS	data	personnel	Contains conditions for special condition
		-	roster and their deployability.
DAILYRPT	data	personnel	Temporary table used in generating Daily Status Report.
DAILYSTATUS	data	personnel	Temporary table used by report Daily status.
DRIVERS	data	personnel	This table identifies drivers and the types of licenses they hold.
DRIVSSNX	index	personnel	Index on table "drivers".
E3WAGJ	data	logistics	Contains data from original DLOGS tapes.
EMTOE	data	logistics	Equipment portion of MTOE.
EVENT	data	training	Time, location, subject and participants of scheduled training events.
EVENTSOLDIER	data	training	Identifies individual soldiers to be trained in a scheduled training event.
EVENTSUMMARY	view	training	This view is used by report Event.
EVENTTASK	data	training	This table identifies the tasks to be trained in a scheduled training event.
EVENTUNIT	data	training	This table identifies the units participating in a scheduled training event.
G3WAGJ	data	logistics	Contains data fromm original DLOGS tapes.
GRADES	data	personnel	This table cross references grade to rank.
GTRPT	data	personnel	Temporary table used to generate GT score
			report.
HANDRPT	data	iogistics	Temporary table used to generate Hand Receipt report.
HOLDRPARAX	index	logistics	Index on table "loholder".
LOBNPLLRPT	data	logistics	Temporary table created for report lobnpllrep.

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Table	Туре	Application	Contents
9#9922 0 77222		_	######################################
LOCOMP	data	logistics	logistics property components.
LODOCREG	data	logistics	Logistics document register.
LOEXCESSPART	data	logistics	Logistics excess parts.
LOHAND	data	logistics	Logistics hand receipt information.
LOHANDRET	view	logistics	View of lohand with soldier name and item
LOHOLDER	data	logistics	Logistics hand receipt holders
LOLINE	data	logistics	Logistics line items.
LONSN	data	logistics	Logistics stock number information.
LOPLL	data	logistics	Logistics Perscribed Load List.
LOPLLDESC	data	logistics	Logistics Perscribed Load List descriptions.
LOPLLRPT	data	logistics	Temporary table created for report loplinep.
LOREPAIR	data	logistics	Logistics vehicle repair history.
LOSERVICE	data	logistics	Logistics vehicle service schedules.
MILEDCODES	data	personnel	Military education codes.
MISSION	data	training	Missions for which units must be trained.
MOS	data	personnel	Current MOS codes available in the battalion.
		P	Temporary table.
MOSSCORE	view	training	This view is used by the Mosscore reports.
MOSSCORE2	view	training	View used by report Mosscore2.
MPCCODES	data	personnel	This table assigns a non-alphabetic sort
		F	sequence to military position codes.
OMPOSX	index	personnel	index on OMTOE for position.
OMTOE	data	personnel	Personnel portion of the Modification Table
		•	of Organization and Equipment.
PERSONAL	view	personnel	Contains those fields in the soldier record
000	daha		or a personal nature.
FRF PTOUAL V	data	personnel	View of table TTPTOUAL which externationally
PIQUALV	View	training	calculates pass/fail using score data.
QUALS	view	personnel	Contains those fields in the soldier record
		-	that relate to his qualifications.
RELIGION	data	personnel	Religious preference codes.
SCHEDULE2	data	training	Temporary table used by report Schedule2, the
		_	detailed training schedule.
SCHEDULER	data	training	Initials of training event scheduler and
			count of events scheduled.
SCTYSTATS	data	personnel	Contains the codes for security clearance
			investigation status.
SEPRATS	data	personnel	Temporary table used in "canned query" for
			separate rations.

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Table	Туре	Application	Contents
SERVICE	view	nersonnel	Contains those fields in the soldier record
SERVICE	ATCM.	bet pouner	that relate to the service as a whole.
SIDPERS	data	personnel	Contains all the fields exactly as they are
			on the SIDPERS SPF file.
SKILLINVTRY	data	personnel	Temporary table used by the report
SOLDIER	data	nansonnal	Skill_invtry.
SOLDIER	data	personnel	Distingui for the fields in the SOLDIER
SOLDIERDD	uala	personnei	table.
SOLDIERSCORE	data	training	Common skills and MOS training scores.
SONAMEX	index	personnel	Index on table "soldier".
SOPOSX	index	personnel	Index on position in the table "soldier".
SORTMPC	data	personnel	Assigns non-alpha sort code to Military.
		-	Position Codes - O,W,E.
SOSSNX	index	personnel	Index on ssn for the table "soldier".
SPECIAL	data	personnel	Contains soldiers with special or derrogatory
			conditions.
STATCODES	data	personnel	Personnel status codes.
STATSSNX	index	personnel	Index on ssn for the table "status".
STATUS	data	personnel	Daily status of each soldier.
т2406в	data	logistics	Temporary table containing data for the 2406
		_	backside report.
T2406F	data	logistics	Temporary table created for report 1o2406f.
TASK	data	training	Code and title of all tasks, collective and
TASKSIIMMARV	view	training	View used by menomt Testsummeny
TRNROLI	data	logistics	Temporary table greated for report lobrall
TLOPHAND	data	logistics	Temporary table created for report lophand
TLOPSTAT	data	logistics	Temporary table created for report lopstat.
TRANSIENT	data	personnel	Codes for transient personnel used primarily
		p • • • • • • • • • • • • • • • • • • •	by report Unit manning.
TTPTQUAL	data	training	PT qualification data.
TTWEAPONQUAL	data	training	Weapons qualification data.
U2406F	data	logistics	Temporary intermediate table generated by the
		-	2406 frontside report procedure.
UBNROLL	data	logistics	Temporary intermediate table generated by the
			Batallion rollup report procedure.
ULOPSTAT	data	logistics	Temporary intermediate table generated by the
			Property Status report procedure.
UMR	data	personnel	Temporary table used by report unit manning.
UNITDATA	view	personnel	Contains those fields in the soldier record
			relating to his current unit.

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Table Type		Application	Contents
UNITS	data	personnel	Unit names down to the section level.
UNITSCORE	data	training	Scores of collective task training.
USERS	data	utility	Names of system users.
V2406F	data	logistics	Temporary intermediate table generated by the 2406 frontside report procedure.
VEHTYPE	data	logistics	Translates vehicle codes to vehicle names.
WEAPTYPE	data	logistics	Translates weapon code to weapon name.
X 1 EMTOE	index	logistics	Index on table "emtoe".
X1LODOCREG	index	logistics	Index on table "lodocreg".
X1LOHAND	index	logistics	Index on table "lohand".
X1LOPLL	index	logistics	Index on table "lopll".
X2LOHAND	index	logistics	Index on table "lohand".
X3LOHAND	index	logistics	Index on table "lohand".
X4LOHAND	index	logistics	Index on table "lohand".
X5LOHAND	index	logistics	Index on table "lohand".
XARTEPARTEP	index	training	Index on table "artep".
XEVENT1	index	training	Index on table "event".
XEVSOLD1	index	training	Index on table "eventsoldier".
XEVTASK1	index	training	Index on table "eventtask".
XEVUNIT1	index	training	Index on table "eventunit".
XSOSCORE 1	index	training	Index on table "soldierscore".
XSOSCORE2	index	training	Index on table "soldierscore".
XSOSCORE3	index	training	Index on table "soldierscore".
XTASK1	index	training	Index on table "task".
XUNSCORE 1	index	training	Index on table "unitscore".
XUNSCORE2	index	training	Index on table "unitscore".

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APPENDIX B

DETAILED TABLE DICTIONARIES

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Size Table/Field Contents Table/Field Type ASSIGNED Subset of the fields in the soldier record that are used to assign a new soldier. ACTIVE SERV 6 Basic Active Service Date charact ARRIVE DATE Date Arrived at Post charact 6 2 Additional Skill Identifier ASI charact BATTLE POS charact 4 Position in Wartime BONUS MOS 3 Reenlistment Bonus MOS charact CITIZEN charact Citizenship Status 1 CIV EDUC charact 10 Civilian Education charact COMBAT AREA 10 Area of Last Combat Tour CUR PROMO DT charact 4 Current Promotion Date 2 CUR PROMO PT integer Current Promotion Pts DAST charact 2 Duty Additional Skill Identifier DATE LOSS Anticipated Date of Loss charact 6 DAYS LEAVE 2 Number of Days Leave integer DEPART DATE 6 Actual Date of Departure charact Number of Dependents DEPENDENTS integer 1 DMOS 5 charact Duty MOS DOB 6 Date of Birth charact DOR charact 6 Date of Rank ETHNIC 5 Ethnic Group Designator charact ETS DATE 6 Expiration Term of Service charact FORGN SERV Area of Last Foreign Service charact 10 GRADE charact 2 Pay Grade GT SCORE integer 2 General Technical Aptitude Score LANG 2 charact Language Identifier LAST_COMBAT Year and Month - Last Combat charact 6 LASTER 6 Year and Month - Last Efficiency Rating charact MARITAL Marital Status charact 1 MEALCARD 4 Mealcard Number integer MEALCARD DT charact 6 Date Mealcard Issued NCO Graduate/Military Education Level MIL EDUC charact 10 MOS 5 Military Occupational Specialty Code charact MPC Military Personnel Class charact 1 NAME Individual Soldier's Name charact 27 OJT DT Year and Month of OJT Completion charact 6 - 4 PAYROLL NO integer PAY ENTRY charact 6 Pay Entry Basic Date (PEBD) PHOTO SUSP charact 6 Year and Month of Photograph Suspense PHYS CATEG charact 1 Physical Category Code POSITION

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4 Duty Position

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Table/Field Type Size Table/Field Contents PROMO_IND Promotion Indicator charact 1 PULHES charact 6 Physical Profile RACE charact 1 Race RANK 4 Rank charact 9 Name of first EER or OER rater RATER1 charact RATER2 charact 9 Name of second EER or OER rater S RATER3 9 Name of third EER or OER rater charact 🔀 RATER DATE 6 Effective Date of Rating charact REG BR 2 Regimental Branch charact REG_HOME charact 10 Regimental Home N, 4 Regimental Number REG NO charact RELIGION charact 10 Religion REPORT DATE 6 Date Assigned to this Unit charact RET OS charact 6 Date Returned from Overseas SASI 2 Secondary Additional Skill Identifier charact SCTY CLNC 10 Security Clearance charact SCTY STATUS 12 Status of Security Clearance charact SEX 1 Sex charact SMOS charact 5 Secondary MOS r SSN charact 9 Social Security Number 1 Term of Service TERM SERV integer 2 TACFIRE Badge Number TF BADGE integer 5 Unit Processing Code (UIC) UPC charact VERIF_DT charact 6 Year Verified Secondary MOS VERIF SMOS charact 1 Verification Indicator for Secondary MOS ATTACHED Contains fields in soldier table needed if he is attached. ARRIVE DATE charact 6 Date Arrived at Post ASI charact 2 Additional Skill Identifier BATTLE_POS charact 4 Position in Wartime 2 Duty Additional Skill Identifier DASI charact 6 Actual Date of Departure DEPART DATE charact 5 Duty MOS DMOS charact DOB charact 6 Date of Birth DOR charact 6 Date of Rank 2 Pay Grade GRADE charact 4 Mealcard Number · MEALCARD integer 6 Date Mealcard Issued MEALCARD DT charact MOS 5 Military Occupational Specialty Code charact

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Table/Field	Туре	Size	Table/Field Contents
MPC	charact	1	Military Personnel Class
NAME	charact	21	Individual Soldier's Name
POSITION	charact	4	Duty Position
RANK	charact	4	Kank
SEX	charact	1	Sex
SSN	charact	9	Social Security Number
TF_BADGE	integer	2	TACFIRE Badge Number
UPC	charact	5	Unit Processing Code (UIC)
BATTERYCODES			Translation of battery mnemonics to UPC and UIC codes.
BATTERY	oharaot	3	Codes are A B C SVC or HHB
BATTERYSEA	integer	2	Sorting order: $HHB-1 A-2 B-3 C-4 SVC-5$
DOCSED	inceger	ے 1	SOLUTUR GODES: HUD-1'W-5'D+2'C-4'240-2'
DODAAC	text	6	Conversion to DODALC code used by Logistics
IDC	oberect	5	Conversion to UPC used by SIDPERS
0.0		2	
BNPERSONN			Temporary table used by report Bn_personnel.
ARRIVE DATE	charact	6	Date Arrived at Post
ATTCH	charact	1	Attached/Detached Status Flag
CNT ATTCH	integer	2	Attached Flag.
CURR STATUS	text	11	Daily Personnel Status
DOR	charact	6	Date Of Rank
ENLIST	integer	2	Enlisted Flag
GRADE	charact	2	Pav Grade
LIC CLASS	charact	<u>ц</u>	Drivers Licence Class
MEALCARD	charact	8	Mealcard Number
MEALCARD DT	charact	6	Date Mealcard Issued
MOS	charact	5	Military Nonunational Specialty Code
MPC	charact	1	Military Personnel Class
NAME	charact	27	Soldiarte Nama
OFF		2	Officer Flag
VI 1			
SCTY CINC	Threat	2	Security Cleanance
SCTY_CLNC	charact	2	Security Clearance
SCTY_CLNC SEP_RATIONS	charact charact	2	Security Clearance Separate Rations Flag
SCTY_CLNC SEP_RATIONS SSN	charact charact charact	2190	Security Clearance Separate Rations Flag Social Security Number
SCTY_CLNC SEP_RATIONS SSN SSN	charact charact charact text	2 1 9	Security Clearance Separate Rations Flag Social Security Number Social Security Number

ĺ PERSONNEL APPLICATION DETAILED TABLE DICTIONARY Table/Field Type Size Table/Field Contents R. UPC charact 5 Unit Processing Code (UIC) WARRANT 2 Warrant Officer Flag integer CIVEDCODES Civilian education codes. CODE SIDPERS Code charact 1 charact 10 Description CLEARANCE Contains codes for security clearances. CODE SIDPERS code charact 1 TEXT charact 12 Description CONDITIONS Contains conditions for special condition roster and their deployability. COMMENT 20 charact CONDITION charact 15 Condition or Pending Unfavorable Action . DEPLOY charact 1 Deployability Status p L DAILYRPT Temporary table used in generating Daily Status Report. See DAILYSTAT.RW for explanation of fields. CATEGORY 20 charact CATSEQ charact 1 MPC MPC charact 1 2 integer NUM 2 integer STATSEQ 2 integer STATUS 12 charact TOTBREAK 2 integer 8 B-5

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Table/Field	Туре	Size	Table/Field Contents
DAILYSTATUS			Temporary table used by report Daily_status.
CATEGORY	charact	20	Category of status (major heading)
CATSEQ	charact	1	Sequence of category
MPC	charact	1	Military Personnel Class
MPCSEQ	integer	2	Sequence of mpc (O, W, E)
NUM	integer	2	Count of soldiers with this status
STATSEQ	integer	2	Sequence of this status
STATUS	charact	12	Current personnel status
TOTBREAK	integer	2	Flag for total break in report
DRIVERS			This table identifies drivers and the types of licenses they hold.
BUMPER	charact	10	Bumper number of the vehicle he drives
DRIV_POS	charact	10	Assistant or primary driver
LIC_CLASS	charact	10	Type of vehicle: JEEP, 5 TON, 2 1/2 TON, GOAT, TMP
LIC_NO	charact	10	License number
NAME	charact	27	Individual Soldier's Name
SSN	text	9	Social Security Number
STATUS_DATE	charact	6	Date of training status
TRAIN_STATUS	charact	5	Training status
UPC	charact	5	Unit Processing Code (UIC)
DRIVSSNX			Index on table "drivers".
SSN	text	9	Social Security Number
TIDP	integer	4	
GRADES			This table cross-references grade with rank.
GRADE	charact	2	Pay Grade
RANK	charact	4	Rank

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•	Table/Field	Туре	Size	Table/Field Contents
	GTRPT			Temporary table used to generate GT score report. See GTRPT.RW for an explanation of these fields.
	ETS_DATE GRADE GT_SCORE NAME PAY_ENTRY RANK SSN UPC	charact charact integer charact charact charact text charact	6 2 27 6 4 9 5	Social Security Number
3	MILEDCODES			Military education codes.
	CODE TEXT	charact charact	1 10	SIDPERS code Description
S.	MOS			Current MOS codes available in the battalion. Temporary table.
	MOS TITLE	text text	5 50	Military Occupational Specialty Code
ų	MPCCODES			This table assigns a non-alphabetic sort sequence to military position codes.
	MPC MPCNAME MPCSEQ	charact charact integer	1 8 2	Military Position Code Officer, Warrant or Enlisted
	OMPOSX			Index on OMTOE for position
	POS TIDP	charact integer	4 4	SIDPERS Position Code
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Table/Field	Туре	Size	Table/Field Contents
OMTOE			Personnel portion of the Modification Table of Organization and Equipment
ACQ	charact	1	Fourth character of rank field
ASI	charact	2	Additional Skill Identifier
AUTH	float	4	Number of personnel authorized for this position
BRANCH	charact	2	Branch of Service
GRADE	charact	2	Pay Grade
LIC	charact	2	
LINE	integer	2	Line number for this position
MOS	charact	5	Military Occupational Specialty Code
PARA	integer	2	Paragraph number for this section
POS	charact	4	SIDPERS position code
POS_TITLE	charact	24	Title of this position
RANK	charact	3	Rank
RMKS	charact	5	Remarks (coded)
RQD	float	4	Required number of personnel for this position
SUBLINE	integer	1	Sequence number for positions within a line number
UNIT	charact	10	Unit name from OMTOE table
UPC	charact	5	Unit Processing Code (UIC)
PERSONAL	_		Contains those fields in the soldier record of a personal nature
CITIZEN	charact	1	Citizenship Status
DEPENDENTS	charact	1	Number of Dependents
DOB	charact	6	Date of Birth
ETHNIC	charact	5	Ethnic Group Designator
MARITAL	charact	10	Marital Status
MPC	charact	1	Military Personnel Class
NAME	charact	27	Individual Soldier's Name
RACE	charact	1	Race
RELIGION	charact	5	Religion
SEX	charact	1	Sex
SSN	charact	9	Social Security Number

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Table/Field Type Size Table/Field Contents PRP Personnel Reliability Program data. COMPL_3180 Date DA form 3180 was completed date 12 CUST charact 1 Custodian (Y or N) 61 C INIT SCORE integer Custodian initial test score 1 INIT TEST 12 Custodian initial test date date C SEMI SCORE integer 1 Custodian semi-annual test score 65 C SEMI TEST Custodian semi-annual test date date 12 ED EVAC date 12 Emergency Destruction and Evacuation (date) INIT_3180 date 12 Date DA form 3180 was initiated INIT SCORE integer 1 Score from Initial test INIT TEST date 12 Date of initial test INIT TRNG date 12 Date of initial training NAME 27 Individual Soldier's Name charact POS 4 CRIT or CONT (Critical or Controlled) charact QTRLY TRNG date 12 Date of last quarterly refresher training RQD READ BEG date 12 Date that required reading was begun RQD READ END date 12 Date that required reading was finished SAS TEAM charact 5 Sealed Authentication system team (BTRY) SEMI RETEST date 12 Date of last semi-annual retest SEMI SCORE integer 1 Score from last semi-annual retest SIDE charact 4 Red or blue side in SAS team SSN 9 Social Security Number text ŀ QUALS Contains those fields in the soldier record that relate to his qualifications. ASI 2 Additional Skill Identifier charact BONUS MOS charact 6 Reenlistment Bonus MOS CIV EDUC Civilian Education charact 1 CUR PROMO DT charact 10 Current Promotion Date Current Promotion Pts CUR PROMO PT charact Ш DASI DMOS DASI charact 5 Duty Additional Skill Identifier charact 10 Duty MOS DOR Date of Rank charact 6 Ch. GRADE Pay Grade charact 2 GT SCORE 6 General Technical Aptitude Score charact LANG charact 2 Language Identifier MIL EDUC charact 10 NCO Graduate/Military Education Level MOS charact 5 Military Occupational Specialty Code . NAME charact 27 Individual Soldier's Name

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Table/Field	Туре	Size	Table/Field Contents
OJT DT	charact	6	Year and Month of OJT Completion
PHYS CATEG	charact	1	Physical Category Code
PROMO IND	integer	2	Promotion Indicator
PULHES	charact	6	Physical Profile
RANK	charact	4	Rank
SASI	charact	5	Secondary Additional Skill Identifier
SCTY CLNC	charact	10	Security Clearance
SCTY STATUS	charact	12	Status of Security Clearance
SMOS	charact	10	Secondary MOS
SSN	charact	9	Social Security Number
VERIF DT	charact	1	Year Verified Secondary MOS
VERIF SMOS	charact	2	Verification Indicator for Secondary MOS
· • · · · •		-	
RELIGION			Religious preference codes.
CODE	charact	2	SIDPERS code
NAME	charact	26	Individual Soldier's Name
SCTYSTATS			Contains the codes for security clearance investigation status
CODE	charact	1	SIDPERS code
TEXT	charact	20	Description
SEPRATS			Temporary table used in "canned query" for separate rations
BATTERY	charact	3	A,B,C,HHB,SVC
CARD_DT	charact	6	Date of mealcard
GRADE	charact	2	Pay Grade
MEALCARD	charact	8	Mealcard Number
NAME	charact	27	Individual Soldier's Name
PLAN	text	10	Planned personnel status
POS	charact	4	SIDPERS position code
POS TITLE	text	20	Position title
SSN	text	9	Social Security Number
STATUS	text	10	Current personnel status
INTT	tovt	10	Unit name from OMTOF table

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	Table/Field	Туре	Size	Table/Field Contents
	SERVICE			Contains those fields in the soldier record that relate to the service as a whol
	ACTIVE SERV	charact	6	Basic Active Service Date
	COMBAT AREA	charact	6	Area of Last Combat Tour
	DAYS LEAVE	charact	4	Number of Days Leave
	ETS DATE	charact	1	Expiration Term of Service
	FORGN SERV	charact	2	Area of Last Foreign Service
	LAST COMBAT	charact	6	Year and Month - Last Combat
×	LASTER	charact	6	Year and Month - Last Efficiency Rating
N,	NAME	charact	27	Individual Soldier's Name
	PAY ENTRY	charact	6	Pay Entry Basic Date (PEBD)
	PHOTO SUSP	charact	6	Year and Month of Photograph Suspense
-	RATER 1	charact	6	Name of first EER or OER rater
Ľ	RATER2	charact	9	Name of second EER or OER rater
	RATER3	charact	9	Name of third EER or OER rater
ι,	RATER DATE	charact	9	Effective Date of Rating
	RET OS	integer	1	Date Returned from Overseas
	SSN	charact	9	Social Security Number
97 1	TERM_SERV	charact	6	Term of Service
	SIDPERS			Contains all the fields exactly as they are on the SIDPERS SPF file.
	ACTIVE SERV	charact	6	Basic Active Service Date
	AEA	charact	1	
	AEA TERM	charact	6	
	ARRIVE DATE1	charact	6	
• :	ARRIVE DATE2	charact	6	
	ASI	charact	2	Additional Skill Identifier
	ASSGN	charact	1	
	ATTCH	charact	1	Flag to indicate attached or detached status
	AWOL	charact	1	
	BONUS DT	charact	6	
	BONUS MOS	charact	3	Reenlistment Bonus MOS
×.	CITIZEN	charact	ĩ	Citizenship Status
	CIV EDUC	charact	1	Civilian Education
غيصا	CMD DEP	integer	1	
-	COMBAT AREA	charact	1	Area of Last Combat Tour
	CONUS PREF	charact	2	
	CUR PROMO DT	charact	4	Current Promotion Date

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Table/Field	Туре	Size	Table/Field Contents
CUR PROMO PT	integer	2	Current Promotion Pts
DASI	charact	2	Duty Additional Skill Identifier
DATE LOSS	charact	6	Anticipated Date of Loss
DELAY SEP	charact	1	•
DELCODE	charact	1	
DEPART DATE1	charact	6	
DEPART DATE2	charact	6	
DEPENDENTS	integer	1	Number of Dependents
DMOS	charact	5	Duty MOS
DOB	charact	6	Date of Birth
DOR	charact	6	Date of Rank
DUAL SERV GR	charact	4	
DUAL_SERV_ST	charact	1	
DUTY_DATE	charact	6	
DUTY_LANG	charact	2	
DUTY_STATUS	charact	3	
EER_SEER	charact	1	
ELIG_FHA	charact	1	
ELIG_MEDAL	charact	6	
ELIG_REEN	charact	2	
ELIG_RET_OS	charact	6	
ENLIST_BONUS	charact	1	
ETHNIC	charact	1	Ethnic Group Designator
ETS_DATE	charact	6	Expiration Term of Service
FORGN_SERV	charact	1	Area of Last Foreign Service
GOOD_CONDUCT	charact	6	
GRADE	charact	4	Pay Grade
GTA_SCORE	integer	2	
INCENT_PAY1	charact	5	
INCENT_PAY2	charact	5	
LANGT	charact	2	
LANG2	charact	2	
LAST_COMBAT	charact	Ő	Year and Month - Last Combat
LAST_ER	charact	0	lear and Month - Last Efficiency Rating
LAST_PCS	cnaract	0	
LAST_PERS_DT	cnaract	b	
LAST_PERS_TP	cnaract	4	
LAST_XAUT_DT	cnaract	0	
LAST_XACT_TP	cnaract	4	
LEAVEI	integer	2	
LEAVE2	integer	2	
LUCAL	cnaract	40	

Table/Field Type Size Table/Field Contents MARITAL charact 1 Marital Status MIL EDUC charact 1 NCO Graduate/Military Education Level MOS charact 5 Military Occupational Specialty Code MOVE DESIG1 2 charact $\left(\cdot \right)$ MOVE DESIG2 2 charact MPC charact 1 Military Personnel Class NAME charact Individual Soldier's Name 27 NON CMD DEP integer 1 OJT DT 6 Year and Month of OJT Completion charact Ę. OS PREF1 charact 2 OS PREF2 charact 2 1 OS PREF3 2 charact PAY ENTRY charact 6 Pay Entry Basic Date (PEBD) PERCENTILE 1 integer PGM PROCURE charact 2 PHOTO SUSP 6 Year and Month of Photograph Suspense charact PHYS CATEG charact 1 Physical Category Code POSITION1 4 charact 4 POSITION2 charact POTNTL_UPC1 5 charact POTNTL UPC2 5 charact PRE PROMO DT charact 4 PRE PROMO PT integer 2 PRIV DISPUTE charact Privacy Dispute Flag 1 PROFIC PAY charact 1 PROMO IND charact 1 Promotion Indicator PROMO MOS charact 4 DULHES charact 6 Physical Profile RACE charact 1 Race REG_BR 2 charact Regimental Branch charact 2 Regimental Home 4 REG NO charact Regimental Number RELIGION charact 2 Religion -REPORT DATE1 charact 6 37 \sim REPORT DATE2 charact 6 RET OS charact 6 Date Returned from Overseas RSC SASI charact 1 charact 2 Secondary Additional Skill Identifier SCTY CLNC charact 1 Security Clearance ._ SCTY_STATUS Status of Security Clearance charact 1 SEP PGM 3 charact SERVICE COMP charact 1

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Table/Field	Туре	Size	Table/Field Contents
	ohoroot		Sou
SMOS	charact	5	Sex Secondary MOS
SPEC DAV1	charact	5	Secondary Mos
SPEC PAVO	charact	5	
SOT CODE	charact	1	
SOT DT1	charact	6	
SQT_DT7	charact	6	
SOT MOS	charact	Ц	
SOT SCOPE	integer	2	Skill Auglification Tost Soona
SSN SCORE	tovt	ā	Social Security Number
SUSP FAVOR	oharaot	1	Social Security number
TDY 1	integer	2	
	integer	2	
TERM SERV	charact	1	Term of Service
INTIMAT UPC1	charact	5	let m of pet ATCC
UPC1	charact	5	
UPC2	charact	5	
VERIF DT	charact	6	Year Verified Secondary MOS
VERIF SMOS	charact	1	Verification Indicator for Secondary MOS
VSSSN	charact	1	
GUTI I TNUTDY			Tomorowy table used by the second Skill instan
SVIFFINALVI			Temporary table used by the report Skill_Invtry.
ASGD	integer	2	Count of assigned personnel for this grade and MOS
AUTH	float	4	Count of authorized for this grade and MOS
GRADE	charact	2	Pay Grade
MOS	charact	5	Military Occupational Specialty Code
RQD	float	4	Count of required for this grade and MOS
SEQNO	integer	2	Flag for break in report
SOLDIER			Individual soldier record.
ACTIVE SERV	charact	6	Basic Active Service Date
ARRIVE DATE	charact	6	Date Arrived at Post
ASI	charact	2	Additional Skill Identifier
ATTCH	charact	1	Flag to indicate attached or detached status
BATTLE POS	charact	4	Position in Wartime
BONUS DATE	charact	6	Date bonus awarded
BONUS MOS	charact	3	Reenlistment Bonus MOS
CITIZEN	charact	6	Citizenship Status

Table/Field Type Size Table/Field Contents CIV_EDUC 10 Civilian Education charact COMBAT AREA charact 10 Area of Last Combat Tour CUR PROMO DT charact Ц Current Promotion Date 2 Current Promotion Pts CUR PROMO PT integer TASI 2 Duty Additional Skill Identifier charact 6 DATE LOSS charact Anticipated Date of Loss Ц - DAYS LEAVE float Number of Days Leave DEPART DATE 6 Actual Date of Departure charact DEPENDENTS integer 1 Number of Dependents DMOS 5 Duty MOS charact DOB charact 6 Date of Birth DOR charact 6 Date of Rank ETHNIC 5 Ethnic Group Designator charact 🐃 ets_date Expiration Term of Service 6 charact FORGN_SERV 10 Area of Last Foreign Service charact GRADE 2 Pav Grade charact GT SCORE General Technical Aptitude Score integer 2 HOR charact 15 Home of record INCENT PAY charact 5 Incentive Pay for Special Duty 🗠 LANG charact 10 Language Identifier Year and Month - Last Combat LAST COMBAT 6 charact LAST ER Year and Month - Last Efficiency Rating 6 charact MARITAL Marital Status charact 1 MEALCARD charact 8 Mealcard Number MEALCARD DT charact 6 Date Mealcard Issued MIL EDUC 10 NCO Graduate/Military Education Level charact MOS charact 5 Military Occupational Specialty Code MPC 1 Military Personnel Class charact 27 Individual Soldier's Name NAME charact NEWUPC charact 5 UPC of receiving unit if soldier is detached OJT DT charact 6 Year and Month of OJT Completion OLDUPC charact 5 UPC of sending unit if soldier is attached ORGANIC charact 1 Indicator if soldier is an SD gain PAY_ENTRY Pay Entry Basic Date (PEBD) charact 6 PHOTO SUSP 6 Year and Month of Photograph Suspense charact PHYS CATEG charact 1 Physical Category Code ROSITION charact 4 Duty Position 🏠 PRIV DISPUTE charact Indicator that there was a privacy dispute 1 PROMO IND charact 1 Promotion Indicator PULHES 6 Physical Profile charact RACE Race charact 1 RANK Ш Rank charact

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Table/Field Type Size Table/Field Contents

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RATER1	charact	16	Name of first EER or OER rater
RATER2	charact	16	Name of second EER or OER rater
RATER3	charact	16	Name of third EER or OER rater
RATER DATE	charact	6	Effective Date of Rating
REG BR	charact	2	Regimental Branch
REG HOME	charact	10	Regimental Home
REGNO	charact	4	Regimental Number
RELIGION	charact	26	Religion
REPORT DATE	charact	6	Date Assigned to this Unit
RET OS	charact	6	Date Returned from Overseas
SASĪ	charact	2	Secondary Additional Skill Identifier
SCTY CLNC	charact	2	Security Clearance
SCTY STATUS	charact	4	Status of Security Clearance
SEP RATIONS	charact	1	Flag to indicate separate rations
SEX	charact	1	Sex
SMOS	charact	5	Secondary MOS
SPEC PAY	charact	5	Pay for special duty
SQT DATE	charact	6	Date of SQT test
SQT_SCORE	integer	2	Skill Qualification Test Score
SSN	text	9	Social Security Number
SUSP_FAVOR	charact	1	Suspension of favorable action flag
TERM_SERV	integer	1	Term of Service
TF_BADGE	charact	5	TACFIRE Badge Number
UNIT	charact	10	Unit name from OMTOE table
UPC	charact	5	Unit Processing Code (UIC)
VERIF_DT	charact	6	Year Verified Secondary MOS
VERIF	charact	1	Verification Indicator for Secondary MOS
-			
SOLDIERDD			Dictionary for the fields in the SOLDIER table.
DNBEDGONN		•	Elec to indicate field is in Pottolion Doston nonort
BNF LADUNN DATI VSTATUS	charact	11	Flag to indicate field is in Daily Status report
DAILISIAIUS	charact	11	President of field
DESC	charact	10	Nege of form that contains this field
r urm Name	charact	12	Name of form that contains this field Individual Saldian's Name
NAME Sviii i tnu	charact	12	Ling to indicate field is in Chill inventory recent
JAILLINV UNTTWAN	cnaract	0	Flag to indicate field is in Unit Morning report
UNIIMAN	cnaract		riag to indicate field is in unit manning report

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	Table/Field	Туре	Size	Table/Field Contents
	SONAMEX			Index on table "soldier".
	NAME TIDP	charact integer	27 4	Individual Soldier's Name
Ľ.	SOPOSX			Index on position in the table "soldier"
	POSITION TIDP	charact integer	4 4	Duty Position
	SORTMPC			Assigns non-alpha sort code to Military Position Codes - 0,W,E .
8	NAME SEQUENCE VALUE	charact integer charact	8 2 1	
	SOSSNX			Index on ssn for the table "soldier"
	SSN TIDP	text integer	9 4	Social Security Number
5	SPECIAL			Contains soldiers with special or derrogatory conditions
	COMMENT CONDITION DATE NAME SSN	charact charact charact charact text	20 15 6 27 9	Additional comments Special condition or pending unfavorable action Date that special condition took effect Individual Soldier's Name Social Security Number
	STATCODES			Personnel status codes
	CATEGORY CATSEQ DEPLOY STATSEQ	charact charact charact integer	20 1 1 2	Category of status (major heading) Sequence of category Deployability of this status Sequence of this status on report
3				
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Table/Field	Туре	Size	Table/Field Contents
STATUS	charact	12	Daily Personnel Status code
STATSSNX			Index on ssn for the table "status"
SSN TIDP	text integer	9 4	Social Security Number
STATUS			Daily status of each soldier.
ACTUAL_BEGIN ACTUAL_END CURR_STATUS LOCATION MPC NAME PLAN_BEGIN PLAN_END PLAN_STATUS REASON SSN UPC	date date charact charact charact date date charact charact text charact	12 12 11 10 1 27 12 12 11 15 9 5	Beginning date of current status End date of current status Current status Location of soldier if absent from duty Military Personnel Class Individual Soldier's Name Begin date for planned status End date for planned status Place to enter a future status when it is known in advance If applicable, reason soldier has a particular status Social Security Number Unit Processing Code (UIC)
TRANSIENT			Codes for transient personnel used primarily by report Unit_manning.
POS POS_TITLE	charact charact	5 20	SIDPERS position code Title of position
UMR			Temporary table used by report unit_manning.
ARRIVE_DATE ASI AUTH_GRADE AUTH_MOS BATTERY BATTERYSEQ DEPART_DATE	text charact charact charact charact integer text	6 2 5 3 2 6	Date Arrived at Post Additional Skill Identifier Authorized grade Authorized MOS Battery name Sort sequence for battery Actual Date of Departure

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Table/Field Type Size Table/Field Contents DEPLOY 1 Deployability of this individual text DMOS charact 5 Duty MOS ENLIST ASG 2 integer Flag to indicate enlisted and assigned ENLIST_AUT integer 2 Flag to indicate enlisted and authorized C. ETS DATE 6 Expiration Term of Service text GRADE charact 2 Pay Grade LOSS_DATE Expected date of loss text 6 charact 5 Military Occupational Specialty Code MPC charact 1 Military Personnel Class NAME charact 27 Individual Soldier's Name 2 Flag to indicate officer and assigned OFFICER ASG integer OFFICER AUT 2 Flag to indicate officer and authorized integer 4 POS charact SIDPERS position code POS FILLED integer 2 Flag to indicate if position is assigned POS_TITLE charact 24 Title for this position RANK DATE text 6 Date of rank K. REPORT_DATE 6 Date Assigned to this Unit text SCTY CLNC 2 Security Clearance charact SMOS charact 5 Secondary MOS ST SSN 9 Social Security Number charact SSN text 9 Social Security Number STATUS text 3 Daily personnel status STATUS text 11 Daily personnel status UNITSEQ 2 Sequence number of unit integer 1 UNIT_NAME 30 Name of section charact UPC 5 Unit Processing Code (UIC) charact WARRANT ASG 2 Flag to indicate warrant and assigned integer WARRANT AUT integer 2 Flag to indicate warrant and authorized UNITDATA Contains those fields in the soldier record relating to his current unit. 😤 ARRIVE_DATE Date Arrived at Post charact 6 A BATTLE POS 4 Position in Wartime charact DATE LOSS charact 6 Anticipated Date of Loss S DEPART DATE charact 5 Actual Date of Departure MEALCARD 4 Mealcard Number integer 4 Date Mealcard Issued MEALCARD DT integer Vr. NAME 27 Individual Soldier's Name charact PAYROLL NO integer 2 POSITION charact 6 Duty Position

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Table/Field	Туре	Size	Table/Field Contents
REG_BR REG_HOME REG_NO REPORT_DATE SSN TF_BADGE UPC	charact charact integer charact charact charact charact	4 2 2 6 9 6 5	Regimental Branch Regimental Home Regimental Number Date Assigned to this Unit Social Security Number TACFIRE Badge Number Unit Processing Code (UIC)
UNITS			Unit names down to the section level
CDR_POS NAME PARA PARENT SUBUNIT	charact charact integer charact charact	1 30 2 10 2	commander's position - unused Individual Soldier's Name Paragraph of unit from MTO&E Unit name of next echelon up First two characters of SIDPERS position code - unused
UNIT UNITCODE UPC	charact charact charact	10 8 5	Unit name from OMTOE table Unit Processing Code (UIC)

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<u>(</u>	Table/Field	Туре	Size	Table/Field Contents
رس ت ^ی ا	ARTEP			ARTEP codes and titles.
Ę.	ARTEP TITLE	text text	7 50	ARTEP category of training.
	EVENT			Time, location, subject and participants of scheduled training events.
7	ARTEP	text	7	ARTEP category of training.
1	BATTERY	text	3	Battery - HHB, A, B, C, SVC.
	BEGIN DATE	date	12	Beginning date of training event.
22	BEGINTIME	text	4	Beginning time of training event in 24 hour format -
20	_			i.e., 1430.
-	COMMENTS	text	210	Special conditions of note.
· -	DESCRIPTION	text	50	Brief summary.
1	END_DATE	date	12	Ending date of a training event. Currently not used.
	END_TIME	text	4	Ending time of a training event in 24 hour format - i.e., 1430.
	EVENT	text	14	Event identification code indicating type of training, scheduler and sequence.
<u>6</u>	INSTRUCTOR	text	30	Instructor(s) of tasks to be trained. Either name or position is used.
	LOCATION	text	20	Building number or area name.
•	PARTICIPANTS	text	20	Brief indication of level of participation - i.e. ALL, BTY(-), SEL PERS.
R	REFS	text	12	Reference document number from which training guidelines were obtained.
53	SCHEDULER	text	12	INGRES username of individual who added the event to the schedule.
R	STATUS	text	6	Codes reflecting updates to the authorized schedule - ADDED, CANCEL, RESCHD.
5	SUBEVENT	text	1	Alpha character indicating an event attached to a "main" event.
	TYPE	text	20	Type of training - i.e., PE (Practical Excercise), Lecture.
1	UNIFORM	text	12	Type of uniform to be worn - i.e FIELD, DUTY, PT.

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Table/Field	Туре	Size	Table/Field Contents
EVENTSOLDIER			Identifies individual soldiers to be trained in a scheduled training event.
EVENT	text	20	Event identification code indicating type of training, scheduler and sequence.
MOS	text	5	Military Occupational Specialty Code.
NAME	tert	27	
SSN	text		Social Security Number.
TASK	text	12	Task Code.
UNIT	text	10	Unit name from OMTOE table.
EVENTSUMMARY			This view is used by report Event.
ARTEP	text	7	ARTFP category of training
BATTERY	text	י ז	Battery Code - HHB. A. B. C. SVC.
BEGIN DATE	date	12	Beginning date of training event.
BEGIN TIME	text	5	Beginning time of training event in 24 hour format -
			i.e. 1430.
COMMENTS	text	210	Special conditions of note.
DESCRIPTION	text	40	Brief summary.
END DATE	date	12	Ending date of a training event. Currently not used.
ENDTIME	text	5	Ending time of a training event in 24 hour format - i.e., 1430.
EVENT	text	20	Event identification code indicating type of training, scheduler and sequence.
INSTRUCTOR	text	30	Instructor(s) of tasks to be trained. Either name or position is used.
LOCATION	text	20	Building number or area name.
MISSION	text	8	Mission Code.
PARTICIPANTS	text	20	Brief indication of level of participation - i.e. ALL. BTY(-). SEL PERS.
REFS	text	12	Reference document number from which training guidelines were obtained.
TASK	text	12	Task Code.
TITLE	text	120	
TYPE	text	20	Type of training - i.e., PE (Practical Excercise).
			Lecture.
UNIFORM	text	12	Type of uniform to be worn - i.e FIELD, DUTY, PT.
UNIT	text	10	Unit name from OMTOE table.

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Table/Field	Туре	Size	Table/Field Contents
EVENTTASK			This table identifies the tasks to be trained in a scheduled training event.
ARTEP	text	7	ARTEP category of training.
EVENT	text	20	Event identification code indicating type of training, scheduler and sequence.
MISSION	text	8	Mission Code.
TASK	text	12	Task Code.
UNIT	text	10	Unit name from OMTOE table.
EVENTUNIT			This table identifies the units participating in a
			scheduled training event.
EVENT	text	20	Event identification code indicating type of
			training, scheduler and sequence.
TASK	text	12	Task Code.
UNIT	text	10	Unit name from OMTOE table.
UNITCODE	text	8	Unique identifier for unit .
MISSION			Missions for which units must be trained.
ARTEP	text	7	ARTEP category of training.
MISSION	text	8	Mission Code.
TITLE	text	50	
UNIT	text	11	Unit name from OMTOE table.
WEIGHT	integer	2	Scaling factor indicating importance of mission.
MOSSCORE			This view is used by the MOS Score Reports.
DATE	date	12	
EVENT	text	20	Event identification code indicating type of
			training, scheduler and sequence.
FAIL	integer	2	Number of fails recorded for a given task.
MOS	text	8	Military Occupational Specialty Code.
NOTEVAL	integer	2	Number of not Evaluateds for a task.
PASS	integer	2	Number of passes recorded for a task.
SSN	text	9	Social Security Number.
TASK	text	12	Task Code.

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Table/Field	Туре	Size	Table/Field Contents
UPC	charact	5	Unit position code.
MOSSCORE2			View used by report Mosscore2.
DATE	date	12	4724624332232237928888877443228888293832979742282229
EVENT	text	20	Event identification code indicating type of training, scheduler and sequence.
FAIL	integer	2	Number of fails recorded for a task.
MOS	text	8	Military Occupational Specialty Code.
NOTEVAL	integer	2	Number of not Evaluateds recorded for a task.
PASS	integer	2	Number of passes recorded for a task.
SSN	text	9	Social Security Number.
TASK	text	12	Task Code.
UNIT	charact	10	Unit name from OMTOE table.
UPC	charact	5	Unit position code.
PTQUALV			View of table TTPTQUAL which automatically calculates pass/fail using score data
		-	######################################
AGE	float	8	
BATTERY	charact	3	Battery Code - HHB, A, B, C, SVC.
CONDITION	charact	6	
DATE	date	12	
HEIGHT	float	4	
NAME	charact	21	• • • • • •
NEXIDI	date	12	Date of next test.
rr Duguude Dre	text	(
PUSHUPS_PIS	integer	2	
RAW PUSHUPS	Integer	2	
PAW STTILDS	integer	2	
RAW_SITOPS	Inceger	25	
RUN PTS	integer	2)	
STTUPS PTS	integer	2	
SSN	charact	0	Social Security Number
TEMP	integer	2	COLAT CECUITLY NUMBER.
TOT PTS	integer	2	
UNIT	charact	10	linit name from OMTOF table
WEIGHT	integer	2	anta vame tiam allas adate"

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R	Table/Field	Туре	Size	Table/Field Contents
	SCHEDULE2			Temporary table used by report Schedule2, the detailed training schedule.
	ARTEP	text	7	ARTEP category of training.
2	BATTERY	text	3	Battery Code - HHB, A, B, C, SVC.
	BEGIN DATE	date	12	Beginning date of training event.
	BEGINTIME	text	4	Beginning time of training event in 24 hour format - i.e., 1430.
	COMMENTS	text	210	Special conditions of note.
	DESCRIPTION	text	50	Brief summary.
	END_DATE	date	12	Ending date of a training event. Currently not used.
	END_TIME	text	4	Ending time of a training event in 24 hour format - i.e., 1430.
	EVENT	text	14	Event identification code indicating type of
₽.	INSTRUCTOR	text	30	Instructor(s) of tasks to be trained. Either name or
	10010700			position is used.
	LUCATION	text	20	Building number or area name.
	PARTICIPANIS	text	20	Brief indication of level of participation - 1.e.
	2000	1 1		ALL, BII(-), SEL PERS.
	REF S	text	12	Kererence document number from which training
	SCUEDIII ED	++	10	guidelines were obtained.
, -	SCHEDULER	text	14	INGRES USERname of Individual who added the event to
	STATUS	text	6	Codes reflecting updates to the authorized schedule - ADDED. CANCEL. RESCHD.
	SUBEVENT	text	1	Alpha character indicating an event attached to a "main" event.
	TASK	text	12	Task Code.
	TYPE	text	20	Type of training - i.e., PE (Practical Excercise), Lecture.
-	UNIFORM	text	12	Type of uniform to be worn - i.e FIELD, DUTY, PT.
F.				
t:	SCHEDULER			Initials of training event scheduler and count of events scheduled.
R				
	TD	text	3	Initials of training event scheduler.
	SEQ	integer	2	Number of events created by this scheduler used to
H	SSN	text	9	maintain a sequence counter. Social Security Number.

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Table/Field	Туре	Size	Table/Field Contents
SOLDIERSCORE			Common skills and MOS training scores.
DATE Event	date text	12 20	Date training occurred. Event identification code indicating type of training. scheduler and sequence.
MOS	text	8	Military Occupational Specialty Code.
SSN	text	9	Social Security Number.
STATUS	text	1	P=Pass, F=Fail, N=Not Evaluated.
TASK	text	12	Task Code.
TASK			Code and title of all tasks, collective and individual.
ARTEP	text	7	ARTEP category of training.
COMMENTS	text	200	Special conditions of note.
DECAY	date	12	Length of time in which skill decays.
MISSION	text	8	Mission Code.
RETRAIN	date	12	Time required to re-train decayed skills.
TASK	text	12	Task Code.
TITLE	text	120	
TRAIN WEIGHT	date integer	12 2	Length of time required for initial training. Importance of this task to the mission of which it is a part.
TASKSUMMARY			View used by report Tasksummary.
ARTEP	text	7	ARTEP astegory of training
ATITLE	text	50	ARTEP title.
MISSION	text	8	Mission Code.
MTITLE	text	50	Mission title.
TASK	text	12	Task Code.
TTITLE	text	120	Task title.
TTPTQUAL			PT qualification data.
BATTERY	charact	3	Battery Code - HHB, A, B, C, SVC.
CONDITION	charact	6	Weather conditions at time of PT.
DATE	date	12	Date of PT qualification test.
DOB	charact	6	Date of birth.

	Table/Field	Туре	Size	Table/Field Contents
	HEIGHT NAME	float charact	4 27	
	PUSHUPS_PTS	integer	2	
Γ.	RAW_PUSHUPS	integer	2	
Γ	KAW_KUN	cnaract	2	
	RAW_SITUPS	integer	25	
	RUN PTS	integer	2)	
	SITUPS PTS	integer	2	
	SSN	charact	9	Social Security Number.
	SSN	text	ģ	Social Security Number.
P ·	TEMP	integer	2	
	UNIT	charact	10	Unit name from OMTOE table.
	WEIGHT	integer	2	
Γ				
	TTWEAPONQUAL			Weapons qualification data.
ľ	BATTERY	charact	3	Battery Code - HHB, A, B, C, SVC.
F	CAL45CLASS	charact	1	Marksman, Sharpshooter, Expert.
	CAL45DATE	date	12	Date of .45 caliber pistol test.
Г	CAL45SCORE	charact	4	Score for .45 caliber pistol test.
	CAL50CLASS	charact	1	Marksman, Sharpshooter, Expert.
	CALSODATE	date	12	Date of .50 caliber machine gun test.
ľ	CAL50SCORE	charact	4	Score for .50 caliber machine gun test.
L	M16A1CLASS	charact	1	Marksman, Sharpshooter, Expert.
	MIGAIDATE	date	12	Date of MIO test.
1	MONISCORE	charact		Score for Mill test. Markeman Sharnshooter Expert
L	M203DATE	date	12	Date of M203 test
	M203SCORE	charact	4	Score for M203 test.
ľ	M60CLASS	charact	1	Marksman. Sharpshooter. Expert.
L	M60DATE	date	12	Date of M60 test.
E	M60SCORE	charact	4	Score for M60 test.
F	NAME	charact	27	Name of soldier.
L	SSN	charact	9	Social Security Number.
Ł	UNIT	charact	10	Unit name from OMTOE table.

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Table/Field	Туре	Size	Table/Field Contents
UNITSCORE			Scores of collective task training.
ARTEP	text	7	ARTEP category of training.
DATE	date	12	Date training occurred.
EVENT	text	14	Event identification code indicating type of
NTSSTON	tart	8	training, scheduler and sequence.
STATUS	text	2	TR-Trained NT-Not Trained NP-Need Practice
TASK	text	12	Task Code
UNIT	text	10	Unit name from OMTOE table.
XARTEPARTEP			Index on table "artep".
	tavt	7	APTEP asternary of training
TIDP	integer	4	Index pointer - for internal use only.
XEVENT1			Index on table "event".
BEGIN_DATE TIDP	date integer	12 4	Beginning date of training event. Index pointer - for internal use only.
XEVSOLD1	_		Index on table "eventsoldier".
EVENT	text	20	Event identification code indicating type of
SCN	b a u b	0	training, scheduler and sequence.
TIDP	integer	9	Index pointer - for internal use only.
XEVTASK1			Index on table "eventtask".
ARTEP	text	7	ARTEP category of training.
EVENT	text	20	Event identification code indicating type of
			training, scheduler and sequence.
TASK	text	12	Task Code.
TIDP	integer	- 4	Index pointer - for internal use only.

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Table/Field	Туре 	Size	Table/Field Contents
XEVUNIT1			Index on table "eventunit".
EVENT	text	20	Event identification code indicating type of training, scheduler and sequence.
TIDP UNIT	integer text	4 10	Index pointer - for internal use only. Unit name from OMTOE table.
XSOSCORE1	_		Index on table "soldierscore".
EVENT	text	20	Event identification code indicating type of
TIDP	integer	4	Index pointer - for internal use only.
XSOSCORE2	_		Index on table SOLDIERSCORE.
DATE TIDP	date integer	12 4	Index pointer - for internal use only.
.XSOSCORE3	_		Index on table "soldierscore".
SSN TIDP	text integer	9 4	Social Security Number. Index pointer - for internal use only.
XTASK1			Index on table "task".
TASK TIDP	text integer	12 4	Task Code. Index pointer - for internal use only.
XUNSCORE1			Index on table "unitscore".
EVENT	text	14	Event identification code indicating type of training, scheduler and sequence.
TIDP	integer	4	Index pointer - for internal use only.

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Table/Field	Туре	Size	Table/Field Contents	
B2MAGJ			Contents of original tapes from DLOGS.	
LINE PBAC PBIC PROC_CODE	charact charact charact charact	6 1 1 1	Line Item Number.	7
SERIAL NO STOCK NO SUBLINE	charact charact charact	10 15 6	National Stock Number.	\.
UNIT_ISSUE	charact charact	2	UNIT Identification Lode.	
E3WAGJ	oharaat	2	Contains data from original DLOGS tapes.	
LINE NOMENCLATURE PBAC	charact charact charact charact	2 6 22 1	Line Item Number.	
PBIC PROC_CODE STOCK_NO SUBLINE	charact charact charact charact	1 1 15 6	National Stock Number.	
UIC UNIT_ISSUE	charact charact	5	Unit Identification Code.	Б С
EMTOE			Equipment portion of MTOE.	₩ 1
AUTH AUTH_DOC CONTROL DELTA_AUTH DELTA_RQD	integer charact charact integer integer	4 14 1 4 4	Authorized quantity. Authorizing document.	
LINE NEW_DATE NEW_LINE	charact charact charact	6 6 6	Line Item Number.	2
PARA RICC RMK	charact charact	3		2
RQD SELECT_CODE	integer charact	5 4 1		
				r: -

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	Table/Field	Туре	Size	Table/Field Contents
	UIC UNIT	charact charact	5 10	Unit Identification Code. Unit name from Omtoe table
	G3WAGJ			Contains data fromm original DLOGS tapes.
22	AUTH AUTH_DOC ERC	float charact charact	4 8 1	Authorized quantity. Authorizing document.
R S	LAST_ACT_DT LINE PBAC PBIC	charact charact charact	4 6 1 1	Line Item Number.
	PROC_CODE QTY_DUE QTY_ON_HAND	charact float float	1 4 4	
	RICC RQD SERIAL_CODE SPEC_DESIG	charact float charact	1 4 1 1	
	STOCK_NO SUBLINE UIC	charact charact charact	14 6 5	National Stock Number. Unit Identification Code.
	UNIT_ISSUE UNIT_PRICE	charact float	2 4	
89	HANDRPT			Temporary table used to generate Hand Receipt report.
窓	AUTH BUMPRACK CNT	integer text integer	4 5 4	
1 33	DESC HANDREC LIN	text integer text	62 2 6	
	NSN RQD UIC	text integer text	4 5	
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Table/Field	Туре	Size	Table/Field Contents
HOLDRPARAX			Index on table "loholder".
PARA TIDP	integer integer	2 4	Index pointer - internal use only.
LOBNPLLRPT			Temporary table created for report "lobnpllrep".
AUTH DATE_ESTAB DEAD DESC DUE_QTY NSN ONHAND PD RATIO REQD ZEROBAL	integer date integer text integer text float integer integer	4 12 20 4 13 4 2 8 4 2	Authorized quantity. National Stock Number.
LOCOMP			Logistics property components
CNSN DESC MODEL PNSN TYPE UI	text text text text text text	13 60 12 13 4 2	Components' National Stock Number. Description. Model number. National Stock Number. COEI, BII, or AAL. Unit of issue.
LODOCREG			Logistics document register.
CLASS COMPL_DT COMPL_ST DESC DOCNO DODAAC DUE_QTY FOLLOWST FOLLOWUP	integer date text text integer text integer text date	1 12 4 20 4 6 4 8 12	Item Class number. Completion date. Completion status. Description. Document Serial number. Department of Defense Activity Address Code. Quantity due in. Follow-up status. Date of follow-up.

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-	Table/Field	Туре 	Size	Table/Field Contents
	INITIALS	text	3	Authorizing initials.
	NSN	text	13	National Stock Number.
	PD	text	2	Priority of Request.
	RECD TURN	integer	4	Quantity received or turned-in.
	REMARK	text	20	Remarks.
	RQUST FOR	text	12	Requestor's Identification.
1:	ROUST OTY	integer	4	Quantity requested.
t.,	SENT TO	text	3	Recipient Identification.
_	TIME	date	12	Date and time record was entered.
	LOEXCESSPART			Logistics excess parts.
	DESC	text	20	Description.
	DT_COMPL	charact	4	Julian date completed.
	DT_RECD	charact	4	Julian date received.
55	LOCATION	text	3	Location of parts.
2	NSN	text	13	National Stock Number.
	ONHAND	integer	4	Quantity in excess.
Ľ	RECD_FROM	text	3	Received from.
	REMARK	text	40	Remarks.
6	Lohand			Logistics hand receipt information
(. -	 Alith	integer	2	Authorized quantity
	BUMPRACK	tavt	6	Nabiola human number or see number for neck stared
T.	DOM NACK	UEXU	0	items
	COMP	tavt	1	Icens. Te this item a component (Yes, on No)
1 . 1	FLAG314	tert	1	linused
	HANDREC	integer	2	Hand Receipt number
C->	LASTCHG	date	12	linused
_	I.TN	tert	6	line Item Number
	NSN	text	13	National Stock Number
K.	ONHAND	integer	ц. Ц	On Hand Quantity
	RLTN	text	6	Renortable line Item Number - when an item is used as
			Ŭ	a substitute for another
	SEONO	text	2	2406 sequence number: 01 to 00 with optional trailing
	~~~		J	alpha character.
1 <b>-</b> -	SERIAL	text	12	Serial number.
	SUBHAND	text	 २	Unused.
67	UIC	text	2	Unit Identification Code.
1			-	

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UNIT  text  10  Unit name from Omtoe table    USA  text  10  US Army regristration number    LOHANDRET  View of "lohand" with soldier name and item description included.    AUTH  included.    AUTH  text  6    BUMPRACK  text  6    COMP  text  1    DESC  text  62    FLAG314  text  1    HANDREC  integer  2    LASTCHG  date  12    LIN  text  6    Social  Security Number.  National Stock Number.    NAME  charact  27    NSN  text  6    SEGNO  text  3    SERIAL  text  10    UNIT  text  9    Social  Security Number.    USA  text  9    Social  Security Number.    USA  text  9    Social  Security Number.    USA  text  9    Social <t< th=""><th>Table/Field</th><th>Туре </th><th>Size</th><th>Table/Field Contents</th></t<>	Table/Field	Туре 	Size	Table/Field Contents
USA text 10 US Army regristration number LOHANDRET LOHANDRET View of "lohand" with soldier name and item description included. AUTH integer 2 Authorized quantity. BUMPRACK text 6 COMP text 1 DESC text 62 FLAG314 text 1 HANDREC integer 2 LASTCHG date 12 LIN text 6 SEQNO text 13 National Stock Number. NAME charact 27 NATIONAL text 10 NAME charact 27 NATIONAL text 13 SERIAL text 12 SSN text 9 Social Security Number. SUBHAND text 3 UIC text 5 UNIT text 10 UNIT text 10 UNIT text 10 UNIT text 3 LOHOLDER HANDREC integer 2 Hand Receipt number. HANDREC integer 2 LOGISTICS hand receipt holders. HANDREC integer 2 Hand Receipt number. SSN text 9 Social Security Number. UIC text 5 UNIT text 10 UIC text 5 UNIT text 10 UIC text 5 UNIT text 10 UIC text 5 UNIT text 10 UIC text 5 UNIT Integer 2 Hand Receipt number. SSN text 9 Social Security Number. LOGISTICS hand receipt holders. HANDREC Integer 2 Hand Receipt number. SSN text 9 Social Security Number. UIC text 5 UNIT Identification Code. LOLINE LOGISTICS line items CLASS Integer 1 Item Class number. DESC text 62 Description. ECC text 1 Hearing unknown. ERC text 1 Hearing unknown.	UNIT	text	10	Unit name from Omtoe table
LOHANDRET  View of "lohand" with soldier name and item description included.    AUTH  integer  2    BUMPRACK  text  6    COMP  text  1    DESC  text  6    FLAG314  text  1    LASTCHG  date  12    LIN  text  6    MAME  charact  27    NSM  text  13    NAME  charact  27    NSM  text  13    NAME  charact  27    NSM  text  13    SERIAL  text  6    SEQNO  text  3    SUBHAND  text  9    SOCIAL Security Number.  SUBHAND    UNT  text  10    UNT  text  10    UNT  text  14    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    PARA  integer  2    SSN  text  9    Social S	USA	text	10	US Army regristration number
AUTH  integer  2  Authorized quantity.    BUMPRACK  text  6    COMP  text  1    DESC  text  62    FLAG314  text  1    HANDREC  integer  2    LASTCHG  date  12    LIN  text  1    NAME  charact  27    NSN  text  1    NATIO  integer  4    RLIN  text  1    NNN  text  1    NATIO  integer  4    RLIN  text  3    SEQNO  text  3    UIC  text  5    UNIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    INADREC  integer  2    LOHOLDER  Logistics hand receipt holders.    UIC  text  5    UIC  text  5    UIC	LOHANDRET			View of "lohand" with soldier name and item description included.
BUMPRACK text 6 COMP text 1 DESC text 62 FLAG314 text 1 HANDRCC integer 2 LASTCHG date 12 LIN text 6 LIN text 6 SEQNO text 13 National Stock Number. NAME charact 27 NSN text 13 National Stock Number. ONHAND integer 4 RLIN text 6 SEQNO text 3 SERIAL text 12 SSN text 9 SOCial Security Number. SUBHAND text 3 UIC text 5 UNIT Identification Code. UNIT text 10 UNIT name from Omtoe table. USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. PARA integer 2 Paragraph (section). SSN text 9 Social Security Number. UIC text 5 Unit Identification Code. LOLINE Logistics line items 	AUTH	integer	2	Authorized quantity.
COMP  text  1    DESC  text  62    FLAG314  text  1    HANDREC  Integer  2    LASTCHG  date  12    LIN  text  6    NAME  charact  27    NSN  text  13    National Stock Number.  0    NHAND  integer  4    RLIN  text  12    SSN  text  3    SERIAL  text  12    SSN  text  3    UIC  text  3    UNIT  text  10    SSN  text  10    SSN  text  10    SSN  text  10    SSN	BUMPRACK	text	6	
DESC text 62 FLAG314 text 1 HANDREC integer 2 LASTCHG date 12 LIN text 6 Line Item Number. NAME charact 27 NSN text 13 National Stock Number. ONHAND integer 4 RLIN text 6 SEQNO text 3 SERIAL text 12 SSN text 9 Social Security Number. SUBHAND text 3 UIC text 5 Unit Identification Code. UNIT text 10 Unit name from Omtoe table. USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. PARA integer 2 Paragraph (section). SSN text 9 Social Security Number. UIC text 5 Unit Identification Code. LOLINE Logistics line items CLASS integer 1 Item Class number. ERC text 2 Meaning unknown. ERC text 1 Emergency Readiness Code.	COMP	text	1	
FLAG314 text 1 HANDREC integer 2 LASTCHG date 12 LIN text 6 Line Item Number. NAME charact 27 NSN text 13 National Stock Number. ONHAND integer 4 RLIN text 6 SEQNO text 3 SERIAL text 12 SSN text 9 Social Security Number. SUBHAND text 3 UIC text 5 Unit Identification Code. UNIT text 10 Unit name from Omtoe table. USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. PARA integer 2 Paragraph (section). SSN text 9 Social Security Number. UIC text 5 Unit Identification Code. LOHOLDER Logistics line items 	DESC	text	62	
HANDREC integer 2 LASTCHG date 12 LIN text 6 Line Item Number. NAME charact 27 NSN text 13 National Stock Number. ONHAND integer 4 RLIN text 6 SEQNO text 3 SERIAL text 12 SSN text 9 Social Security Number. SUBHAND text 3 UIC text 5 Unit Identification Code. UNIT text 10 Unit name from Omtoe table. USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. PARA integer 2 Paragraph (section). SSN text 9 Social Security Number. UIC text 5 Unit Identification Code. LOLINE Logistics line items CLASS integer 1 Item Class number. ERC text 1 Emergency Readiness Code.	FLAG314	text	1	
LASTCHG date 12 LIN text 6 Line Item Number. NAME charact 27 NSN text 13 National Stock Number. ONHAND integer 4 RLIN text 6 SEQNO text 3 SERIAL text 12 SSN text 9 Social Security Number. SUBHAND text 3 UIC text 5 Unit Identification Code. UNIT text 10 Unit name from Omtoe table. USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. HANDREC integer 2 Hand Receipt number. HANDREC integer 2 Hand Receipt number. UIC text 5 Unit Identification Code. UIC text 5 Unit Identification Code. LOHOLDER Logistics hand receipt holders. 	HANDREC	integer	2	
LIN  text  6  Line Item Number.    NAME  charact  27    NSN  text  13  National Stock Number.    ONHAND  integer  4    RLIN  text  6    SEQNO  text  3    SERIAL  text  12    SSN  text  9    SOUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    HAN Rece  integer  2    PARA  integer  2    Yearagraph (section).  SSN    SSN  text  9    Social Security Number.  UIC    UIC  text  5    LOLINE  Logistics line items    CLASS  integer  1    Item Class number.  2    Description.  2    ERC  text  2    Meaning unknown	LASTCHG	date	12	
NAME  charact 27    NSN  text  13    NSN  text  13    NATIONAL STOCK Number  National Stock Number.    ONHAND  integer 4    RLIN  text  6    SEQNO  text  3    SERIAL  text  12    SSN  text  9    Social Security Number.  SUBHAND    UIC  text  5    UIC  text  10    UIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.	LIN	text	6	Line Item Number.
NSN  text  13  National Stock Number.    ONHAND  integer  4    RLIN  text  6    SEQNO  text  3    SERIAL  text  12    SSN  text  9    SOUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    HAND REC  integer  2    PARA  integer  2    VIC  text  9    Social Security Number.  UIC    UIC  text  9    Descial Security Number.  UIC    DESC  text  62    Description.  1 <td>NAME</td> <td>charact</td> <td>27</td> <td></td>	NAME	charact	27	
ONHAND  integer  4    RLIN  text  6    SEQNO  text  3    SERIAL  text  12    SSN  text  9    SUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    HAND Rec  integer  2    PARA  integer  2    SSN  text  9    Social Security Number.  UIC    UIC  text  9    Social Security Number.  UIC    UIC  text  9    Social Security Number.  UIC    UIC  text  5    UIT Identification Code.  1    Logistics line items	NSN	text	13	National Stock Number.
RLIN  text  6    SEQNO  text  3    SERIAL  text  12    SSN  text  9    SUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  10    UNIT  text  10    USA  text  8    LOHOLDER  Logistics hand receipt holders.	ONHAND	integer	4	
SEQNO  text  3    SERIAL  text  12    SSN  text  9    SUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  10    UNIT  text  10    UNIT  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    Hand Receipt number.  PARA    integer  2  Paragraph (section).    SSN  text  9    Social Security Number.  UIC    UIC  text  9    Social Security Number.  UIC    UIC  text  9    Social Security Number.  UIC    UIC  text  5    Unit Identification Code.  Unit Identification Code.    LOLINE  Logistics line items    CLASS  integer  1    DESC  text  62  Description.    ECC  text  2  Meaning unknown.	RLIN	text	6	
SERIAL  text  12    SSN  text  9    SUBHAND  text  3    UIC  text  5    UNIT  text  10    UNIT  text  10    USA  text  8    LOHOLDER  Logistics hand receipt holders.	SEQNO	text	3	
SSN  text  9  Social Security Number.    SUBHAND  text  3    UIC  text  5  Unit Identification Code.    UNIT  text  10  Unit name from Omtoe table.    USA  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    PARA  integer  2    SSN  text  9    Social Security Number.  UIC    UIC  text  9    SSN  text  9    Social Security Number.  UIC    UIC  text  5    UIC  text  5    UIT Identification Code.  Logistics line items    CLASS  integer  1    Item Class number.  DESC  text  62    Description.  ECC  text  2    ERC  text  1  Emergency Readiness Code.	SERIAL	text	12	
SUBHAND  text  3    UIC  text  5  Unit Identification Code.    UNIT  text  10  Unit name from Omtoe table.    USA  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    PARA  integer  2    SSN  text  9    Social Security Number.  UIC    UIC  text  5    UII Identification Code.  1    LOLINE  Logistics line items    CLASS  integer  1    Item Class number.  DESC    DESC  text  62    Description.  ECC    ERC  text  1    Emergency Readiness Code.  1	SSN	text	9	Social Security Number.
UIC  text  5  Unit Identification Code.    UNIT  text  10  Unit name from Omtoe table.    USA  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    Hand Receipt number.  Paragraph (section).    SSN  text  9    Social Security Number.  UIC    UIC  text  5    UNIT Identification Code.  Logistics line items    CLASS  integer  1    DESC  text  62    Description.  ECC  text    ERC  text  1    Emergency Readiness Code.  1	SUBHAND	text	3	
UNIT  text  10  Unit name from Omtoe table.    USA  text  8    LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    HANDREC  integer  2    PARA  integer  2    SSN  text  9    Social Security Number.  UIC    UIC  text  5    UNIT  Identification Code.    LOLINE  Logistics line items    CLASS  integer  1    DESC  text  62    Description.  ECC  text    ERC  text  1    Emergency Readiness Code.  1	UIC	text	5	Unit Identification Code.
USA text 8 LOHOLDER Logistics hand receipt holders. HANDREC integer 2 Hand Receipt number. PARA integer 2 Paragraph (section). SSN text 9 Social Security Number. UIC text 5 Unit Identification Code. LOLINE Logistics line items CLASS integer 1 Item Class number. DESC text 62 Description. ECC text 2 Meaning unknown. ERC text 1 Emergency Readiness Code.	UNIT	text	10	Unit name from Omtoe table.
LOHOLDER  Logistics hand receipt holders.    HANDREC  integer  2    PARA  integer  2    SSN  text  9    SSN  text  9    Social Security Number.  UIC    UIC  text  5    UIC  text  5    UII  Identification Code.    LOLINE  Logistics line items    CLASS  integer  1    DESC  text  62    Description.  ECC  text    ERC  text  1    Emergency Readiness Code.  1	USA	text	8	
HANDREC  integer  2  Hand Receipt number.    PARA  integer  2  Paragraph (section).    SSN  text  9  Social Security Number.    UIC  text  5  Unit Identification Code.    LOLINE  Logistics line items    CLASS  integer  1    DESC  text  62    Description.  ECC  text    ERC  text  1    Emergency Readiness Code.  1	LOHOLDER			Logistics hand receipt holders.
PARA  integer  2  Paragraph (section).    SSN  text  9  Social Security Number.    UIC  text  5  Unit Identification Code.    LOLINE  Logistics line items	HANDREC	integer	2	Hand Receipt number.
SSN  text  9  Social Security Number.    UIC  text  5  Unit Identification Code.    LOLINE  Logistics line items    CLASS  integer  1    Item Class number.  DESC    DESC  text  62    Description.  ECC    ERC  text  1    Emergency Readiness Code.  1	PARA	integer	2	Paragraph (section).
UIC  text  5  Unit Identification Code.    LOLINE  Logistics line items    CLASS  integer  1  Item Class number.    DESC  text  62  Description.    ECC  text  2  Meaning unknown.    ERC  text  1  Emergency Readiness Code.	SSN	text	9	Social Security Number.
LOLINE  Logistics line items    CLASS  integer  1    DESC  text  62    Description.  2    ECC  text  2    Meaning unknown.  2    ERC  text  1    Emergency Readiness Code.  2	UIC	text	5	Unit Identification Code.
CLASSinteger1Item Class number.DESCtext62Description.ECCtext2Meaning unknown.ERCtext1Emergency Readiness Code.	LOLINE	_		Logistics line items
DESCtext62Description.'ECCtext2Meaning unknown.ERCtext1Emergency Readiness Code.	CLASS	integer	1	Item Class number.
ECCtext2Meaning unknown.ERCtext1Emergency Readiness Code.	DESC	text	62	Description.
ERC text 1 Emergency Readiness Code.	ECC	text	2	Meaning unknown.
	ERC	text	1	Emergency Readiness Code.

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	Туре	Size	Table/Field Contents
LIN	text	6	Line Item Number.
MODEL	text	12	Model number.
OSI	text	1	0)rganization, S)tation, or I)nstallation.
UI	text	2	Unit of issue
LONSN			Logistics stock number information.
LIN	text	6	Line Item Number.
NSN	text	13	National Stock Number.
PRICE	float	4	Price of item.
SEC	text	1	Durability Code.
TM	text	30	Applicapable Technical Manual.
LOPLL			Logistics Prescribed Load List.
AUTH	integer	4	Authorized quantity.
DATE ESTAB	date	12	Date Established.
NSN	text	13	National Stock Number.
ONHAND	integer	4	On Hand Quantity.
UIC	text	5	Unit Identification Code.
		-	
LOPLLDESC			Logistics Prescribed Load List descriptions.
DESC	text	20	Description.
NSN	text	13	National Stock Number.
LOPLIRPT			Temporary table created for report "lonlines"
AUTH	integer	4	Authorized quantity.
DATE_ESTAB	date	12	
DESC	text	20	Description.
DOC NO	text	14	
	text	19	
DOC_NO	integer	4	
DOC_NO DUE_QTY			
DOC_NO DUE_QTY NSN	text	13	National Stock Number.
DOC_NO DUE_QTY NSN ONHAND	text integer	13 4	National Stock Number.
DOC_NO DUE_QTY NSN ONHAND PD	text integer text	13 4 2	National Stock Number.

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UIC text 5 Unit Identification Code.
LOREPAIR Logistics vehicle repair history.
ACTION text 1 Repair action: 0)rg shop, S)upply, R)epaired, X=support shop.
JOB text 8 Job number (if any).
NSN text 13 National Stock Number.
OCCUR date 12 Date action was taken.
REMARK text 40 Remarks.
REQ text 8 Requisition number (if any).
SERIAL text 12 Serial number.
STATUS text 1 Status after action was taken: O)perational, L)imited op, N)on-operational.
LOSERVICE Logistics vehicle service schedules.
$\frac{12}{12}$ Dute convice is due (if ony)
MAINT toxt 1 Tune of service to be performed (A. B. H. L. S
maining unknown)
MHDUF integer 4 Miles/Hours when service is due.
MHPFRF integer 4 Miles/Hours when service was performed.
MHUNITS text 1 Miles/Hours when service is next due.
NSN text 13 National Stock Number.
PERF date 12 Date service was performed.
REMARK text 40 Remarks.
SERIAL text 12 Serial number.
T2406B Temporary table containing data for the 2406 backside report.
ACTCODE text 1 Renair action code with the 181e changed to 171e
ACTION text 1 Repair action code
RUMPRACK text 6
D1 text 4
$D^2$ text 4
D3 text 4
DATI text 11
DAT2 text 11

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Table/Field	Туре	Size	Table/Field Contents
DAT3	text	11	
JOB	text	8	
MODEL	text	7	
MODEL	text	12	
' NIINO	text	9	
NINO	text	13	
CCCUR	date	12	
- OCCUR	text	25	
OD	date	12	
REMARK	text	40	
REQ	text	8	
SEQNO	text	3	
SERIAL	text	12	
STATUS	text	1	
TD1	text	11	
TD2	text	11	
l; TD3	text	11	
TUPLE	integer	4	
UIC	text	5	Unit Identification Code.
			• · · · · · · · · · · · · · · · · · · ·
T2406F			Temporary table created for report lo2406f.
		2	47 22 2 2 2 2 4 4 5 7 2 2 4 4 4 4 7 7 2 2 4 4 7 2 2 4 7 7 2 2 4 7 7 2 2 4 7 7 7 2 4 7 7 7 7
	integer	2	Auchinesternet
AV DAV1	Integer	11	Authorized quantity.
	text	10	
DAIZ	text	62	
	10710 1071	20	
FR FR	integer	2	
N ERC	text	2	
FS	integer	2	
LU	text	6	Line Item Number
MODEL	text	12	
CH OH	integer	2	
OM .	integer	2	
N OS	integer	2	
PD	integer	2	
RD	integer	2	
RLIN	text	6	
RO	integer	2	
		<u> </u>	
SEONO	text	2	

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Table/Field	Туре	Size	Table/Field Contents
SM	integer	2	
SS	integer	2	
TSEQ	text	3	
TBNROLL			Temporary table created for report "lobnroll".
AUTH	integer	2	Authorized quantity.
AUTH_DOC	text	14	Authorizing document.
DESC	text	72	
DUE	integer	2	
ERC	text	1	
LIN	text	6	Line Item Number.
MODEL	text	12	
NSN	text	13	National Stock Number.
ONHAND	integer	2	
PF	float	4	
PRICE	float	4	
REQ	integer	2	
RICC	text	1	
RLIN	charact	6	
UI	text	2	Inde Tameson and a contract
UIC	cnaract	5	Unit Identification Code.
TLOPHAND			Temporary table created for report "lophand".
ACTION	text	1	Repair action code.
AUTH	integer	2	Authorized quantity.
BUMPRACK	text	6	
COMP	text	1	
DESC	text	124	
HANDREC	integer	2	
JOB	text	8	
LIN	text	6	Line Item Number.
MODEL	text	12	
NAME	text	27	<b></b>
NSN	text	13	National Stock Number.
OCCUR	date	12	
UNHAND	integer	4	
KLMAKK	text	40	
KEQ	text	8	

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	Table/Field	Туре	Size	Table/Field Contents
	DITN	* • • *	6	
	SEC	text	1	
_	SEONO	text	י ז	
	SERIAL	text	12	
1	STATUS	text	1	
	UI	text	2	
	UIC	text	5	Unit Identification Code.
	UNIT	text	10	Unit name from table "omtoe".
	USA	text	8	
7				
	TLOPSTAT			Temporary table created for report lopstat.
5.2				
	ACTION	text	1	Repair action code.
	BUMPRACK	text	6	
ι.	DESC	text	40	
<b>{</b>	DESC	text	48	
۶.	HANDREC	integer	2	
	JOB	text	8	
Ŕ.	LIN	text	6	Line Item Number.
	MODEL	text	10	
	MODEL	text	12	
ζ.	NAME	text	27	
E?	NSN	text	13	National Stock Number.
	OCCUR	date	12	
-	ONHAND	integer	2	
	ONHAND	integer	4	
60	REMARK	text	6	
	REMARK	text	17	
	REMARK	text	40	
Ċ.	REQ	text	2	
	REQ	text	8	
R	RLIN	text	6	
	SEQNO	text	3	
	SERIAL	text	12	
c.,	STATUS	text	1	
1	TUPLE	integer	2	
Г×.	UI	text	2	
	010	text	5	Unit Identification Code.
	USA	text	8	
(	USA	text	10	

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Table/Field	Туре	Size	Table/Field Contents
U2406F			Temporary intermediate table generated by the 2406 frontside report procedure.
ACTION NSN OCCUR ODATE SACT	text text date date text	1 13 12 12 12	Repair action code. National Stock Number.
SEQNO SERIAL SPTM STATUS TOT	text text integer text integer	3 12 2 1 2	
UBNROLL			Temporary intermediate table generated by the Batallion rollup report procedure.
RLIN UIC	charact charact	6 5	Unit Identification Code.
ULOPSTAT			Temporary intermediate table generated by the Property Status report procedure.
ACTION	text	1	Repair action code.
JOB	text	8	
	text date	13	National Stock Number.
REMARK	text	40	
REQ	text	8	
SERIAL	text	12	
STATUS	text	1	
TUPLE	integer	4	
V2406F	-		Temporary intermediate table generated by the 2406 frontside report procedure.
AD	integer	2	
OH	integer	2	
OM	integer	2	

1		LOG	ISTICS	APPLICATION DETAILED TABLE DICTIONARY
Ta	ble/Field	Туре	Size	Table/Field Contents
OS PD RL SM SS TS	IN EQ	integer integer text integer integer text	2 2 6 2 2 3	
vei	HTYPE			Translates vehicle codes to vehicle names.
IT LI NA PA QT UN	EM NE TL_STOCK RA Y_ON_HAND IT_PRICE	charact integer charact integer integer float	10 2 10 2 4	
j, WE	APTYPE			Translates weapon code to weapon name.
	EM NE TL_STOCK RA Y_ON_HAND IT_PRICE	charact integer charact integer integer float	10 2 10 2 4	######################################
X1)	EMTOE			Index on table "emtoe".
LI TI UI	NE DP C	charact integer charact	6 4 5	Line Item Number. Index pointer - internal use only. Unit Identification Code.
<b>X1</b>	LODOCREG			Index on table "lodocreg".
NS TI	 N DP	text integer	13 4	National Stock Number. Index pointer - internal use only.

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Table/Field	Туре	Size	Table/Field Contents	
X1LOHAND BUMPRACK TIDP UIC	text integer text	6 4 5	? Index pointer - internal use only. Unit Identification Code.	
X3LOHAND			Index on table "lohand".	
HANDREC TIDP UIC	integer integer text	2 4 5	Index pointer - internal use only. Unit Identification Code.	
X4LOHAND			Index on table "lohand".	
RLIN TIDP	text integer	6 4	Index pointer - internal use only.	
X5LOHAND			Index on table "lohand".	
SEQNO TIDP	text integer	3	Index pointer - internal use only	

#### APPENDIX C

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## FIELD/TABLE CROSS REFERENCE

This table cross references every field in the database to the tables in which it occurs. It also indicates the declared size of each field.

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#### UTILITY FIELD / TABLE CROSS REFERENCE

Field	Туре	Size	Table	Field Contents
ACCT	charact	9	USERS	
ACQ	charact	1	OMTOE	Fourth character of rank field
ACTCODE	text	1	T2406B	Repair action code with the 'R's changed to 'Z's
ACTION	text	1	LOREPAIR T2406B TLOPHAND TLOPSTAT U2406F ULOPSTAT	Repair action: O)rg shop, S)upply, R)epaired, X=support shop.
ACTIVE_SERV	charact	6	ASSIGNED SERVICE SIDPERS SOLDIER	Basic Active Service Date
ACTUAL_BEGIN	date	12	STATUS	Beginning date of current status
ACTUAL_END	date	12	STATUS	End date of current status
AD	integer	2	T2406F V2406F	
AEA	charact	1	SIDPERS	
AEA_TERM	charact	6	SIDPERS	
AGE	float	8	PTQUALV	
AQ	integer	2	T2406F	Authorized quantity

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#### FIELD/ TABLE CROSS REFERENCE

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Field	Туре	Size	Table	Field Contents
ARRIVE_DATE	charact	6	ASSIGNED ATTACHED BNPERSONN SOLDIER UNITDATA	Date Arrived at Post
	LEXL	0	OHR	
ARRIVE_DATE1	charact	6	SIDPERS	
ARRIVE_DATE2	charact	6	SIDPERS	
ARTEP	text	7	ARTEP EVENT EVENTSUMMARY EVENTTASK MISSION SCHEDULE2 TASK TASKSUMMARY UNITSCORE XARTEPARTEP XEVTASK1	ARTEP category of training.
ASGD	integer	2	SKILLINVTRY	Count of assigned personnel for this grade and MOS
ASI	ch <b>ar</b> act	2	ASSIGNED ATTACHED OMTOE QUALS SIDPERS SOLDIER UMR	Additional Skill Identifier

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#### FIELD/ TABLE CROSS REFERENCE

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Field	Туре	Size	Table	Field Contents
ASSGN	charact	1	SIDPERS	
ATITLE	text	50	TASKSUMMARY	
ATTCH	charact	1	BNPERSONN	Flag to indicate attached or detached status
			SIDPERS SOLDIER	
AUTH	float	4	G3WAGJ OMTOE	Authorized quantity
	integer	2	SKILLINVTRY LOHAND LOHANDRET TBNROLL TLOPHAND	
		4	EMTOE HANDRPT LOBNPLLRPT LOPLL LOPLLRPT	
AUTH_DOC	charact	8 14	G3WAGJ EMTOE	Authorizing document
	text	14	TBNROLL	
AUTH_GRADE	charact	2	UMR	Authorized grade
AUTH_MOS	charact	5	UMR	Authorized MOS
AWOL	charact	1	SIDPERS	
BATTERY	charact	3	BATTERYCODES SEPRATS UMR PTQUALV TTPTQUAL TTWEAPONQUAL	
	text	3	EVENT EVENTSUMMARY SCHEDULE2	

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#### FIELD/ TABLE CROSS REFERENCE

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Field	Туре	Size	Table	Field Contents
BATTERYSEQ	integer	2	BATTERYCODES UMR	
BATTLE_POS	charact	4	ASSIGNED ATTACHED SOLDIER UNITDATA	Position in Wartime
BEGIN_DATE	date	12	EVENT EVENTSUMMARY SCHEDULE2 XEVENT 1	Beginning date of training event.
BEGIN_TIME	text	4	EVENT	Beginning time of training event in 24
		5	SCHEDULE2 Eventsummary	hour format - i.e. 1430.
BNPERSONN	charact	9	SOLDIERDD	Flag to indicate field is in Battalion Roster report
BONUS_DATE	charact	6	SOLDIER	Date bonus awarded
BONUS_DT	charact	6	SIDPERS	
BONUS_MOS	charact	3 6	ASSIGNED SIDPERS SOLDIER QUALS	Reenlistment Bonus MOS
BRANCH	charact	2	OMTOE	Branch of Service
BUMPER	charact	10	DRIVERS	Bumper number of the vehicle he drives

#### FIELD / TABLE CROSS REFERENCE

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Field	Туре	Size	Table	Field Contents
BUMPRACK	text	56	HANDRPT LOHAND LOHANDRET T2406B TLOPHAND TLOPSTAT X2LOHAND	
CAL45CLASS	charact	1	TTWEAPONQUAL	
CAL45DATE	date	12	TTWEA PONQUAL	
CAL45SCORE	charact	4	TTWEAPONQUAL	
CAL50CLASS	charact	1	TTWEAPONQUAL	
CAL50DATE	date	12	TTWEAPONQUAL	
CAL50SCORE	charact	4	TTWEAPONQUAL	
CARD_DT	charact	6	SEPRATS	Date of mealcard
CATEGORY	charact	20	DAILYRPT DAILYSTATUS STATCODES	
CATSEQ	charact	1	DAILYRPT DAILYSTATUS STATCODES	
CAT_CODE	charact	2	E3WAGJ	
CDR_POS	charact	1	UNITS	commander's position - unused
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Field	Туре	Size	Table	Field Contents
CITIZEN	charact	1	ASSIGNED PERSONAL SIDPERS SOLDIER	Citizenship Status
CIV_EDUC	charact	1 10	QUALS SIDPERS ASSIGNED SOLDIER	Civilian Education
CLASS	integer	1	LODOCREG LOLINE	Item Class number
CMD_DEP	integer	1	SIDPERS	
CNSN	text	13	LOCOMP	Components' National Stock Number
CNT	integer	4	HANDRPT	
CNT_ATTCH	integer	2	BNPERSONN	Flag to indicate attached
CODE	charact	1 2 2	CIVEDCODES CLEARANCE MILEDCODES SCTYSTATS RELIGION ATTFORMAT	SIDPERS code
	text	7	EVENTUNIT	
COMBAT_AREA	charact	1 6 10	SIDPERS SERVICE ASSIGNED SOLDIER	Area of Last Combat Tour

Field	Туре	Size	Table	Field Contents
COMMENT	charact	20	CONDITIONS SPECIAL	More description for this condition
COMMENTS	text	200 210	TASK EVENT EVENTSUMMARY SCHEDULE2	Special conditions of note.
COMP	text	1	LOHAND LOHANDRET TLOPHAND	Is this item a component (Yes, or No)
COMPL_3180	date	12	PRP	Date DA form 3180 was completed
COMPL_DT	date	12	LODOCREG	Completion date
COMPL_ST	text	4	LODOCREG	Completion status
CONDITION	charact	6 15	PTQUALV TTPTQUAL CONDITIONS SPECIAL	
CONTROL	charact	1	EMTOE	
CONUS_PREF	charact	2	SIDPERS	
CURR_STATUS	charact text	11 11	STATUS BNPERSONN	Current status
CUR_PROMO_DT	charact	4 10	ASSIGNED SIDPERS SOLDIER QUALS	Current Promotion Date

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Field	Туре	Size	Table	Field Contents
CUR_PROMO_PT	charact integer	 4 2	QUALS ASSIGNED SIDPERS SOLDIER	Current Promotion Pts
CUST	charact	1	PRP	Custodian (Y or N)
C_INIT_SCORE	integer	1	PRP	Custodian initial test score
C_INIT_TEST	date	12	PRP	Custodian initial test date
C_SEMI_SCORE	integer	1	PRP	Custodian semi-annual test score
C_SEMI_TEST	date	12	PRP	Custodian semi-annual test date
D1	text	4	T2406B	
D2	text	4	T2406B	
D3	text	4	T2406B	
DAILYSTATUS	charact	11	SOLDIERDD	Flag to indicate field is in Daily Status report
DASI	charact	2 5	ASSIGNED ATTACHED SIDPERS SOLDIER QUALS	Duty Additional Skill Identifier
DAT1	text	11	T2406B	
DAT2	text	11	T2406B	

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Field	Туре	Size	Table	Field Contents
DAT3	text	11	т2406в	
DATE	charact date	6 12	SPECIAL MOSSCORE MOSSCORE2 PTQUALV SOLDIERSCORE TTPTQUAL UNITSCORE XSOSCORE2	Date that special condition took effect
DATE_ESTAB	date	12	LOBNPLLRPT LOPLL LOPLLRPT	
DATE_LOSS	charact	6	ASSIGNED SIDPERS SOLDIER UNITDATA	Anticipated Date of Loss
DAY1	text	11	T2406F	
DAY2	text	10	T2406F	
DAYS_LEAVE	charact float integer	4 4 2	SERVICE SOLDIER ASSIGNED	Number of Days Leave
DEAD	integer	2	LOBNPLLRPT	
DECAY	date	12	TASK	Length of time in which skill decays.
DELAY SEP	charact	1	SIDPERS	

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Field	Туре	Size	Table	Field Contents
DELCODE	charact	1	SIDPERS	
DELTA_AUTH	integer	4	EMTOE	
DELTA_RQD	integer	4	EMTOE	
DEPART_DATE	charact	5 6	UNITDATA ASSIGNED ATTACHED SOLDIER	Actual Date of Departure
	text	6	UMR	
DEPART_DATE1	charact	6	SIDPERS	
DEPART_DATE2	charact	6	SIDPERS	
DEPENDENTS	charact integer	1 1	PERSONAL ASSIGNED SIDPERS SOLDIER	Number of Dependents
DEPLOY	charact	1	CONDITIONS STATCODES	Deployability status for this condition
	text	1	UMR	
DESC	charact text	40 20 40 48	SOLDIERDD LOBNPLLRPT LODOCREG LOEXCESSPART LOPLLDESC LOPLLRPT TLOPSTAT TLOPSTAT	Description of field
		60 62 72 124	LOCOMP HANDRPT LOHANDRET LOLINE T2406F TBNROLL TLOPHAND	

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Field	Туре	Size	Table	Field Contents
DESCRIPTION	text	40 50	EVENTSUMMARY EVENT SCHEDULE2	Brief summary.
DMOS	charact	5	ASSIGNED ATTACHED SIDPERS SOLDIER UMR QUALS	Duty MOS
DOB	charact	6	ASSIGNED ATTACHED PERSONAL SIDPERS SOLDIER TTPTQUAL	Date of Birth
DOCNO	integer	4	LODOCREG	Document Serial number
DOCSEQ	charact	1	BATTERYCODES	
DOC_NO	text	14 19	LOPLLRPT LOPLLRPT	
DODAAC	text	6	LODOCREG BATTERYCODES	Department of Defense Activity Address Code
DOR	charact	6	ASSIGNED ATTACHED BNPERSONN QUALS SIDPERS SOLDIER	Date of Rank

Field	Туре	Size	Table	Field Contents
DRIV POS	charact		DRIVERS	Assistant or primary driver
DT_COMPL	charact	4	LOEXCESSPART	Julian date completed
DT_RECD	charact	4	LOEXCESSPART	Julian date received
DUAL_SERV_GR	charact	4	SIDPERS	
DUAL_SERV_ST	charact	1	SIDPERS	
DUE	date integer	12 2	LOSERVICE TBNROLL	Date service is due (if any)
DUE_QTY	integer	4	LOBNPLLRPT LODOCREG LOPLLRPT	
DUTY_DATE	charact	6	SIDPERS	
DUTY_LANG	charact	2	SIDPERS	
DUTY_STATUS	charact	3	SIDPERS	
ECC	text	2	LOLINE T2406F	meaning unknown
ED_EVAC	date	12	PRP	Emergency Destruction and Evacuation (date)
EER_SEER	charact	1	SIDPERS	
ELIG_FHA	charact	1	SIDPERS	
ELIG MEDAL	charact	6	SIDPERS	

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Field	Туре	Size	Table	Field Contents
ELIG_REEN	charact	2	SIDPERS	
ELIG_RET_OS	charact	6	SIDPERS	
END_DATE	date	12	EVENT	Ending date of a training event.
			EVENTSUMMARY Schedule2	Currently not used.
END_TIME	text	4	EVENT	Ending time of a training event in 24
		5	SCHEDULE2 Eventsummary	hour format - i.e. 1430.
ENLIST	integer	2	BNPERSONN	Flag to indicate enlisted
ENLIST_ASG	integer	2	UMR	Flag to indicate enlisted and assigned
ENLIST_AUT	integer	2	UMR	Flag to indicate enlisted and authorized
ENLIST_BONUS	charact	1	SIDPERS	
ER	integer	2	T2406F	
ERC	charact text	1 1 2	G3WAGJ LOLINE TBNROLL T2406F	
ES	integer	2	T2406F	
ETHNIC	charact ,	1 5	SIDPERS ASSIGNED PERSONAL SOLDIER	Ethnic Group Designator

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Field	Туре	Size	Table	Field Contents
ETS_DATE	charact	1 6	SERVICE ASSIGNED GTRPT SIDPERS SOLDIER UMR	Expiration Term of Service
EVENT	text	14	EVENT SCHEDULE2 UNITSCORE XUNSCORE1 EVENTSOLDIER EVENTSOLDIER EVENTSUMMARY EVENTTASK EVENTUNIT MOSSCORE MOSSCORE2 SOLDIERSCORE XEVSOLD1 XEVTASK1 XEVUNIT1 XSOSCORE1	Event identification code indicating type of training, scheduler and sequence.
FAIL	integer	2	MOSSCORE	Number of fails recorded for a given task.
FLAG314	text	1	LOHAND LOHANDRET	unused
FOLLOWST	text	8	LODOCREG	Followup status

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Field	Туре	Size	Table	Field Contents
FOLLOWUP Forgn_serv	date charact	12 1 2 10	LODOCREG SIDPERS SERVICE ASSIGNED SOLDIER	Date of followup Area of Last Foreign Service
FORM	charact	12	SOLDIERDD	Name of form that contains this field
FORMAT	charact	9	ATTFORMAT	
GOOD_CONDUCT	charact	6	SIDPERS	
GRADE	charact	2	ASSIGNED ATTACHED BNPERSONN GRADES GTRPT OMTOE QUALS SEPRATS SKILLINVTRY SOLDIER UMR SIDPERS	Pay Grade
GTA_SCORE	integer	2	SIDPERS	
GT_SCORE	charact integer	6 2	QUALS ASSIGNED GTRPT SOLDIER	General Technical Aptitude Score
HANDREC	integer	2	HANDRPT LOHAND LOHANDRET LOHOLDER TLOPHAND TLOPSTAT X3LOHAND	

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Field	Туре	Size	Table	Field Contents
HEIGHT	float integer	4	PTQUALV TTPTQUAL TTPTQUAL	
HOR	charact	15	SOLDIER	Home of record
ID	text	3	SCHEDULER	Initials of training event scheduler.
INCENT_PAY	charact	5	SOLDIER	Incentive Pay for Special Duty
INCENT_PAY1	charact	5	SIDPERS	
INCENT_PAY2	charact	5	SIDPERS	
INITIALS	text	3	LODOCREG	Authorizing initials
INIT_3180	date	12	PRP	Date DA form 3180 was initiated
INIT_SCORE	integer	1	PRP	Score from Initial test
INIT_TEST	date	12	PRP	Date of initial test
INIT_TRNG	date	12	PRP	Date of initial training
INSTRUCTOR	text	30	EVENT	Instructor(s) of tasks to be trained.
			EVENTSUMMARY Schedule2	Elther name or position is used.
ITEM	charact	10	VEHTYPE Weaptype	
JOB	text	8	LOREPAIR T2406B TLOPHAND TLOPSTAT ULOPSTAT	Job number (if any)

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Field	Туре	Size	Table	Field Contents
LANG	charact	2	ASSIGNED QUALS SOLDIER	Language Identifier
LANG1	charact	2	SIDPERS	
LANG2	charact	2	SIDPERS	
LASTCHG	date	12	LOHAND LOHANDRET	unused
LAST_ACT_DT	charact	4	G3WAGJ	
LAST_COMBAT	charact	6	ASSIGNED SERVICE SIDPERS SOLDIER	Year and Month - Last Combat
LAST_ER	charact	6	ASSIGNED SERVICE SIDPERS SOLDIER	Year and Month - Last Efficiency Rating
LAST_PCS	charact	6	SIDPERS	
LAST_PERS_DT	charact	6	SIDPERS	
LAST_PERS_TP	charact	4	SIDPERS	
LAST_XACT_DT	charact	6	SIDPERS	
LAST_XACT_TP	charact	4	SIDPERS	
LEAVE1	integer	2	STOPERS	

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Field	Туре	Size	Table	Field Contents
LEAVE2	integer	2	SIDPERS	
LIC	charact	2	OMTOE	
LIC_CLASS	charact	4 10	BNPERSONN BNPERSONN DRIVERS	Drivers licence class
LIC_NO	charact	10	DRIVERS	License number
LIN	text	6	HANDRPT LOHAND LOHANDRET LOLINE LONSN T2406F TBNROLL TLOPHAND TLOPSTAT	
LINE	charact	6	B2MAGJ E3WAGJ EMTOE G3WAGJ X1EMTOE	Line Item Number
	integer	2	VEHTYPE WEAPTYPE OMTOE	
LOCAL	charact	40	SIDPERS	
LOCATION	charact text	10 3 20	STATUS LOEXCESSPART EVENT EVENTSUMMARY SCHEDULE2	Location of soldier if absent from duty

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Field	Туре	Size T	[able	Field Contents
LOSS_DATE	text	 6 U	JMR	Expected date of loss
M16A1CLASS	charact	1 1	TWEAPONQUAL	
M16A1DATE	date	12 1	<b>TTWEAPONQUAL</b>	
M16A1SCORE	charact	4 T	TTWEAPONQUAL	
M203CLASS	charact	1 1	TWEAPONQUAL	
M203DATE	date	12 1	TTWEA PONQUAL	
M203SCORE	charact	4 T	TTWEAPONQUAL	
M60CLASS	charact	1 T	TWEA PONQUAL	
M60DATE	date	12 T	TWEAPONQUAL	
M60SCORE	charact	4 1	TWEAPONQUAL	
MAINT	text	1 L	LOSERVICE	Type of service to be performed (A, B, H, L, S meanings unknown)
MARITAL	charact	1 A S	ASSIGNED SIDPERS SOLDIER	Marital Status
		10 P	PERSONAL	
MEALCARD	charact	8 E S	BNPERSONN SEPRATS SOLDIER	Mealcard Number
	integer	4 A A U	ASSIGNED ATTACHED JNITDATA	

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Field	Туре	Size	Table	Field Contents
MEALCARD_DT	charact	6	ASSIGNED ATTACHED BNPERSONN SOLDIEB	Date Mealcard Issued
	integer	4	UNITDATA	
MHDUE	integer	4	LOSERVICE	Miles/Hours when service is due
MHPERF	integer	4	LOSERVICE	Miles/Hours when service was performed
MHUNITS	text	1	LOSERVICE	M) or H)ours when service is next due.
MIL_EDUC	charact	1 10	SIDPERS ASSIGNED QUALS SOLDIER	NCO Graduate/ Military Education Level
MISSION	text	8	EVENTSUMMARY EVENTTASK MISSION TASK TASKSUMMARY UNITSCORE	Mission Code
MODEL	text	7 10 12	T2406B TLOPSTAT LOCOMP LOLINE T2406B T2406F TBNROLL TLOPHAND TLOPSTAT	

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Field	Туре	Size	Table	Field Contents
MOS	charact	5	ASSIGNED ATTACHED BNPERSONN OMTOE QUALS SIDPERS SKILLINVTRY SOLDIER UMR	Military Occupational Specialty Code
	text	5 8	MOS EVENTSOLDIER MOSSCORE MOSSCORE2 SOLDIERSCORE	
MOVE_DESIG1	charact	2	SIDPERS	
MOVE_DESIG2	charact	2	SIDPERS	
MPC	charact	1	ASSIGNED ATTACHED BNPERSONN DAILYRPT DAILYSTATUS MPCCODES PERSONAL SIDPERS SOLDIER STATUS UMR	Military Personnel Class
MPCNAME	charact	8	MPCCODES	
MPCSEQ	integer	2	DAILYRPT DAILYSTATUS MPCCODES	

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Field	Туре	Size	Table	Field Contents	<u> </u>
MTITLE	text	50	TASKSUMMARY		
NAME	charact	8	SORTMPC		
		12	SOLDIERDD		
		26	RELIGION		55
		27	LOHANDRET		5
			ASSIGNED		
			ATTACHED		. 4
			BNPERSONN		
			DRIVERS		
			GIRPT		-
			PERSONAL		
					• •
			SEDDATS		
			SERVICE		
			SIDPERS		-
			SOLDIER		
			SONAMEX		
			SPECIAL		
			STATUS		
			UMR		
			UNITDATA		
			PTQUALV		
			TTPTQUAL		5
			TTWEAPONQUAL		Ę.
	• •	30	UNITS		•
	text	27	TLOPHAND		
			TLOPSTAT		
			EVENTSOLDIER		•
NATL_STOCK	charact	10	VEHTYPE		
			WEAPTYPE		

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Field	Туре	Size	Table	Field Contents
NEWUPC	charact	5	SOLDIER	UPC of receiving unit if soldier is detached
NEW_DATE	charact	6	EMTOE	
NEW_LINE	charact	6	EMTOE	
NEXTDT	date	12	PTQUALV	
NIINO	text	9	T2406B	
NINO	text	13	T2406B	
NOMENCLATURE	charact	22	E3WAGJ	
NON_CMD_DEP	integer	1	SIDPERS	
NOTEVAL	integer	2	MOSSCORE MOSSCORE2	Number of "notevals" for a task.
NSN	text	13	HANDRPT LOBNPLLRPT LODOCREG LOEXCESSPART LOHAND LOHANDRET LONSN LOPLL LOPLLDESC LOPLLRPT LOREPAIR LOSERVICE TBNROLL TLOPHAND TLOPSTAT U2406F ULOPSTAT X1LODOCREG X1LOHAND X1LOPLL	

Field	Туре	Size	Table	Field Contents
NUM	integer	2	DAILYRPT DAILYSTATUS	
OCCUR	date	12	LOREPAIR T2406B TLOPHAND TLOPSTAT U2406F ULOPSTAT	Date action was taken
	text	25	T2406B	
OD	date	12	T2406B	
ODATE	date	12	U2406F	
OFF	integer	2	BNPERSONN	Flag to indicate officer
OFFICER_ASG	integer	2	UMR	Flag to indicate officer and assigned
OFFICER_AUT	integer	2	UMR	Flag to indicate officer and authorized
ОН	integer	2	T2406F V2406F	
OJT_DT	charact	6	ASSIGNED QUALS SIDPERS SOLDIER	Year and Month of OJT Completion
OLDUPC	charact	5	SOLDIER	UPC of sending unit if soldier is attached
ОМ	integer	2	T2406F V2406F	

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Field	Туре	Size	Table	Field Contents
ONHAND	integer	2	TBN ROLL TLOP STAT LOBNPLLRPT LOE XCESSPART LOHAND LOHANDRET LOPLL LOPLLRPT TLOPHAND TLOP STAT	
ORGANIC	charact	1	SOLDIER	Indicator if soldier is an SD gain
OS ^r	integer	2	T2406F V2406F	
OSI	text	1	LOLINE	O)rganization, S)tation, or I)nstallation
OS_PREF1	charact	2	SIDPERS	
OS_PREF2	charact	2	SIDPERS	
OS_PREF3	charact	2	SIDPERS	
OWNER	charact	15	USERS	
PARA	charact integer	3 2	EMTOE HOLDRPARAX LOHOLDER VEHTYPE WEAPTYPE OMTOE UNITS	

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Field	Туре	Size	Table	Field Contents
PARENT	charact	10	UNITS	Unit name of next echelon up
PARTICIPANTS	text	20	EVENT	Brief indication of level of participation - i.e. ALL, BTY(-), SEL
			EVENTSUMMARY Schedule2	r Eng.
PASS	integer	2	MOSSCORE MOSSCORE2	Number of passes recorded for a task.
PAYROLL_NO	integer	2 4	UNITDATA ASSIGNED	
PAY_ENTRY	charact	6	ASSIGNED GTRPT SERVICE SIDPERS SOLDIER	Pay Entry Basic Date (PEBD)
PBAC	charact	1	B2MAGJ E3WAGJ G3WAGJ	
PBIC	charact	1	B2MAGJ E3WAGJ G3WAGJ	
PD	integer	2	T2406F V2406F	
	text	2	LOBNPLLRPT LODOCREG LOPLLRPT	

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Field 	Туре	Size	Table	Field Contents
PERCENTILE	integer	1	SIDPERS	
PERF	date	12	LOSERVICE	Date service was performed.
PF	float text	4 7	TBN ROLL PTQU ALV	
PGM_PROCURE	charact	2	SIDPERS	
PHOTO_SUSP	charact	6	ASSIGNED SERVICE SIDPERS SOLDIER	Year and Month of Photograph Suspense
PHYS_CATEG	charact	1	ASSIGNED QUALS SIDPERS SOLDIER	Physical Category Code
PLAN	text	10	SEPRATS	Planned personnel status
PLAN_BEGIN	date	12	STATUS	Begin date for planned status
PLAN_END	date	12	STATUS	End date for planned status
PLAN_STATUS	charact	11	STATUS	Place to enter a future status when it is known in advance
PNSN	text	13	LOCOMP	National Stock Number
POS	charact	4	OMPOSX OMTOE PRP SEPRATS UMR TRANSIENT	Sidpers position code

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Field	Туре	Size	Table	Field Contents
POSITION	charact	4	ASSIGNED ATTACHED SOLDIER SOPOSX UNITDATA	Duty Position
POSITION 1	charact	4	SIDPERS	
POSITION2	charact	4	SIDPERS	
POS_FILLED	integer	2	UMR	Flag to indicate if position is assigned
POS_TITLE	charact	20 24	TRANSIENT OMTOE UMB	Title of position
	text	20	SEPRATS	
POTNTL_UPC1	charact	5	SIDPERS	
POTNTL_UPC2	charact	5	SIDPERS	
PRE_PROMO_DT	charact	4	SIDPERS	
PRE_PROMO_PT	integer	2	SIDPERS	
PRICE	float	4	LONSN TBNROLL	Price of item
PRIV_DISPUTE	charact	1	SIDPERS	Indicator that there was a privacy dispute
			SOLDIER	
PROC_CODE	charact	1	B2MAGJ E3WAGJ G3WAGJ	

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Field	Туре	Size	Table	Field Contents
PROFIC_PAY	charact	1	SIDPERS	
PROMO_IND	charact	1	ASSIGNED SIDPERS SOLDIER	Promotion Indicator
	integer	2	QUALS	
PROMO_MOS	charact	4	SIDPERS	
PULHES	charact	6	ASSIGNED QUALS SIDPERS SOLDIER	Physical Profile
PUSHUPS_PTS	integer	2	PTQUALV TTPTQUAL	
QTRLY_TRNG	date	12	PRP	Date of last quarterly refresher training
QTY_DUE	float	4	G3WAGJ	
QTY_ON_HAND	float integer	4 2	G3WAGJ Vehtype Weaptype	
RACE	charact	1	ASSIGNED PERSONAL SIDPERS SOLDIER	Race
RANK	charact	3 4	OMTOE ASSIGNED ATTACHED GRADES GTRPT QUALS SOLDIER	Rank

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Field	Туре	Size	Table	Field Contents
RANK_DATE	text	6	UMR	Date of rank
RATER1	charact	6 9 16	SERVICE ASSIGNED SOLDIER	Name of first EER or OER rater
RATER2	charact	9 16	ASSIGNED SERVICE SOLDIER	Name of second EER or OER rater
RATER3	charact	9 16	ASSIGNED SERVICE SOLDIER	Name of third EER or OER rater
RATER_DATE	charact	6 9	ASSIGNED SOLDIER SERVICE	Effective Date of Rating
RATIO	float	8	LOBNPLLRPT	
RAW_PUSHUPS	integer	2	PTQUALV TTPTQUAL	
RAW_RUN	charact	6	PTQUALV TTPTQUAL	
RAW_SITUPS	integer	2	PTQUALV TTPTQUAL	
RD	integer	2	T2406F	
REASON	charact	15	STATUS	If applicable, reason soldier has a particular status

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Field	Туре	Size	Table	Field Contents
RECD_FROM	text	3	LOEXCESSPART	Received from
RECD_TURN	integer	4	LODOCREG	Quantity received or turned-in
REFS	text	12	EVENT EVENTSUMMARY SCHEDULE2	Reference document number from which training guidelines were obtained.e
REG_BR	charact	2 4	ASSIGNED SIDPERS SOLDIER UNITDATA	Regimental Branch
REG_HOME	charact	2 10	SIDPERS UNITDATA ASSIGNED SOLDIER	Regimantal Home
REG_NO	charact	4	ASSIGNED SIDPERS SOLDIER	Regimental Number
	integer	2	UNITDATA	
RELIGION	charact	2 5 10 26	SIDPERS PERSONAL ASSIGNED SOLDIER	Religion
REMARK	text	6 17 20 40	TLOPSTAT TLOPSTAT LODOCREG LOEXCESSPART LOREPAIR LOSERVICE T2406B TLOPHAND TLOPSTAT ULOPSTAT	

Field	Туре	Size	Table	Field Contents
REPORT_DATE	charact	6	ASSIGNED SOLDIER UNITDATA	Date Assigned to this Unit
	text	6	UMR	
REPORT_DATE1	charact	6	SIDPERS	
REPORT_DATE2	charact	6	SIDPERS	
REQ	integer text	2 2 8	TBNROLL TLOPSTAT LOREPAIR T2406B TLOPHAND TLOPSTAT ULOPSTAT	
REQD	integer	4	LOBNPLLRPT LOPLLRPT	
RETRAIN	date	12	TASK	Time required to re-train decayed skills.
RET_OS	charact	6	ASSIGNED SIDPERS SOLDIER	Date Returned from Overseas
	integer	1	SERVICE	
RICC	charact	1	EMTOE G3WAGJ	
	text	1	TBNROLL	
RLIN	charact	6	TBNROLL UBNROLL	
	text	6	LOHAND LOHANDRET T2406F TLOPHAND TLOPSTAT V2406F X4LOHAND	

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Field	Туре	Size	Table	Field Contents
RMK	charact	3	EMTOE	
RMKS	charact	5 25	OMTOE PTQUALV TTPTQUAL	Remarks (coded)
RQ	integer	2	T2406F	
RQD	float	4	G3WAGJ OMTOE SKILLINVTRY	
	integer	4	EMTOE HANDRPT	
RQD_READ_BEG	date	12	PRP	Date that required reading was begun
RQD_READ_END	date	12	PRP	Date that required reading was finished
RQUST_FOR	text	12	LODOCREG	Requestor's Identification
RQUST_QTY	integer	4	LODOCREG	Quantity requested
RSC	charact	1	SIDPERS	
RUN_PTS	integer	2	PTQUALV TTPTQUAL	
SACT	text	1	U2406F	
SASI	charact	2 5	ASSIGNED SIDPERS SOLDIER QUALS	Secondary Additional Skill Identifier

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Field	Туре	Size	Table	Field Contents
SAS_TEAM	charact	5	PRP	Sealed Authentication system team (BTRY)
SCHEDULER	text	12	EVENT	Ingres username of individual who added
			SCHEDULE2	one event to one schedule.
SCTY_CLNC	charact	1 2	SIDPERS BNPERSONN SOLDIER UMR	Security Clearance
		10	ASSIGNED QUALS	
SCTY_STATUS	charact	1 4 12	SIDPERS SOLDIER ASSIGNED QUALS	Status of Security Clearance
SEC	text	1	LONSN TLOPHAND	Durability Code
SELECT_CODE	charact	1	EMTOE	
SEMI_RETEST	date	12	PRP	Date of last semi-annual retest
SEMI_SCORE	integer	1	PRP	Score from last semi-annual retest
SENT_TO	text	3	LODOCREG	Recipient Identification
SEP_PGM	charact	3	SIDPERS	
SEP_RATIONS	charact	1	BNPERSONN SOLDIER	Flag to indicate separate rations

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Field	Туре 	Size	Table	Field Contents
SEQ	integer	2	SCHEDULER	Number of events created by this scheduler used to maintain a sequence counter.
SEQNO	integer text	2 3	SKILLINVTRY LOHAND LOHANDRET T2406B T2406F TLOPHAND TLOPSTAT U2406F X5LOHAND	Flag for break in report
SEQUENCE	integer	2	SORTMPC	
SERIAL	text	12	LOHAND LOHANDRET LOREPAIR LOSERVICE T2406B TLOPHAND TLOPSTAT U2406F ULOPSTAT X1LOHAND	Serial number
SERIAL_CODE	charact	1	G3WAGJ	
SERIAL_NO	charact	10	B2MAGJ	
SERVICE_COMP	charact	1	SIDPERS	
SEX	charact	1	ASSIGNED ATTACHED PERSONAL SIDPERS SOLDIER	Sex

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Field	Туре	Size	Table	Field Contents
SIDE	charact		PRP	Red or blue side in SAS team
SITUPS_PTS	integer	2	PTQUALV TTPTQUAL	
SKILLINV	charact	8	SOLDIERDD	Flag to indicate field is in Skill inventory report
SM	integer	2	T2406F V2406F	
SMOS	charact	5	ASSIGNED SIDPERS SOLDIER	Secondary MOS
		10	QUALS	
SPEC_DESIG	charact	1	G3WAGJ	
SPEC_PAY	charact	5	SOLDIER	Pay for special duty
SPEC_PAY1	charact	5	SIDPERS	
SPEC_PAY2	charact	5	SIDPERS	
SPTM	integer	2	U2406F	
SQT_CODE	charact	1	SIDPERS	
SQT_DATE	charact	6	SOLDIER	Date of SQT test
SQT_DT1	charact	6	SIDPERS	
SQT_DT2	charact	6	SIDPERS	

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SQT_MOS charact 4 SIDPERS   SQT_SCORE integer 2 SIDPERS Skill Qualification Test Score   SS integer 2 T2406F   SSN charact 9 ASSIGNED Social Security Number   ATTACHED Speriod UNITDATA   PTQUAL TTPTQUAL TTPTQUAL   TTPERSONN PERSONN PERSONN   PTQUAL TTPTQUAL TTPTQUAL   TTPTQUAL TTPTQUAL TTPTS   SOLDIER SOSSNX STATSSNX   STATSSNX STATSSNX STATSSNX   STATSSOR UMR EVENTSOLDIER   MOSSCORE SOLDIERR SOLDIER   SOLDIER SOLDIER SOLDIER   SOLDIERSORE SOLDIER SOLDIER   SOLDIERSORE SOLDIER SOLDIER   SOLDIERSORE SOLDIER SOLDIER   SOLDIERSORE SOLDIER SOLDIER	Field	Туре	Size	Table	Field Contents
SQT_SCORE integer 2 SIDPERS SOLDIER Skill Qualification Test Score   SS integer 2 T2406F V2406F Social Security Number   SSN charact 9 ASSIGNED MPERSONN PERSONN PERSONN PERSONN PERSONN DALS SERVICE UMR UNITDATA PTQUAL Social Security Number   text 9 LOHANDRET LOHOLDER BNPERSONN DRIVERS SOLDIER SOSSNX SPECIAL STATSSNX STATUS UMR EVENTSOLDIER MOSSCORE SOLDIER SOLDIER SOLDIERS SOLDIERS SOLDIER SOLDIERS SOLDIERS SOLDIERS SOLDIERS SOLDIERS SOLDIERSONE TTPTQUAL	SQT_MOS	charact	4	SIDPERS	
SS integer 2 T2406F V2406F SSN charact 9 ASSIGNED Social Security Number ATTACHED BNPERSONN PERSONAL QUALS SERVICE UMR UNITDATA PTQUALV TTPTQUAL text 9 LOHANDRET LOHOLDER BNPERSONN DRIVERS DRIVERS SOLDIER SOSSNX SPECIAL STATSSNX STATUS UMR EVENTSOLDIER MOSSCORE MOSSCORE MOSSCORE SOLDIERSCORE TTPTQUAL XEVSOLD1 XSOSCORE3	SQT_SCORE	integer	2	SIDPERS SOLDIER	Skill Qualification Test Score
SSN charact 9 ASSIGNED Social Security Number ATTACHED BMPERSONN PERSONAL QUALS SERVICE UMR UNITDATA PTQUALV TTHEAPONQUAL text 9 LOHANDRET LOHOLDER BMPERSONN DRIVERS DRIVSSNX GTRPT PRP SEPRATS SIDPERS SOLDIER SOSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL STATSSNX SPECIAL SCORE MOSSCORE MOSSCORE SCHEDULER SOLDIERSCORE TTPTQUAL XEVSOLD1 XSOSCORE 3	SS	integer	2	T2406F V2406F	
DRIVERS DRIVSSNX GTRPT PRP SEPRATS SIDPERS SOLDIER SOSSNX SPECIAL STATSSNX STATUS UMR EVENTSOLDIER MOSSCORE MOSSCORE MOSSCORE2 SCHEDULER SOLDIERSCORE TTPTQUAL XEVSOLD1 XSOSCORE3	SSN	charact text	9	ASSIGNED ATTACHED BNPERSONN PERSONAL QUALS SERVICE UMR UNITDATA PTQUALV TTPTQUAL TTWEAPONQUAL LOHANDRET LOHOLDER	Social Security Number
				DRIVERS DRIVSSNX GTRPT PRP SEPRATS SIDPERS SOLDIER SOSSNX SPECIAL STATSSNX STATUS UMR EVENTSOLDIER MOSSCORE MOSSCORE2 SCHEDULER SOLDIERSCORE TTPTQUAL XEVSOLD1 XSOSCORE3	

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Field	Туре	Size	Table	Field Contents
STATSEQ	integer	2	DAILYRPT DAILYSTATUS STATCODES	
STATUS	charact	12	DAILYRPT DAILYSTATUS STATCODES	
	text	1 2 3 6 10 11	LOREPAIR T2406B TLOPHAND TLOPSTAT U2406F ULOPSTAT SOLDIERSCORE UNITSCORE UMR EVENT SCHEDULE2 SEPRATS UMR	
STATUS_DATE	charact	6	BNPERSONN DRIVERS	Date of personnel status
STOCK_NO	charact	14 15	G3WAGJ B2MAGJ E3WAGJ	National Stock Number
SUBEVENT	text	1	EVENT SCHEDULE2	Alpha character indicating an event attached to a "main" event.
SUBHAND	text	3	LOHAND LOHANDRET	unused

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Field	Туре	Size	Table	Field Contents
SUBLINE	charact	6	B2MAGJ E3WAGJ G3WAGJ OMTOE	
SUBUNIT	charact	2	UNITS	First two characters of SIDPERS position
				code - unused
SUSP_FAVOR	charact	1	SIDPERS SOLDIER	
TASK	text	12	EVENTSOLDIER EVENTSUMMARY EVENTTASK EVENTUNIT MOSSCORE MOSSCORE2 SCHEDULE2 SOLDIERSCORE TASK TASKSUMMARY UNITSCORE XEVTASK 1 XTASK1	Task Code
TD1	text	11	T2406B	
TD2	text	11	Т2406В	
TD3	text	11	T2406B	
TDY 1	integer	2	SIDPERS	
TDY2	integer	2	SIDPERS	

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Field	Туре	Size	Table	Field Contents	عد
TEMP	integer	2	PTQUALV TTPTQUAL		<b>1</b>
TERM_SERV	charact	1	SIDPERS	Term of Service	•••
	integer	0	ASSIGNED SOLDIER		
TEXT	charact	10		Description	
		12	CLEARANCE		<u>.</u>
		20	SCIISIAIS		
TF_BADGE	charact	5 6	SOLDIER UNITDATA	TACFIRE Badge Number	
	integer	2	ASSIGNED ATTACHED		<b></b>
TIDP	integer	4	HOLDRPARAX		
			XILODOCREG		
			X1LOHAND X1LOPLL		
			X2LOHAND		
			X4LOHAND		
			X5LOHAND DRIVSSNX		
			OMPOSX		
			SOPOSX		•
			SOSSNX STATSSNX		
			XARTEPARTEP		
			XEVENTI XEVSOLD1		3
			XEVTASK1		
			XSOSCORE 1		ز د_
			XSOSCORE2 XSOSCORE3		9
			XTASK1 XUNSCORE1		

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Field	Туре	Size	Table	Field Contents
Trdsssss, 64				
TIME	date	12	LODOCREG	Date and time record was entered
TITLE	text	50	MOS	
		100	MISSION	
		120	TASK	
TM	text	30	LONSN	Applicable Technical Manual
TOT	integer	2	U2406F	
TOTBREAK	integer	2	DAILYRPT	
		~	DRILISIRIUS	
TOT_PTS	integer	2	PTQUALV	
TRAIN	date	12	TASK	Lenght of time required for initial training.
TRAIN_STATUS	charact	5	DRIVERS	Training status
TSEQ	text	3	T2406F	
TTITLE	text	120	TASKSUMMARY	
TUPLE	integer	2	TLOPSTAT	
		4	ULOPSTAT	
TYPE	text	4	LOCOMP	COEI, BII, or AAL
		20	EVENT Eventsummary	
			SCHEDULE2	
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Field	Туре	Size	Table	Field Contents
UI	text	2	LOCOMP LOLINE TBNROLL TLOPHAND TLOPSTAT	Unit of issue
UIC	charact	10	B2MAGJ E3WAGJ EMTOE G3WAGJ TBNROLL UBNROLL X1EMTOE USERS	Unit Identification Code
	text	5	HANDRPT LOHAND LOHANDRET LOHOLDER LOPLL LOPLLRPT T2406B TLOPHAND TLOPSTAT X2LOHAND X3LOHAND	
ULTIMAT_UPC1	charact	5	SIDPERS	
UNIFORM	text	12	EVENT EVENTSUMMARY SCHEDULE2	Type of uniform to be worn - i.e FIELD, DUTY, PT.
UNIT	charact	10	EMTOE OMTOE SOLDIER UNITS MOSSCORE2 PTQUALV TTPTQUAL TTWEAPONQUAL	Unit name from Omtoe table
	text	10	LOHAND LOHANDRET	

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Field	Туре	Size	Table	Field Contents
		11	TLOPHAND SEPRATS EVENTSOLDIER EVENTSUMMARY EVENTTASK EVENTUNIT UNITSCORE XEVUNIT 1 MISSION	
UNITCODE	charact text	8 8	UNITS EVENTUNIT	
UNITMAN	charact	7	SOLDIERDD	Flag to indicate field is in Unit Manning report
UNITSEQ	integer	2	UMR	Sequence number of unit
UNIT_ISSUE	charact	2	B2MAGJ E3WAGJ G3WAGJ	
UNIT_NAME	charact	30	UMR	Name of section
UNIT_PRICE	float	4	G3WAGJ Vehtype Weaptype	
UPC	charact	5	ASSIGNED ATTACHED BATTERYCODES BNPERSONN DRIVERS GTRPT OMTOE SOLDIER STATUS UMR UNITDATA UNITS MOSSCORE MOSSCORE2	Unit Processing Code (UIC)

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Field	Туре	Size	Table	Field Contents		
UPC1	charact	5	SIDPERS			
UPC2	charact	5	SIDPERS			
USA	text	8 10	LOHANDRET TLOPHAND TLOPSTAT LOHAND TLOPSTAT			
USERNAME	charact	13	USERS			
VALUE	charact	1	SORTMPC			
VERIF_DT	charact	1 6	QUALS ASSIGNED SIDPERS SOLDIER	Year Verified Secondary MOS		
VERIF_SMOS	charact	1 2	ASSIGNED SIDPERS SOLDIER QUALS	Verification Indicator for Secondary MOS		
VSSSN	charact	1	SIDPERS			
WARRANT	integer	2	BNPERSONN	Flag to indicate warrant		
WARRANT_ASG	integer	2	UMR	Flag to indicate warrant and assigned		
WARRANT_AUT	integer	2	UMR	Flag to indicate warrant and authorized		
WARRENT	integer	2	BNPERSONN			

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Field	Туре	Size	Table	Field Contents
WEIGHT	integer	2	MISSION PTQUALV TASK TTPTQUAL	
ZEROBAL	integer	2	LOBNPLLRPT	

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#### APPENDIX D

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## TERMINALS AND COMMUNICATION LINES

The design and layout of ATUTMS terminal communication lines are documented in this appendix.

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## ATUTMS CRT CONNECTOR LOCATIONS

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CRT CONNECTOR	LOCATION
1	BATTALION CONFERENCE ROOM
2	BATTALION CONFERENCE ROOM
3	BATTALION CONFERENCE ROOM
4	BATTALION CONFERENCE ROOM
5	BATTALION CONFERENCE ROOM
6	BATTALION CONFERENCE ROOM
7	PAC
8	PAC
9	PAC
10	XO OFFICE
11	CSM OFFICE
12	CMDR OFFICE
13	HHB TRAINING ROOM
14	HHB SUPPLY ROOM
15	A BATTERY TRAINING ROOM
16	A BATTERY SUPPLY ROOM
17	B BATTERY TRAINING ROOM
18	B BATTERY SUPPLY ROOM
19	S <b>-</b> 2
20	S-3
21	C BATTERY TRAINING ROOM
22	C BATTERY SUPPLY ROOM
23	FIST
24	SVC BATTERY TRAINING ROOM
25	SVC BATTERY SUPPLY ROOM
26	BATTALION SUPPLY ROOM
27	MOTOR POOL
28	MOTOR POOL
29	MOTOR POOL C/SVC BATTERY
30	MOTOR POOL A/B BATTERY

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SITES 1-7	BUILDING 3212		
SITE #	LOCATION	CONNECTOR PIN	COLOR CODE
1	BN CONFERENCE ROOM	CRT A B C D	BRN BLK RED BLK
2	BN CONFERENCE	CRT A B C D	ORG BLK YEL BLK
3	BN CONFERENCE	CRT A B C D	GRN BLK BLU BLK
4	BN CONFERENCE	CRT A B C D	WHT BLK RED BRN
5	BN CONFERENCE ROOM	CRT A B C D	ORG RED YEL RED
6	BN CONFERENCE	CRT A B C D	GRN RED BLU RED
7	PAC	CRT A B C D	WHT RED BLU GRN
		COM A COM B	WHT GRN

NOTE: SITES 1-7 ARE CONNECTED TO THE ATUTMS SYSTEM INTERCONNECT PANEL BY A SINGLE 15 PAIR CABLE.

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SITES 8-12	2 BUILDING 3212					
SITE #	LOCATION	CONN	NECTOR	PIN	COLOR	CODE
8	PAC	CRT	A B C		BLK BRN RED	
		COM	A B		BLU GRN	
9	PAC	CRT	A B C D		ORG BLK YEL BLK	
		COM	A B		RED BLU	
10	XO OFFICE	CRT	A B C D		GRN BLK BLU BLK	
		COM	A B		RED GRN	
11	CSM OFFICE	CRT	A B C D		WHT BLK RED BRN	
		COM	A B		GRN WHT	
12	BN CMDR OFFICE	CRT	A B C D		ORG RED YEL RED	
		СОМ	A B		RED WHT	

NOTE: SITES 8-12 ARE CONNECTED TO THE ATUTMS SYSTEM INTERCONNECT PANEL BY A SINGLE 15 PAIR CABLE.

SITES 13	-14	BUILDING 3213	213		
SITE #	PAIR	CONNECTOR PIN	*COLOR CODE		
13	37	CRT A	WHT/BLU		
	38	B C	BLU/WHT RED/BLU		
	39	D COM A	BLU/RED ORG/WHT		
	40	B C	WHT/ORG GRN/WHT		
		D	WHT/GRN WHT/GRY		
		SPARE	GRY/WHT		
14	41	CRT A	WHT/BRN		
	42	BC	BLU/RED		
	43	COM A	ORG/WHT		
	44	B C	WHT/ORG GRN/WHT		
	45	D SPARE	WHT/GRN GRA/WHT		
		SPARE	WHT/GRY		
N/A	46-48	NOT USED			

* COLOR CODE OF CABLE FROM BOILER ROOM TO SINGLE CHANNEL BOX (STRIPE/BASE).

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SITES 15	-20	BUILDING 3214	
SITE #	PAIR	CONNECTOR PIN	COLOR CODE
15	1	CRT A B	SAME AS SITE 14
	2	C	
	3	COM A	
	4	C	
		D SPARE SPARE	
16	5	CRT A	SAME AS SITE 14
	6	B C	
	7	COM A	
	8	C	
		SPARE SPARE	
17	9	CRT A	SAME AS SITE 14
	10	C	
	11		
	12	B C	
		D SPARE SPARE	
18	13	CRT A	SAME AS SITE 14
	14	B C	
	15	D COM A	
	16	B C	
		SPARE SPARE	
19	17	CRT A B	SAME AS SITE 14

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# BUILDING 3214 CONTINUED

	19	COM A
		В
	20	С
		D
		SPARE
		SPARE
20	21	CRT A
		В
	22	С
		D
	23	COM A
	-	В
	24	С
		D
		SPARE
		SPARE
N/A	25-36	NOT USED

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SAME AS SITE 14

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SITES 21	-26	BUILDING 3215	
SITE #	PAIR	CONNECTOR PIN	COLOR CODE
21	51	CRT A B	SAME AS SITE 14
	52	C	
	53	COM A B	
	54	C D	
		SPARE SPARE	
22	67	CRT A	SAME AS SITE 14
	68	C	
	69	COM A B	
	70	C	
		SPARE SPARE	
23	59	CRT A B	SAME AS SITE 14
	60	C	
	61		
	62	C	
		SPARE SPARE	
24	71	CRT A	SAME AS SITE 14
	72	C	
	73		
	74	C	
		SPARE SPARE	
25	55	CRT A	SAME AS SITE 14

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				В
	56			С
				D
	57		COM	A
BUILDING	3215	CONTIN	IUED	
				в
	58			С
				D
			SPA	RE
			SPA	RE
26	63		CRT	A
				В
	64			С
				Ð
	65		COM	A
				В
	66			C
				D
			SPA	RE
			SPAI	RE
N/A	75-8	6	NOT	USED

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SAME AS SITE 14

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SITES 27-28		BUILDING 3227				
SITE #	PAIR	CON	NECTOR	PIN	COLOR	CODE
N/A	87-90	NOT	USED			
27	91	CRT	A			
	92		B C			
	93	COM	A B			
	94		B C D			
28	95	CRT	A			
	96		C D			
30	87	CRT	A			
	88		B C D			
29	89	CRT	A			
	90		C D			
N/A	91-100	NOT	USED			

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