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INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)
AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES(U)
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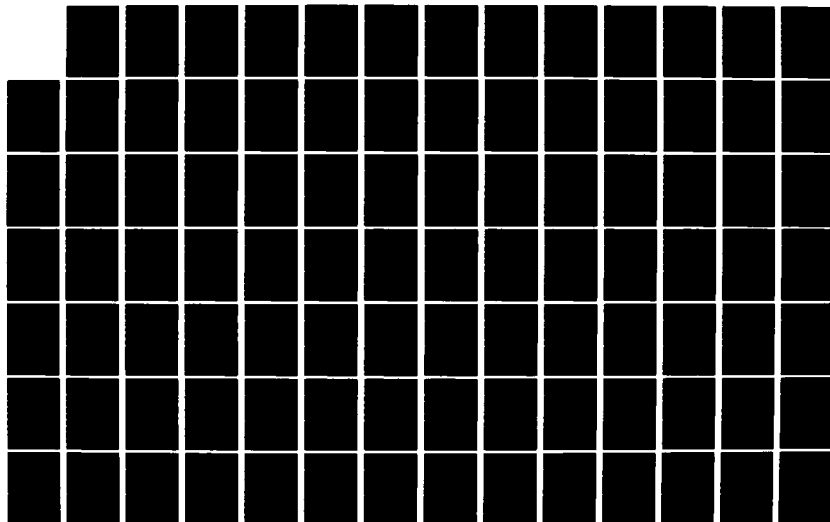
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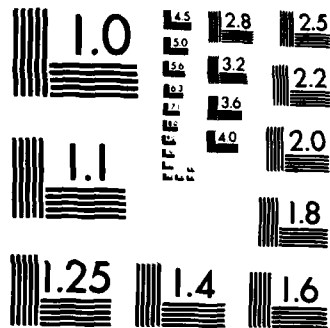
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INTACS AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES

Contract DAAK21-79-C-0161

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Prepared for:

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FOREWORD

The INTACS Transition and Management Plan defined the Automated System Management Information (ASMI) concept. The ASMI process provides the operating guidelines, as well as the implementing and operating procedures within the Systems Integration Management Office (SIMO) by which all commands and agencies concerned with INTACS Transition will receive timely reports and schedules. In order to implement the ASMI concept, the procedures within SIMO as well as the interfaces with external commands and agencies must be defined and put into a standard operating procedure.

The INTACS Automated Systems Management Information Processes was initiated to provide the link between the Automated Transition Plan and the implementers of this plan. Through this system, users will receive basic packages of transition reports and schedules on a periodic basis and may request audit and reference information as required. ←

The INTACS Automated System Management Information Processes was prepared by Martin Marietta Corporation for the U.S. Army Signal Center, Directorate of Combat Developments in accordance with the provisions of Contract DAAK21-79-C-0161.



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1.0 INTRODUCTION/SUMMARY

1.1 TRANSITION PLANNING

The Systems Integration Management Office (SIMO) approach to transition planning supports intensive management of INTACS, requires valid inputs, and is automated to provide timely outputs.

Figure 1-1 shows the SIMO transition planning approach which accepts recurring inputs and results in continuously updated output Transition Plan. While the INTACS progresses from current to future tactical communications systems, the details of each step reside in the Automated Transition Management System and data base.

SIMO develops and drives the Automated Transition Plan. Detailed equipment/assembly lists and a series of five (5) network force models depict the transition to future systems. Major parts of the Plan are annual equipment acquisition and distribution to specific units of the force. Planned expansion will incorporate training impacts considerations and personnel availability in support of equipment according to fielding schedules.

The Plan provides details to managers and project officers who are engaged in implementing plans and actions. Then, the Automated Transition Management System is able to electronically read the status of these implementing plans and actions. Planned specific forces, TOE or BOI, expected budget and cost and the current status of equipments in the field are the major related items.

The point of departure (Baseline) for any working and steering groups who are considering changes to current or to future tactical communications should be the current set of Transition Plans as provided by SIMO. When approved, the changes made by the working and steering groups appear as implementing plans or actions, and result in changes to some or all of the inputs to SIMO. These inputs and the outputs from SIMO are planned to be distributed by an automated system within HQDA.

1.2 ARCHITECTURE PROCESSES (Figure 1-2)

Within SIMO, the INTACS Architecture Integration Function drives the Transition Planning and Implementation Functions. Changes to Architecture are handled in the steps: Changes Definition, Impact Evaluation and Incorporation.

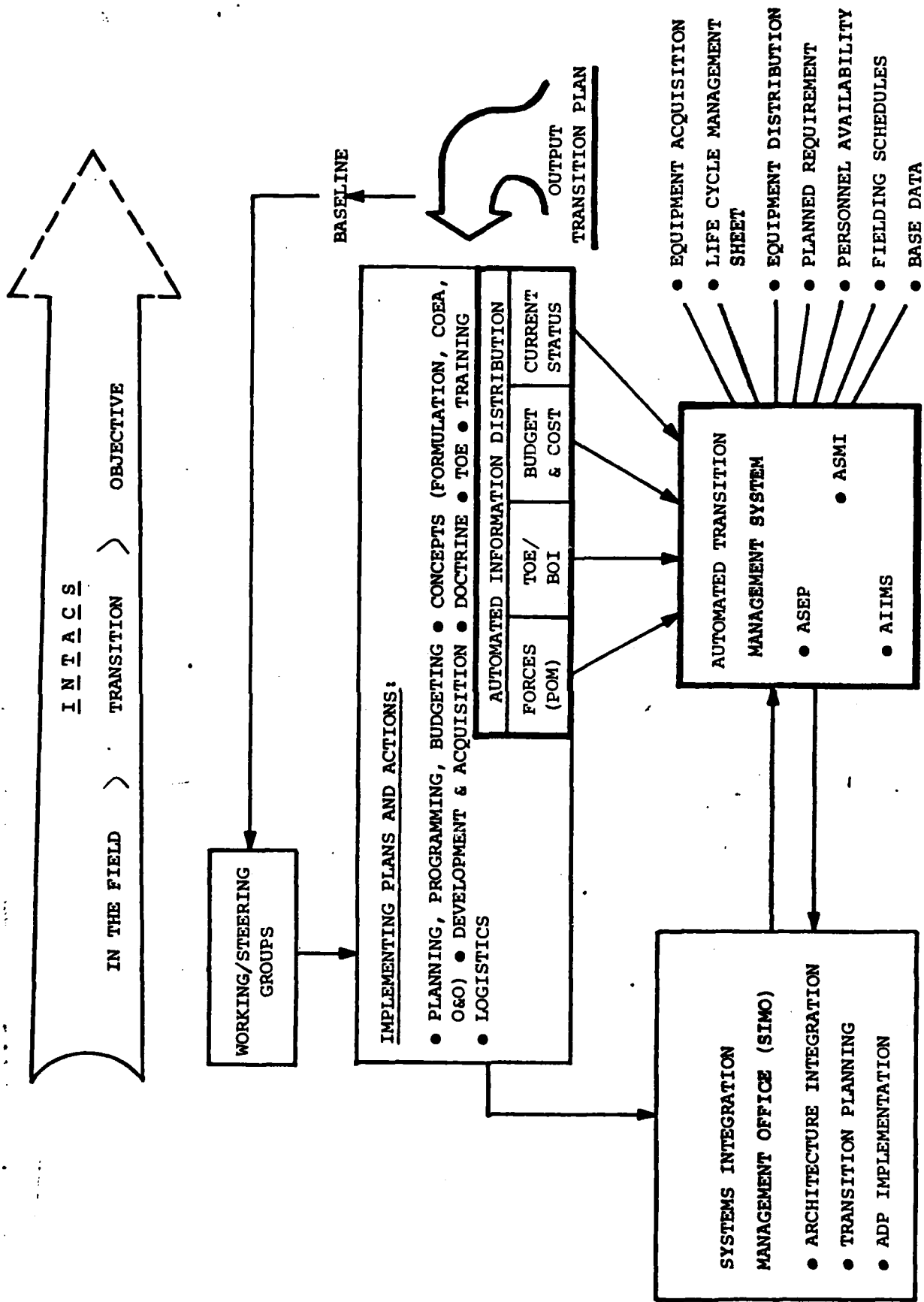


FIGURE 1-1 TRANSITION PLANNING

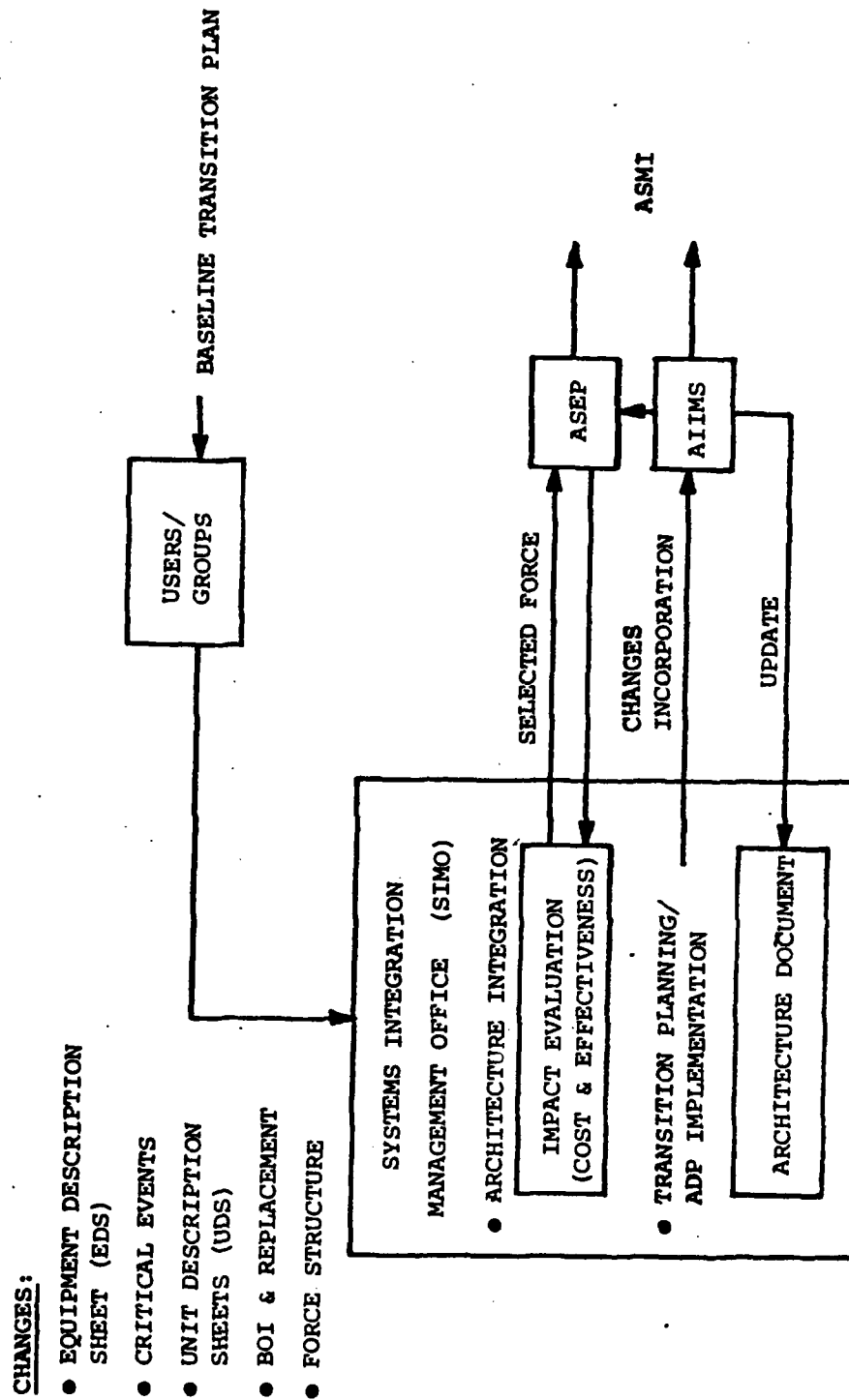


Figure 1-2 ARCHITECTURE CHANGE PROCESSES

Listed on Figure 1-2 are the essential inputs that are necessary for defining changes to the Architecture and Transition Plan. SIMO evaluates the impact on a selected force of significant conceptual and implementation changes using automated system evaluation and implementation programs. After approval, changes are incorporated into the data base and into the Architecture document.

1.3 ASMI CONCEPT (Figure 1-3)

This Automated System Management Information (ASMI) Process provides the operating guidelines, as well as the implementing and operating procedures, to establish the system within SIMO. This system will be the means through which all commands and agencies concerned with the INTACS Transition will receive timely reports and schedules. Update inputs through the same automated system will further insure that reports and schedules information is the latest available and that all users are working from a common data base.

ASMI is interwoven with the management functions and structure of SIMO so that it is inherently a part of the system (see Figure 1-3). Within this context, it is an automated tool so that the managers involved can start, modify and stop transitional processes in an effective manner. It also provides a means of control of the process whereby excursions or modifications of the transition program can be studied and compared without any disruptive effects on projects in progress.

1.4 ASMI PROCEDURES

ASMI is designed to provide information to managers that will assist them in performing their roles throughout the transition. Specific reports are to be generated that show status at any period, overall and specific requirements into the future and provide a means for comparing actual progress versus planned. These reports establish a management means for equipment planning, procurement and distribution as well as defining training requirements and providing system evaluation information. The ASMI reports and schedules are provided to the users on a periodic and demand basis and an automated log is kept to insure delivery as required. Local users are

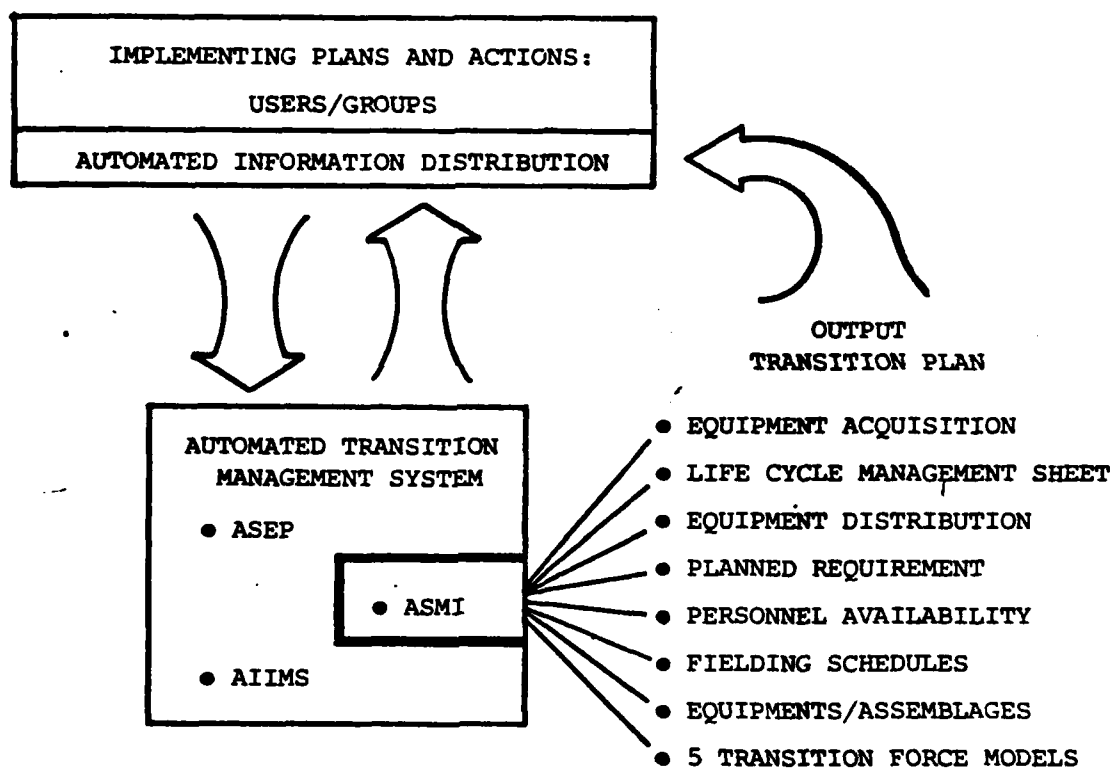


Figure 1-3 ASMI CONCEPT

provided over-the-counter service while remote users receive service via electronic mail by a computer/communications network (Figure 1-4).

1.5 ASMI REFERENCE HANDBOOK

This handbook provides a ready reference for SIMO on the functions and contents of ASMI. Master program lists, user lists, report schedules and program status are contained therein and are kept current through automated update.

The remaining sections of this report expand the Architecture and the ASMI processes of SIMO that are summarized in this first section.

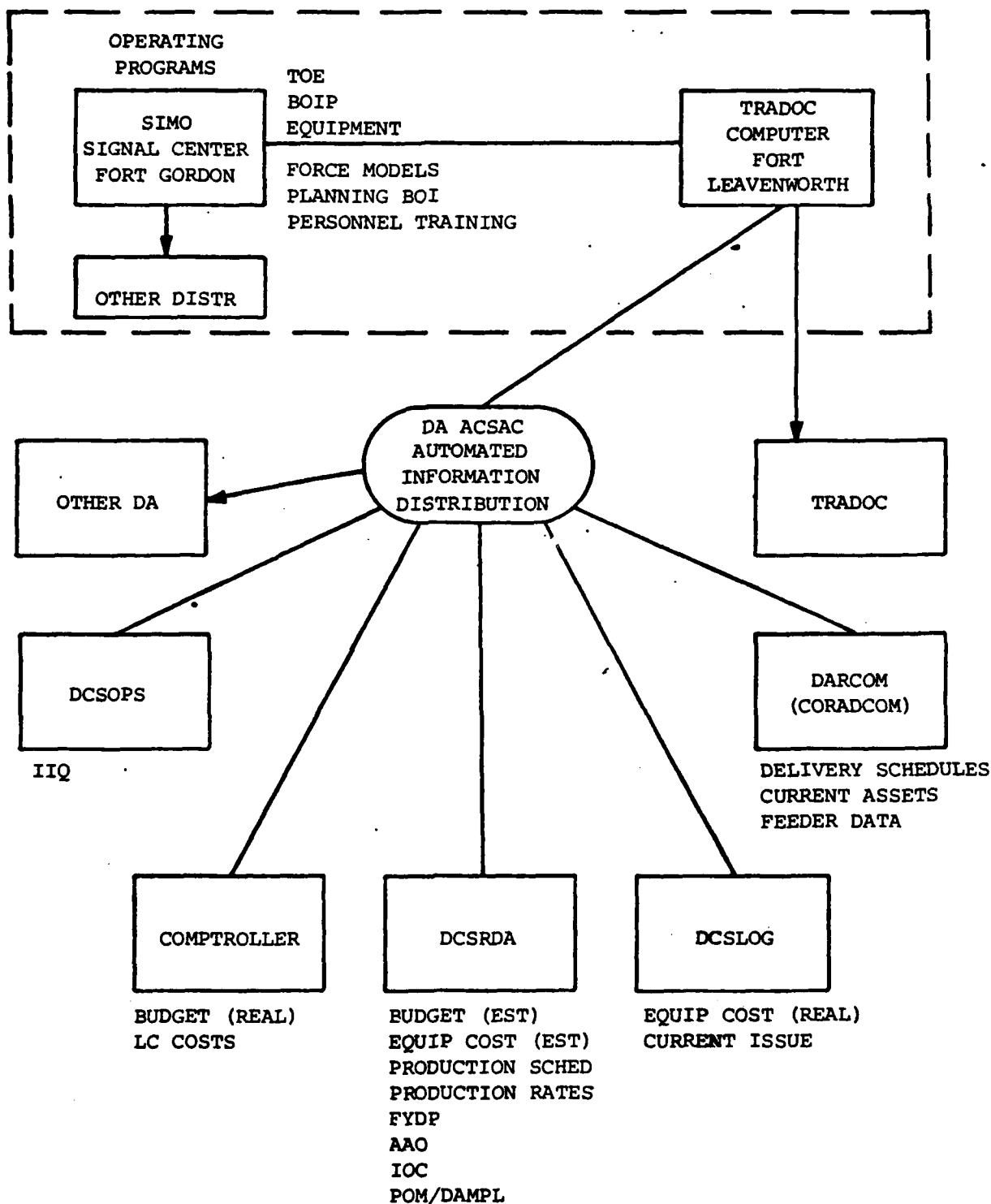


Figure 1-4 SIMO INPUT, OUTPUT DISTRIBUTION SYSTEM

2.0 ARCHITECTURE CHANGE PROCESSES

2.1 PROCESS FOR DEFINITION OF CHANGES

Changes to INTACS Architecture are defined by converting implementing plans/actions such as computer records, approved documents and consultation with the working group into the inputs required to update document and implementation planning data base.

Working groups and action officers in tactical communications develop plans and insert records into the TRADOC Automated Force Development centralized computer files. When these records are available in that data base, changes to Architecture can be defined through computer-assisted analysis. Mission Area Analysis, O&O Concept and other documents also support changes, and where ambiguity exists, direct consultation with the working/action officer is employed. Changes incurred from Division-86 TOE series S,K,A and Mission Area Analysis are summarized on Table 2-I as examples of implementing plans and actions which impact on Architecture. These process for Architecture changes definition using automated and manual analysis programs and the form of required input are listed also.

The USASC&FG portion of Division-86 TOE series in the centralized computer files are read electronically utilizing TRADOC TOE header list program TEP 32. Review of the TEP 32 printout reveals that implementation of the Division-86 TOE series will cause restructure of the current AIM Division into a Heavy Division structure for Armor or Mechanized Infantry and a Light Division structure for Infantry. The next step determines what impact this restructure has on personnel and equipment.

Using today's current "H" series AIM Division TOE as the baseline, TRADOC Evaluation Program TEP 19 electronically reads the data base and provides output prints that compare each Division-86 TOE in each series with the baseline. These comparisons define changes in personnel and equipment that are planned to the AIM Division by 1986. The input to be done manually and the form of input required to describe the change in Architecture is listed for each type of major change. For example, an increase of 99 O&O personnel in the Division Signal Battalion for the "S" series Heavy Division is shown. This personnel increase is entered into the Architecture by manual update of the organizational diagram page of the Unit Description Sheet. In addition, equipment with an IOC of 1986 has been added to the Division Signal Battalion and the issue basis defined.

TABLE 2-1

ARCHITECTURE CHANGES DEFINITION SUMMARY

TOE SERIES	VARIATION	MAJOR CHANGE	PROCESS		ARCHITECTURE INPUT
			AUTOMATED	MANUAL	
H DIV-86 S	610	TODAY'S AIM DIVISIONS BASELINE			
		RESTRUCTURE TO HEAVY DIVISION ARMOR OR MECH INFANTRY	TEP 32	REVIEW	
		-O&S PERSONNEL INCREASE	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1986 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
S	620	RESTRUCTURE TO LIGHT DIVISION INFANTRY	TEP 32	REVIEW	
		-O&S PERSONNEL REDUCTION	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1986 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
		INCREASE O&S PERSONNEL INCREASE QTY TRC-145, GRC-142, VRC-46	TEP 19 TEP 19	ORGANIZATION DIAGRAM DESCRIBE EQUIPMENT & COMPONENTS DEFINE ISSUE BASIS	UDS EDS BOI
A	100	RESTRUCTURE TO HEAVY & LIGHT DIVISION	TEP 32		
		-O&S PERSONNEL INCREASE	TEP 19	ORGANIZATION DIAGRAM	UDS
		-IOC 1983 EQUIPMENT ADDED	TEP 19	DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
TACTICAL COMMUNICATIONS MISSION AREA ANALYSIS					
		PLRS/JTIDS HYBRID		REVIEW	CONCEPT SUMMARY
		-O&S PERSONNEL INCREASE		SIG BN ORGANIZATION DIAGRAM	UDS
		-EARLY IOC 1986 EQUIPMENT ADDED		DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI
		IMPROVED HF		DESCRIBE EQUIPMENT & COMPONENTS, DEFINE ISSUE BASIS	EDS BOI

This equipment with a list of all its components is manually input into the Architecture in the form of Equipment Description Sheets. Definition of added equipment issue basis is used as input to update Basis of Issue information for all equipment in the data base and for major equipment in Architecture. The changes in TOE Series K and A which reflect plans prior to 1986 are defined in a similar manner as listed on Table 2-I.

Manual review of the Mission Area Analysis documents identify O&O personnel and equipments that will be fielded during the same time period covered by the Division-86 TOE series S. However, these PLRS/JTIDS Hybrid and improved HF equipments did not appear in the TEP 19 TOE comparisons. Since ambiguity exists between Division-86 TOE series computer files and Mission Area Analysis documents, direct consultations between SIMO and the working groups that originated the records is required. Upon resolution of the ambiguity, it is assumed the centralized computer files will be updated to reflect the current information. The MAA also recommended development of doctrine for a Division Area Multichannel System which is already in the Architecture.

There is an indication that the data contained in the Division-86 TOE series S, K, and A is of questionable value and should eventually be put into historical computer files. The process for change definition described here is valid, but will require manual revision unless accurate TOE records are inserted into the centralized computer files. To realize the full value of automated analysis programs for timely and accurate update of Architecture requires that centralized computer files be kept current.

The next section describes how automation supports the evaluation of impact of these or other changes in Architecture.

2.2 IMPACT EVALUATION

Application of the evaluation process results in quantitative cost and effectiveness data which details the impacts of changes to the architecture. This data is useful as basis for: assessment of impacts, assuring system integrity, selection/justification of alternatives and decision.

The process focuses on comparisons of alternative equipments and O&O personnel in a selected force. As shown in Figure 2-1, the Automated System Evaluation Program (ASEP) operates with AIIMS and TOE analysis programs, and allows manual selection of small to large force (military units) for modeling.

Comparisons of equipments costs along with operations and support personnel pay and allowance cost are provided by the TOE analysis programs (TEP) which read the automated TOE Series and equipment files. These three costs are in the primary

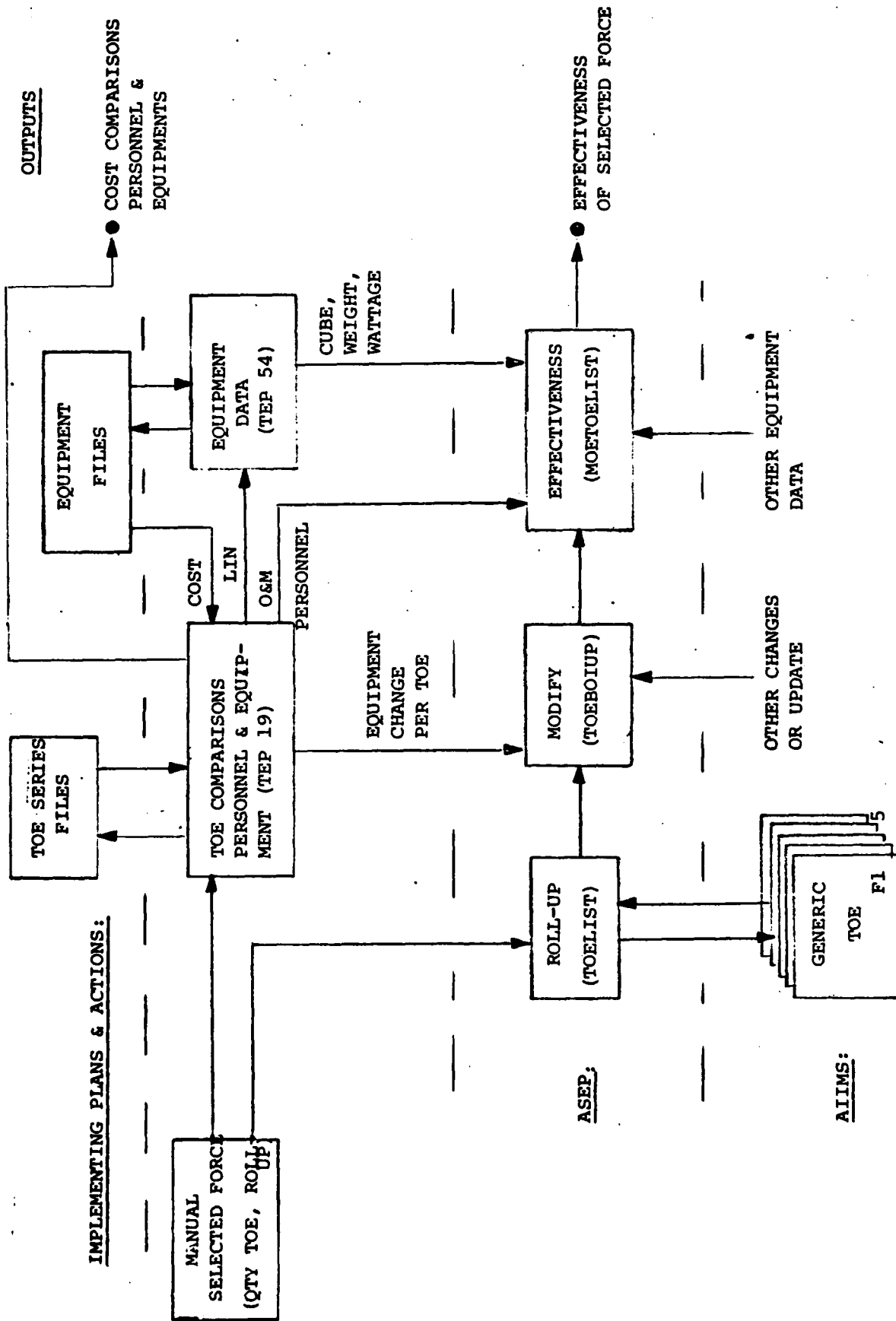


Figure 2-1 AUTOMATED ARCHITECTURE IMPACT EVALUATION

drivers of life cycle costs.

ASEP pulls from AIIMS a base Force Model which reflects the transition phase of interest, and then incorporate alternative equipments changes as delineated by the current and planning TOE Series. Comparisons of quantitative measures of effectiveness, such as cube (volume), weight, power, reliability, maintainability standardization and number of support personnel, are then provided for analysis. The computer outputs of the Architecture Impact Evaluation Process are illustrated and described in Appendix B.

Eventually, the ASEP is planned to be expanded to include total life cycle costs and automated graphs as shown on Figure 2-2.

The next section describes how the Automated Transition Management System aids the incorporation of changes into the Architecture and Transition Plan.

2.3 CHANGE INCORPORATION PROCESS

The Automated Transition Management System is used first as a tool to incorporate changes to Architecture, and then Architecture drives the Transition Plan assuring complete consistency and rapid update. The loop is close to a Concept and Data Base Summary Table which reflects and notifies the changes that are in the data base.

The INTACS Architecture is flexible to changes in requirements, concepts, equipments, and force structure. Personnel in SIMO will incorporate approved changes easily, since the documentation is directly supported by Automated System Management Information (ASMI). In the beginning, the Concept and Data Base Summary on Table 2-II depicts introduced - equipments and support personnel of the Communications Concept as they change in five stages of transition at low to high echelons. The format for the automated Concept and Data Base Summary is shown on Table 2-III.

The three steps of the Architecture Change Incorporation Process are summarized on Figure 2-3 along with the relationships with ASMI. As a result of a significant change, the Concept and Data Base Summary Table is automatically updated to reflect the essence of the change in time-phasing, equipments and personnel. This Table accurately depicts the Concept as actually embodied within the Automated Transition Management System. Procedures for architecture changes in Transition Concept, Communication Support Plan and Implementation guidelines chapters of INTACS Architecture follow:

Step 1:

Input to AIIMS each added equipment described in the form of EDS to be located

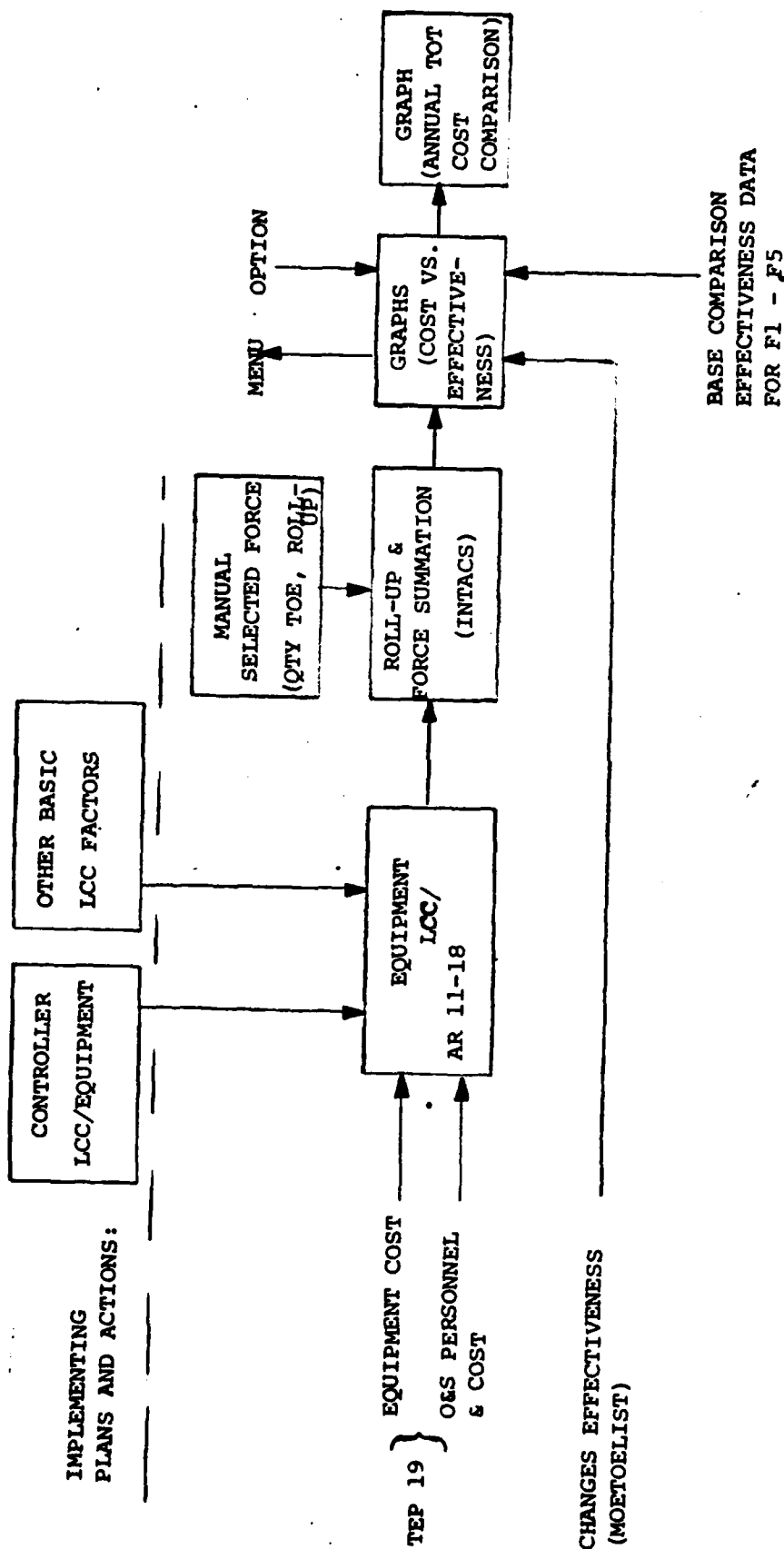


Figure 2-2 EXPANDED ASEP¹

¹Appendix B to Management Plan Study

TABLE 2-II Concept and Data Base Summary

	<u>CURRENT</u>	<u>IMPROVED</u> <u>ATACS</u>	<u>HYBRID TRANSITIONAL</u> <u>EARLY</u>	<u>LATE (DIG)</u>	<u>OBJECTIVE</u>
SINGLE CHANNEL RADIO	VRC-12 (224)				
FACSIMILE				SINGARS	
OLS PERSONNEL	53	GXC-7A		UXC-4	44
		<u>DIVISION</u>			
MULTIPLEX	TD-660 (66)	TD-976,1065,1069	DGM (LIM)	DGM (FULL)	
SWITCH	TTC-29 (11) TTC-23 (3) SB-86 (3) SB-22 (14)	TTC-41 SB-3614			
RWI/MOBILE TEL.	MANUAL RWI, GSA-7 (6)		BNRID	SDNRIU	INTEGRATED MSE (MST) DA TDMA
TACSATCOM		FDM TSC-85/93			351
COMM CONTROL	MSC-31 (2) TSC-76 (7)	MSC-25 (PIP) MSC-32 (PIP)		CSCE	
OLS PERSONNEL	491				
		<u>CORPS</u>			
MULTIPLEX	TD-660 (1040)	TD-976 TD-1065 TD-1069	DGM (LIMITED)	DGM (FULL)	
SWITCH	MTC-1 (18)	TTC-38	TTC-39 TYC-39	TTC-42 SB-3865 MTCC	
TACSATCOM		FDM, TSC-85/93			DA TDMA
COMM CONTROL	TSC-76 (2) MSC-25 (7) MSC-31 (11) MSC-32 (22)	MSC-25 PIP MSC-32 PIP	CNCE, TSO-111	CSCE, TYQ-16	CSPE
OLS PERSONNEL	4432				

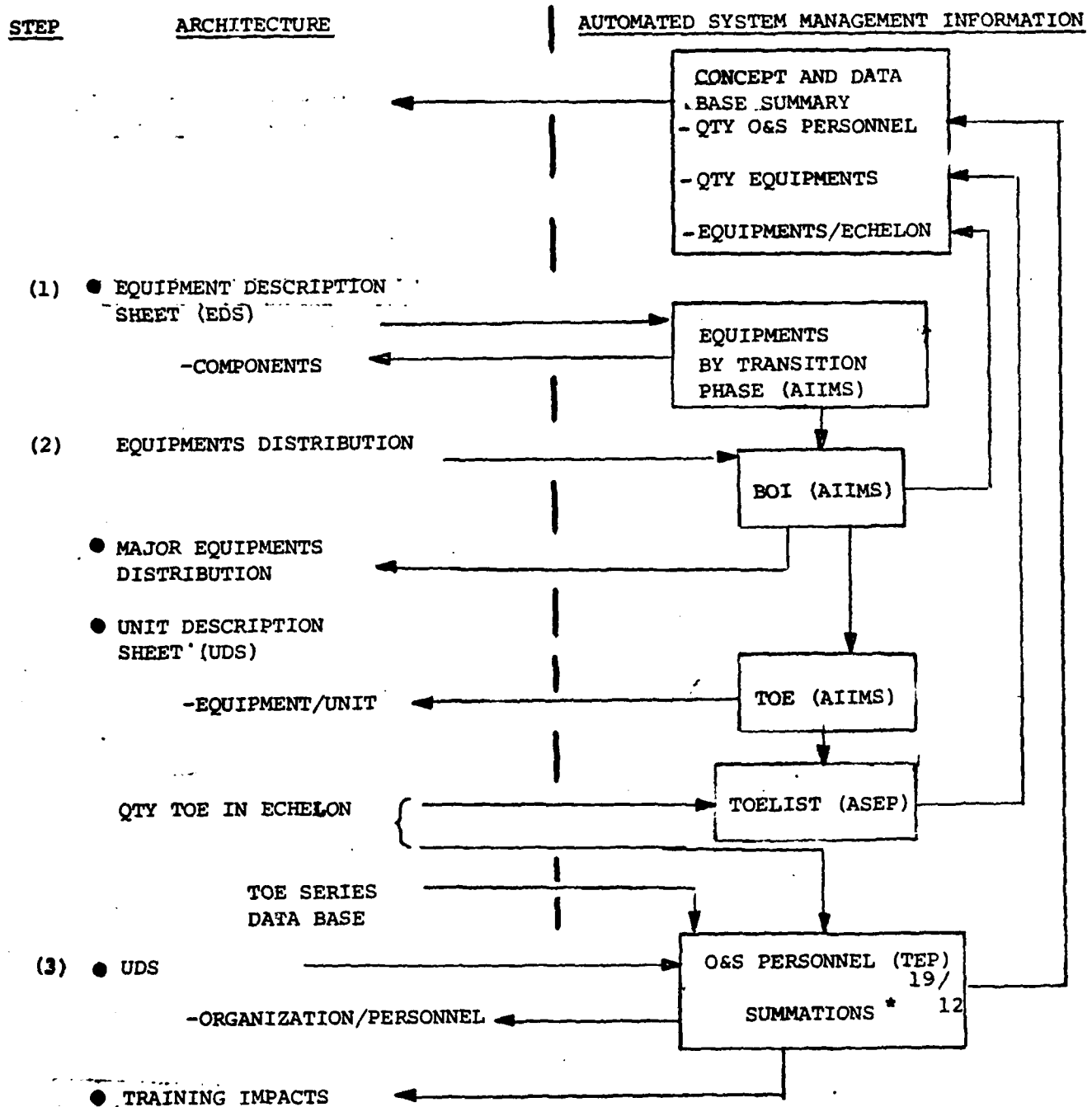
NOTE: Where equipments appear under a Transition period, this indicates the phase when equipment is scheduled to be fielded. It does not necessarily indicate that all equipment already in the field is replaced. Refer to Chapter 2, Implementation Guidelines, for detailed Transition Plans Force Structure.

TABLE	2-III Automated Concept and Data Base Summary Format	IMPROVED ATACS	HYBRID TRANSITIONAL EARLY	LATE (DIO)
-------	--	-------------------	------------------------------	------------

SINGLE CH.	RADIO	CURRENT	IMPROVED ATACS		SEPARATE BRIGADE	EARLY HYBRID TRANSITIONAL	LATE (Dis)	OBJECTIVE
			XXXX	XXXX				
FACSIMILE	VRC-12	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	SINGARS	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	UXC-4	(9999)
O/S PERSONNEL	999 999 9999	99999	0	WO	ENL TOTAL	999 999 9999	999 999 9999	99999 99999 99999
	0	WO	ENL	TOTAL	0	WO	ENL	TOTAL
MULTIPLEX	TD-660	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	DCM (FULL)	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
SWITCH	TTC-29	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
	TTC-23	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
RPT/MOBILE TEL.	SB-86	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
	SB-32	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
TACSATCOM	RWT, GSA-7	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	SDNRH	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
COM CONTROL	MSC-31	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
	TSC-76	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
O/S PERSONNEL	999 999 9999	99999	0	WO	ENL TOTAL	999 999 9999	999 999 9999	99999 99999 99999
	0	WO	ENL	TOTAL	0	WO	ENL	TOTAL
MULTIPLEX	TD-660	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	DCM (LIMITED)	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
SWITCH	TTC-38	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	TTC-42	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	SB-3865	(9999)
TACSATCOM	RWT, GSA-7	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	SDNRH	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
COM CONTROL	MSC-31	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
	TSC-76	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
O/S PERSONNEL	999 999 9999	99999	0	WO	ENL TOTAL	999 999 9999	999 999 9999	99999 99999 99999
	0	WO	ENL	TOTAL	0	WO	ENL	TOTAL
MULTIPLEX	TD-660	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	DCM (LIMITED)	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
SWITCH	TTC-38	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	TTC-42	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	SB-3865	(9999)
TACSATCOM	RWT, GSA-7	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	SDNRH	(9999)
	XXXXXX	XXXXXX	(9999)	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
COM CONTROL	MSC-31	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
	TSC-76	(9999)	XXXXXX	XXXXXX	(9999)	XXXXXX	XXXXXX	(9999)
O/S PERSONNEL	999 999 9999	99999	0	WO	ENL TOTAL	999 999 9999	999 999 9999	99999 99999 99999
	0	WO	ENL	TOTAL	0	WO	ENL	TOTAL

NOTES:

Figure 2-3 AUTOMATED CHANGE INCORPORATION PROCESS



* PLANNED

in the Communications Support Plan Chapter of Architecture. Delete the replaced equipments on AIIMS lists. An equipment assemblage component print-out is returned as automated support of the Architecture document. Based on the given critical-event, developmental milestones and IOC, the new equipments must be introduced in one of five force Models which places them in a particular time frame. The next step involves who gets the equipment and what it replaces.

Step 2:

Read-in the distribution of the added equipments, and delete the replaced equipments in the BOI-file of AIIMS for the particular Force Model affected. For the Communications Support Plan Chapter, a print-out is returned to show Major Equipment Distribution. The BOI-file serves as the basis for adding or deleting significant equipments per echelon shown on the Concept and Data Base Summary Table. Also, the TOE-file is automatically updated in AIIMS, and a print-out is the updated equipment page of the Unit Description Sheet in the Communications Support Plan Chapter.

An input definition of the quantity and type units in each echelon and type equipments of interest to the ASEP program. TOELIST, results in the automated summation of each type equipment in each echelon, which is entered in the Concept and Data Base Summary Table.

Step 3:

Provide the TOE organization diagram changes and signal personnel count in numbers of Officer (OFF), Warrant Officer (WO), Enlisted (ENL), as on the first page of the UDS in the Communication Support Plan Chapter. If the Changes are available in a TOE Series file, the Comparison Program, TEP 19, provides a listing of personnel by Grade and by MOS in each TOE. Summation results in totals by grade and totals by echelon. These summations of communications support personnel are used for update in the Training Impacts Section of the Communications Support Plan Chapter and in the Concept and Data Base Summary Table.

While the TEP programs are effective, considerable time-consuming manual manipulation of data is required to arrive at the personnel strength levels. There is a need to develop a program which allows SIMO to directly access the TRADOC automated TOE personnel files at Ft. Leavenworth. A personnel program developed under the INTACS Study was operational in 1975. This program summarized communications support personnel in eight categories of MOS across a selected force model. This personnel program, updated and modified to sum by Officer, Warrant Officer, and

Enlisted personnel categories is described in Appendix C. Re-establishment of this program, as modified, will support the automated update of the INTACS architecture.

3.0 AUTOMATED SYSTEM MANAGEMENT INFORMATION (ASMI) REPORTING*

3.1 REPORTS

Reporting of System Management Information encompasses all the outputs of the Automated Transition Management System, including Architecture Update and System Evaluation Data, Acquisition and Distribution Implementation Schedules, Summaries and Base Data. A basic package of five reports as listed on Table 3-I is anticipated to be on automatic distribution four times a year to the specific agencies listed. In addition, SIMO will distribute baseline and evaluation data reports prior to working, Steering Committee and special meetings where exceptions to the plan are to be resolved. Other reports, listed in Appendix A are for reference and/or audit purposes and will be distributed upon request.

3.2 SCHEDULE

Distribution of inputs and outputs by automated means is a key factor for assuring delivery of data in time to support significant events. Figure 3-1 shows the periodic schedule for the electronic distribution of the inputs required by SIMO and the outputs at MILDEP levels in support of the four Planning, Programming, Budgeting System (PPBS) events listed. Table 3-II describes the four supporting events.

The System Integration and Architecture Element of SIMO validates all of the automated reports provided by the ADP Implementation Element via the Automated Transition Management System. For the reports on automatic distribution, the Implementation Element has the responsibility of assuring timeliness and notification of the proper individuals to provide validated information in the reports.

3.3 MANAGEMENT APPROACH

The SIMO management approach for the provision of Automated System Management Information which supports intensive management of the INTACS transition is shown in Figure 3-2 and is summarized as follows:

1. As the INTACS transitions from current to the objective system, the details of implementation reside in an extensive data base. With so many factors involved, it is essential that the data base and distribution concept be automated.
2. Recurring, validated inputs are provided by those agencies engaged in

* Also appears in paragraph 2.5.4 of SIMO Handbook.

TABLE 3-I

BASIC REPORT PACKAGE DISTRIBUTION

	<u>PROGRAM</u>	<u>TITLE</u>
BASIC REPORT PACKAGE	AIIMSP0006	EQUIPMENT QUANTITIES (ACQUISITION)
	AIIMSP0022	LIFE CYCLE MANAGEMENT SHEETS
	AIIMSP0123	EQUIPMENT DISTRIBUTION
	AIIMSP0048	GENERIC BOI FORCE MODEL F-5
	AIIMSP0097	EQUIPMENT SUMMARY FORCE MODEL F-5
AUTOMATIC DISTRIBUTION	DA/ACSAC	DA/DCSOPS
	DA/DCSLOG	DA/DCSRDA
	DA/ACSI	OCSA/MISD
	DARCOM	TRADOC
	USACC	FORSCOM
	USASC	TRI-TAC
		DA/DCSPER
		DA/OCA
		ASA/FM
		INSCOM
		CECOM
		TSM

Notes:

1. Basic Report Package, above, distributed automatically to users in January, April, June and August.
2. Other reports, on attached Appendix A, Users Master List, are for reference and audit purposes and will be delivered upon request.

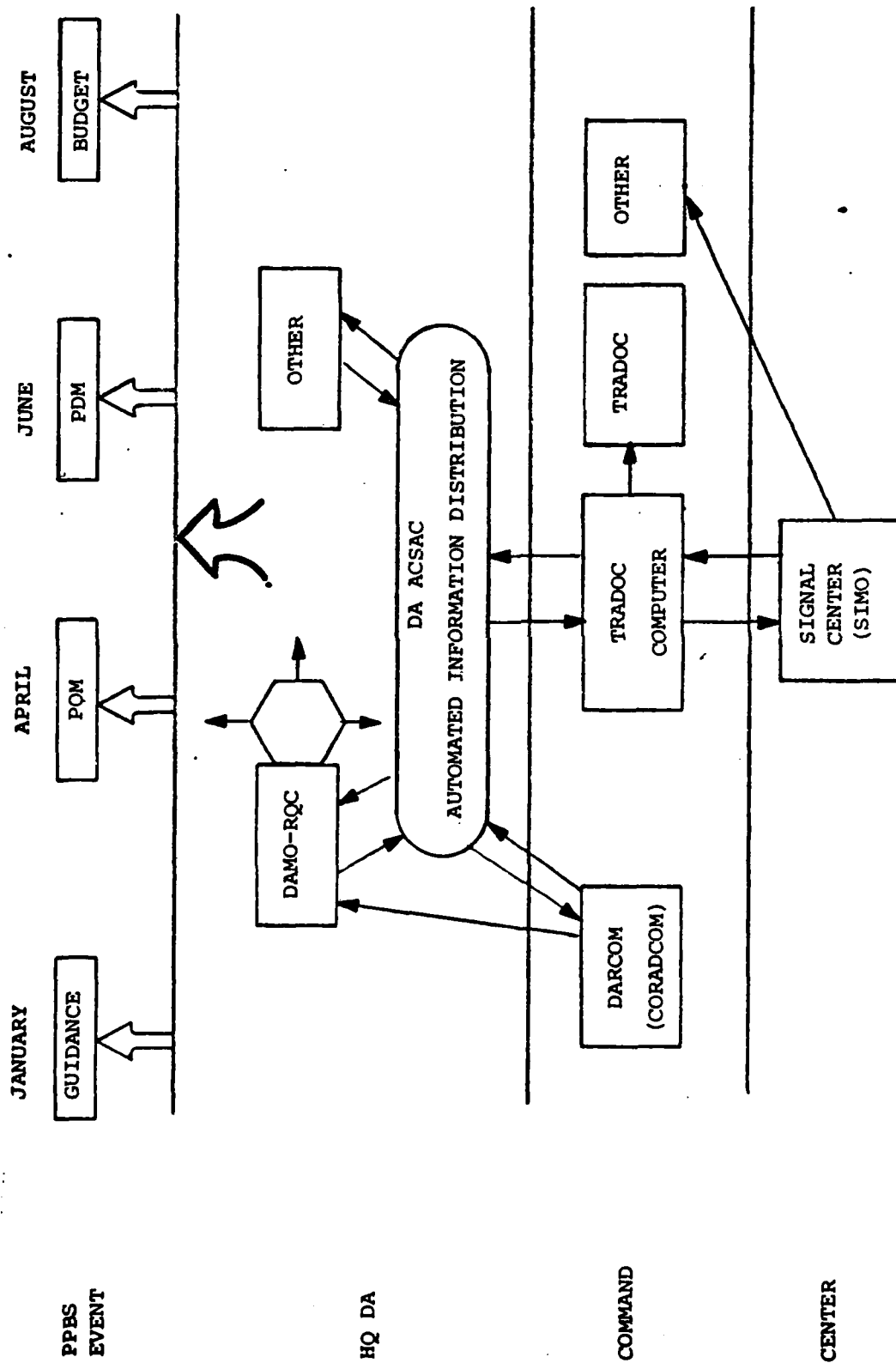


FIGURE 3-1 DISTRIBUTION DATA SCHEDULE ESTIMATE

TABLE 3-II

SCHEDULE EVENTS

JANUARY	SIMO receives set of inputs including priorities and force structure from DAMO-RQC and delivery schedules, current assets and feeder data from DARCOM. SIMO submits distribution data for basis information to support review and comment of SecDef Consolidated Guidance to Planning Programming Budgeting System (PPBS).
APRIL	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS Program Objective Memorandum (POM) and Five Year Defense Plan (FYDP) update.
JUNE	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS Program Decision Memoranda (PDM).
AUGUST	SIMO receives set of inputs. SIMO submits distribution data for basis information to support PPBS budget estimates and FYDP update.

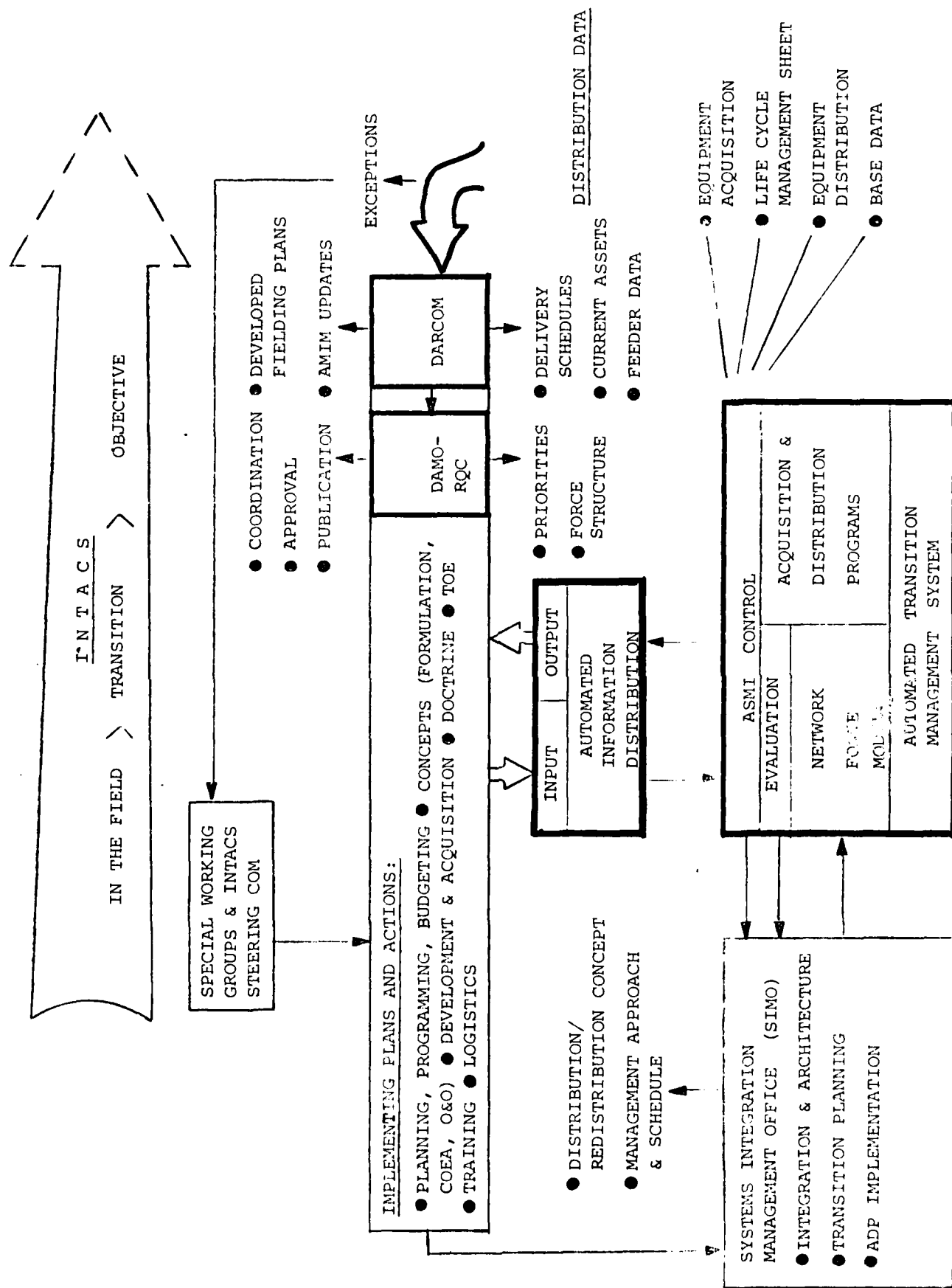


Figure 3-2 DISTRIBUTION PLANNING MANAGEMENT APPROACH

tactical communications plans and actions. The loop is closed by returning output distribution data to the same agencies. DARCOM assists TRADOC in the distribution planning effort by providing delivery schedule data, current assets and other feeder data. Based on the distribution data provided by SIMO, DARCOM develops materiel fielding plans and provides periodic AMIM updates. DAMO-RQC provides guidance pertaining to distribution priorities and force structure. All distribution/redistribution concepts are forwarded to DAMO-RQC by DARCOM for coordination, approval and publication as final distribution plans.

3. Distribution of both inputs and outputs to users is planned to be automated within DA ACSAC to assure timely receipt of basic input data and responsive delivery of output data.

4. SIMO develops and drives the Automated Transition Plan which includes base information, acquisition and distribution data.

5. SIMO analyzes inputs and evaluates the impact of significant conceptual and implementation changes to any of the phases of INTACS. Network transition force models are developed to represent the phases and are used as the basis for the distribution/redistribution concept. A series of five (5) force models for current, transition and objective systems have been developed to provide an orderly, compatible method of incorporating new equipment.

6. SIMO performs system integration and controls the outputs to insure that the distribution of TRITAC and other new equipments results in an optimal analog-digital hybrid architecture that is functional and supports the needs of the local commander. The distribution/redistribution concept is based on network transition to the INTACS objective architecture, force structure, distribution priorities, interoperability and geographical constraints. One form of the output distribution data is equipment assignment to units of the force by year.

7. When the transition and distribution plans are established, significant exceptions are resolved by special working groups and the INTACS Steering Committee (AR 15-23) using SIMO-furnished data as the baseline.

4.0 ASMI REPORTS PROCEDURES

4.1 REPORT GENERATION CONTROL PROCEDURES

A large and varied amount of reports and schedules are available to users from operating programs acting upon the SIMO Data Base. Some 27 outputs have been identified and are available through existing programs. Of these 27, those that deal with Force Models each have five outputs (F-1 through F-5). The total number will further increase by approximately ten when the fielding schedule phase is implemented.

To avoid a voluminous, unmanageable and unnecessary flow of data, each user and their particular requirements have been analyzed. From this a basic package of reports and schedules has been identified and consists of only five outputs. These outputs are relatively brief so as to require a minimum amount of time to transmit electronically. The remainder of the outputs are another format of the basic reports, a summary of the basic reports or are reference and/or audit information to be furnished upon request. The basic package, with the list of identified users, is shown in Table 4-I and will be transmitted automatically at scheduled times. The Master Users List of reports, by functional area and with illustrations, is attached as Appendix A.

4.1.1 Acquisition/Distribution

This functional area consists of eight outputs of which three will be contained in the basic package. Two are quality control assurance of the input data and the remaining three are re-formatted version of basic report outputs.

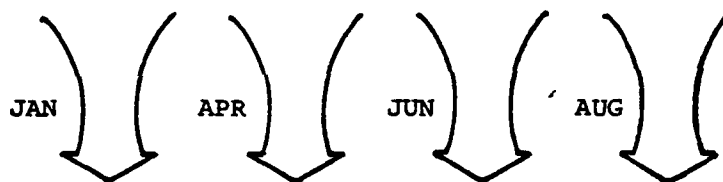
The reports in this area are the culmination of all the information in the SIMO Data Base, together with the preceding programs, and form the basis upon which budget decisions and equipment distribution plans can be made. New reports are generated each time there is a change in the budget, cost or basis of issue.

4.1.2 Equipment/Assemblages

There are seven user outputs in this functional area with all of them being available in the master form or in each Equipment Model from F-1 through F-5. None are included in the basic package but may be obtained upon request. They provide equipment reference data and the location of the items in the Force Models.

BASIC REPORT PACKAGE

AIIMSP0006	EQUIPMENT QUANTITIES (ACQUISITION)
AIIMSP0022	LIFE CYCLE MANAGEMENT SHEETS
AIIMSP0123	EQUIPMENT DISTRIBUTION
AIIMSP0048	GENERIC BOI FORCE MODEL F-5
AIIMSP0097	EQUIPMENT SUMMARY FORCE MODEL F-5



USERS	DA/ACSAC	DA/DCSOPS	DA/DCSPER
	DA/DCSLOG	DA/DCSRDA	DA/OCA
	DA/ACSI	OCSA/MISD	ASA/FM
	DARCOM	TRADOC	INSCOM
	USACC	FORSCOM	CECOM
	USASC	TRI-TAC	TSMs

TABLE 4-I BASIC REPORT PACKAGE AND DISTRIBUTION

4.1.3 POM Force

Only one program is available in this area, but it provides the Force for each of the projected five years. The Master POM is already available to all users, but the condensed force version may be obtained upon request since this will provide the Force against which acquisition and distribution schedules are run.

4.1.4 Force Models

This area consists of 11 basic user outputs with most of them being available in consolidated format and in the Force Model F-1 through F-5 versions. Two of these outputs are included in the basic package to provide the user with ready reference data on BOI and a summary of the force used.

These programs provide a variety of data on BOIs, TOEs, assemblages and components as they relate to units, both generically and by the selected force. They provide both reference data and an audit trail for the acquisition and distribution schedules. Those not included in the basic package are relatively lengthy, do not change frequently and, therefore, will be furnished only upon special request.

4.1.5 Report Request Procedure

As stated above, the basic package will be sent automatically to the listed, pre-selected users. Other agencies who have a requirement for the basic package on a periodic or one-time basis may request same from the U.S. Army Signal Center, Attn: ATZH-CDI. Other reports on the Master Users List may be obtained in the same manner.

4.1.6 Internal Procedures

The Implementation Element of SIMO receives all requests for reports to be generated through ASMI. They maintain the master schedule for periodic reports and log/schedule requests for special reports, which are all reports other than periodic.

When a request is received, the Documentation Index will be checked to see if the report has a current validation. If the validation date is more than three months old or if a data base update is involved, the AIIMS program will be executed, through a work request to AIIMS, and the report sent to the System Integration and Architecture Element of SIMO for validation. After validation, the newly validated report will be placed in the appropriate

SIMO Book (Table 1-2, INTACS Transition and Management Plan), The documentation Index will be updated, and the report will be released to the requestor.

If validation is not required, a work request will be sent to AIIMS where the report will be generated as per the procedures in paragraphs 4.1.7 and 4.2.

4.1.7 Production Control

A Production Control position within the Implementation Element of SIMO is required to provide and control distribution of the special and periodic production runs. This is a responsible position that must provide positive assurance that the data base is validated prior to the release of reports. The procedures for this position applicable to special and periodic reports follows:

1. Associate the report request with the Documentation Index to determine programs and files necessary to produce the report. Determine the validation date of the data base required for production of the requested report.
2. If the validation date is older than three months, acquire validated information or the authorization to proceed from the Implementation Element Chief.
3. Utilize the Program Documentation Record for instructions; enter the validation date, if new date is received, and execute programs to produce the report.
4. Notify those users on electronic mail service that the report is ready or deliver a copy of the report to the Implementation Chief for other users.
5. Refer to Automated Logging System (4.2) for the remaining procedure.

4.2 AUTOMATED LOGGING SYSTEM

Due to the large number of reports and the frequency with which they are generated by computer, it is necessary to have an automated logging system to control the distribution. This will permit management to insure, first; that the report is generated as per schedule, and second; that the user made access and received the report as scheduled.

When a report is generated, it will be placed into storage as a file and the name of the report and address of the storage location placed in the automated logging routine. The user will access the system by doing a

"system log-in" and then bringing up "SIMOLOG". This will activate the routine for the automated logging system. The user enters his I.D. and the report name which will automatically be transferred to a permanent log along with the time. After receiving the report, the user will log-out which will verify that the report has been received and the information will again be transferred to the permanent log. For local users, the same procedures will be used but with the SIMO ADP Operators using the customer I.D. to obtain his report. The report will then be sent to the SIMO Implementation Chief who is responsible for making the delivery. A simplified flow diagram of the system is shown in Figure 4-1.

The automated log will be printed out weekly with the copy going to the Implementation Element who will compare the automated log with the master schedule and special request log. Any discrepancies will be resolved through coordination with the user.

4.3 ELECTRONIC DISTRIBUTION AND INPUT SYSTEM

4.3.1 Outputs

To be effective, the Automated System Management Information (ASMI) process must be responsive to the users' requirements and provide a reasonably fast computer turn-around and delivery service. Particular emphasis is placed on this during the budgeting cycle when a baseline run plus several variations may be required. During this time, short suspenses develop and material may be required within two or three days.

The key to the successful operation of a responsive system is the DA ACSAC Automated Information Distribution Center as shown in Figure 4-2. The majority of the users, shown in Table 4-I, can be served through this center. Once the information is compiled and put in storage, the user makes electronic access as discussed in paragraph 4.2, Automated Logging System.

4.3.2 Inputs

Also shown in Figure 4.2 is a list of input requirements that are necessary to make report updates. These are shown by the agency which has primary staff responsibility for this data. The DA ACSAC Automated Information Distribution Center will coordinate these inputs and transmit them to the TRADOC computer. SIMO will then access them and transfer the information to the appropriate data base.

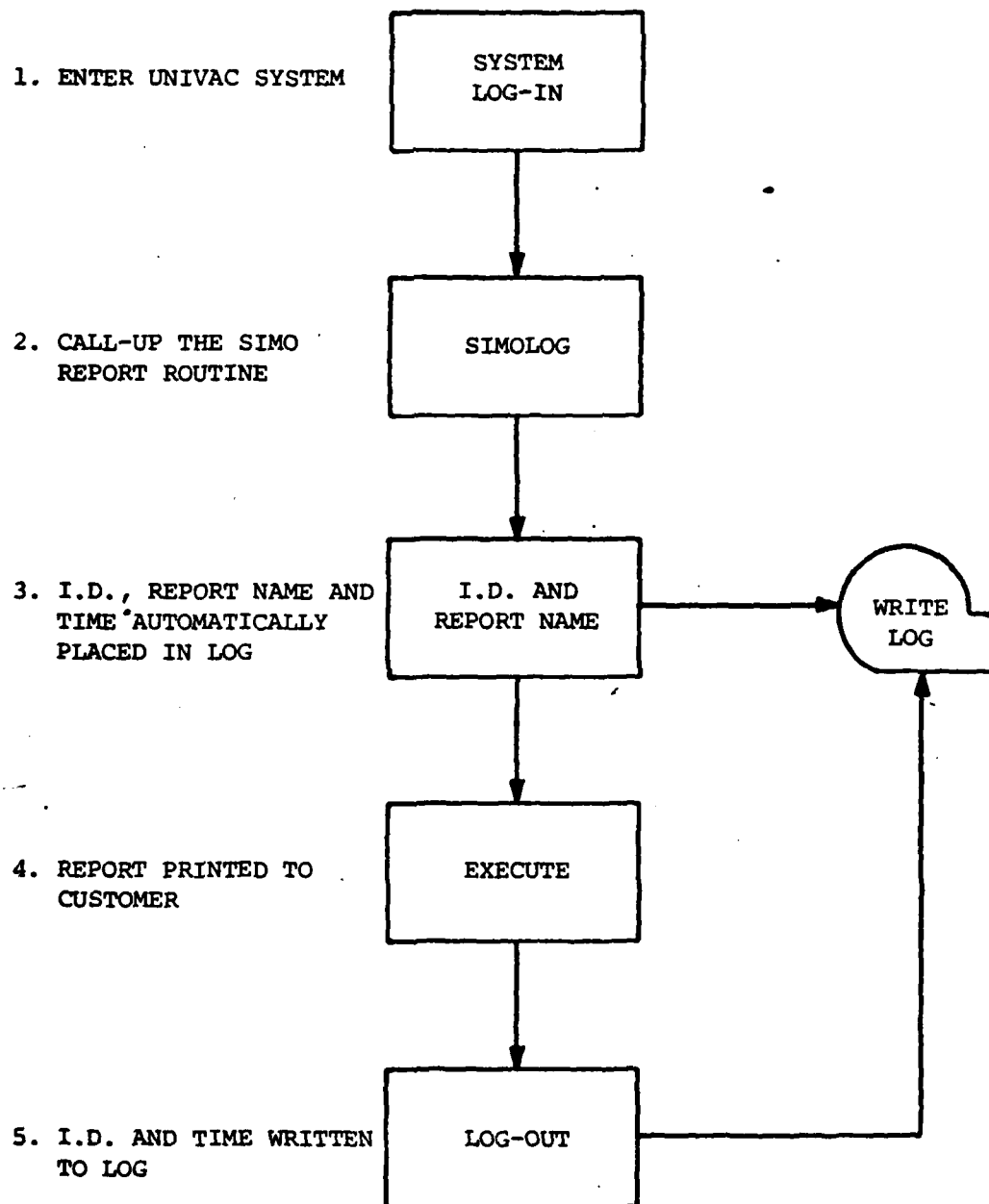


FIGURE 4-1 USER ACCESS AND LOGGING PROCEDURE

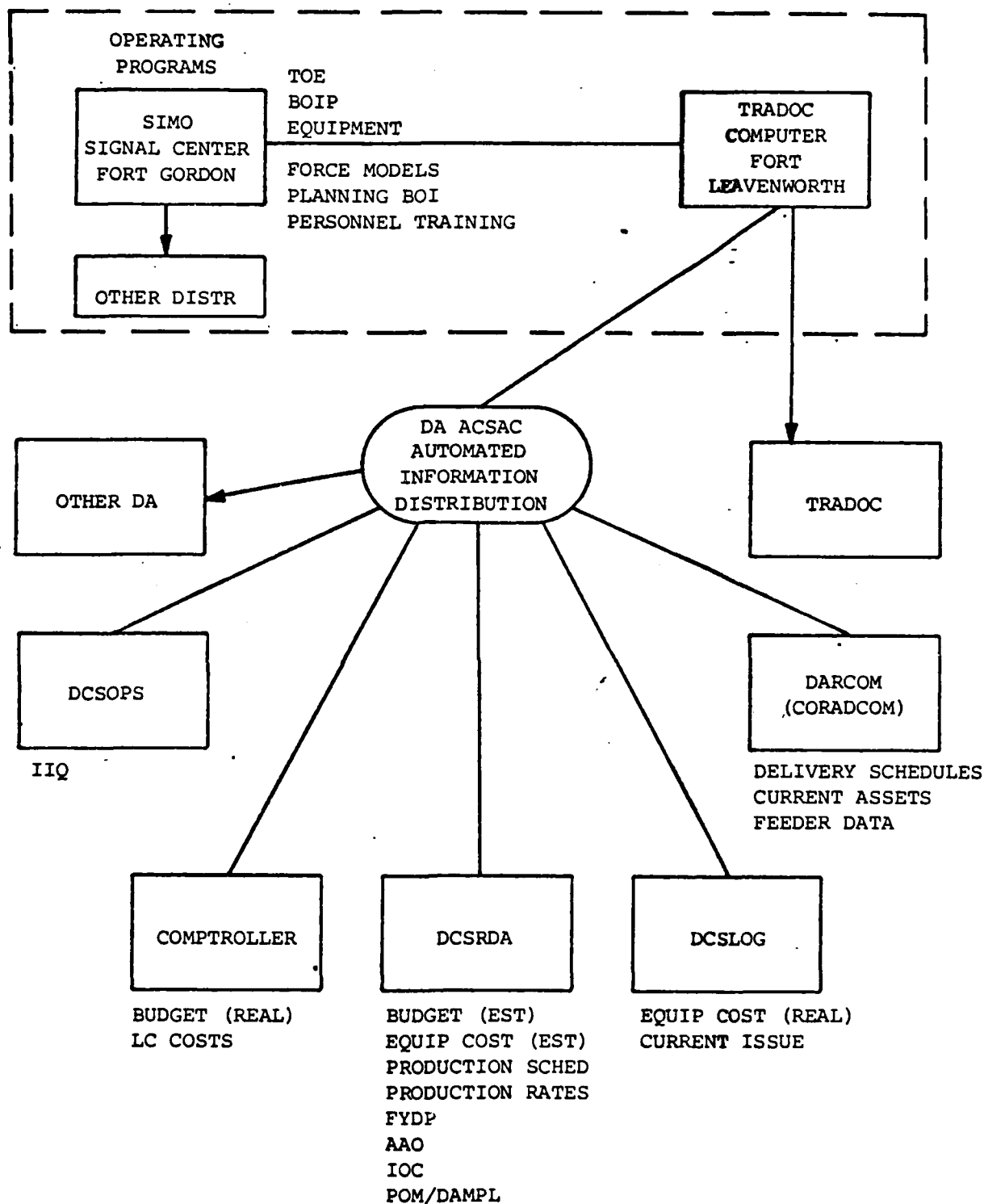


FIGURE 4-2 SIMO INPUT, OUTPUT DISTRIBUTION SYSTEM

5.0 ASMI PROGRAMS AND USERS REFERENCE HANDBOOK

This handbook is to be kept under separate cover and will provide SIMO with a ready reference source for current information on programs, reports, files and user requirements pertaining to the SIMO automated transition data base and reporting system. Also included will be planning data on system expansion and updating. The reference material itself is primarily computer generated and, as such, will be self-updating as changes in the system occur. Conversely, user lists and their report requirements will be updated through the staff action request procedure. Similarly, updates, projects, and system refinements reference information will be available as a result of planning conferences and meetings among management, operations and user personnel.

Shown below is the recommended index for the handbook with a summary of each topic to be included. Experience and operational requirements may dictate the inclusion of additional material as the system progresses, therefore the sections have been left broad enough to accommodate this material.

SECTION I - PROGRAM LISTINGS

- TAB A - SIMO MASTER PROGRAM LISTING - A master index of all programs used by AIIMS. Entitled as Program Documentation Record, this index is kept current by AIIMS personnel using Program DOCP0002.
- TAB B - SIMO MASTER FILE LISTING - A master index of files used by AIIMS. This index is kept current by Program DOCP0003.
- TAB C - USER PROGRAM LIST - An extract from the Master Program Listing which shows only the output programs for user reports and schedules. These program numbers will be the ones by which users request information.

SECTION II - USER INFORMATION

- TAB A - USER LIST - A listing of the users with organization, address, office code, point-of-contact, telephone number and assigned I.D.
- TAB B - USER/REPORT/DUE DATE MATRIX - The matrix will show user I.D., program number and date program required. Example follows:

PROGRAM OFFICE	AIIMSP0006	AIIMSP0003	AIIMSP0123	
DA DCSOPS	JAN APR JUN AUG	JAN APR JUN AUG	JAN APR JUN AUG	
DA DCSRDA	JAN APR JUN AUG	JAN APR JUN AUG	JAN APR JUN AUG	

SECTION III - PROGRAM STATUS/SCHEDULES

TAB A - AIIMS SYSTEM UPDATES AND PROJECTS (PLANNED) - Description of changes and refinements planned in the ADP system with projected start and finish dates.

TAB B - NEW REPORTS AND USERS (PLANNED) - Planned output changes or new information to be generated along with potential users.

TAB C - LOGS - Current copies of automated logs of user access.

SECTION IX - PROGRAM HEADERS - Banner sheets and samples of user program runs.

APPENDIX A

AIIMS REPORTS

<u>FIGURE</u>	<u>TITLE</u>	<u>CLASS</u>	<u>DESCRIPTION</u>	<u>PROGRAM NR.</u>
<u>ACQUISITION/DISTRIBUTION</u>				
1	EQUIPMENT QUANTITIES	CONF	Equipment acquisition by year showing budget, cost, cumulative totals and remaining AAO each year.	AIIMSP0006
2	EQUIPMENT ACQUISITION AAO INPUT	UNCL	Prints, as a check, the input AAO used in equipment quantity program, AIIMSP0006.	AIIMSP0026
3	BUDGET/COST PRINT	CONF	Prints, as a check, the input budget and unit cost used in equipment quantity program, AIIMSP0006.	AIIMSP0023
4	LIFE CYCLE MANAGEMENT SHEET	UNCL	Each equipment planned buys by FY, unit cost, AAO, BOI, components, milestones and miscellaneous data.	AIIMSP0038
5	EQUIPMENT QUANTITY BY YEAR (ANNLIST)	CONF	Summary of programmed annual equipment buys by fiscal year.	AIIMSP0107
6	EQUIPMENT COST/BUDGET SUMMARY	CONF	Summary of projected equipment buys by year with cost/budget.	AIIMSP0118
7	EQUIPMENT DISTRIBUTION	CONF	Equipment projected distribution to specific POM units based on projected annual buys.	AIIMSP0123
8	EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR	CONF	Projected distribution of future equipment acquisition to each authorized unit.	AIIMSP0009
<u>EQUIPMENTS/ASSEMBLAGES</u>				
9	EQUIPMENT MASTER FILE PRINT	UNCL	Master equipment file in key order or alphabetically.	AIIMSP0030
10	IOC PROFILE PRINT	UNCL	Prints equipment with established IOC by ascending FY.	AIIMSP0037
11	ASSEMBLAGE MASTER GENERIC FILE	UNCL	Master file of assemblages and their components.	AIIMSP0040

<u>FIGURE</u>	<u>TITLE</u>	<u>CLASS</u>	<u>DESCRIPTION</u>	<u>PROGRAM NR.</u>
12	MASTER EQUIPMENT PACKAGES FILES	UNCL	Master file of procurement, GFE, end item and assemblage packages.	AIIMSP0042
13	END ITEM ASSOCIATED/ ANCILLARY EQUIPMENT	UNCL	Related required items by Force F1-F5.	AIIMSP0080
14	COMPONENT MASTER	UNCL	Master list of components to assemblages.	AIIMSP0083
15	EQUIPMENT MODEL FILES	UNCL	Prints equipment files F1-F5 by equipment category.	AIIMSP0077
	<u>POM FORCE</u>			
16	CONDENSED FORCE FILE	CONF	POM Force by year with DAMPL sequence.	AIIMSP0007
	<u>FORCE MODELS</u>			
17	EQUIPMENT FORCE MODEL MATCH	UNCL	Master list of equipment showing force models and each item that has a BOI available.	AIIMSP0101
18	BOIP PRINT	UNCL	Extracts BOIP units and equipment quantities from master BOIP file in a condensed format.	AIIMSP0025
19	GENERIC TOE	UNCL	Shows TOE's and authorized equipment quantities by force model.	AIIMSP0043
20	GENERIC TOE FILE WITH COMPONENT ITEMS	UNCL	Supplements AIIMSP0043 to add data base 'component only' items with zero quantities within the force.	AIIMSP0074
21	GENERIC BOI	UNCL	Equipment quantities and in which TOE's they are authorized by force model.	AIIMSP0048
22	TOE FILE PRINT	CONF	TOE force models F1-F5 by active army, national guard, reserve and total force.	AIIMSP0008
23	TOE FILE WITH COMPONENT ITEMS	CONF	Supplements AIIMSP0008 to add data base 'component only' items with zero quantities within the force.	AIIMSP0073
24	BOI FILE PRINT	CONF	BOI force models F1-F5 by active army, national guard, reserve and total force.	AIIMSP0028

<u>FIGURE</u>	<u>TITLE</u>	<u>CLASS</u>	<u>DESCRIPTION</u>	<u>PROGRAM NR.</u>
25	EQUIPMENT SUMMARY FILE	CONF	Force models F1-F5 showing total equipment for active army, national guard, reserve and total force.	AIIMSP0097
26	ASSEMBLAGES BY FORCE	CONF	Assemblages with components by force F1-F5 within equipment category.	AIIMSP0093
27	COMPONENTS BY FORCE	CONF	Components to assemblages by force F1-F5.	AIIMSP0095

THE EQUIPMENT QUANTITIES PROGRAM PRODUCES A FORECAST OF EQUIPMENT BUYS BY BUDGET YEARS BASED ON INPUTS OF FYDP, BUDGET AND COST RULES FOR FUTURE YEARS, AND THE EQUIPMENT IIO OR AAO.

THE INFORMATION UNDER COLJAN HEADINGS IS:

1- KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.

2- ACQUISITION - EQUIPMENT IDENTIFICATION.

3- FISCAL YEAR - BUDGET YEAR FOR EQUIPMENT FORECAST.

4- BUDGET - FIXED AND/OR CALCULATED FROM FYDP PLUS CURRENT GUIDANCE.

CURRENT RULES MAY BE OBTAINED FROM SIMO.

5- SURPLUS - EXCESS OF BUDGET OVER COST BY EQUIPMENT BY FISCAL YEAR.

6- COST - EQUIPMENT UNIT COST BASED ON GIVEN INPUT OR CALCULATED BY CURRENT

GUIDANCE FOR EACH FISCAL YEAR.

7- ANNUAL BUY - QUANTITY OF EQUIPMENT TO BE BOUGHT EACH FISCAL YEARBASED ON

BUDGET AND COST.

8- CUM BUY - CUMULATIVE BUY OF EQUIPMENT OVER THE FISCAL YEARS.

9- AAO REMAINING - TOP FIGURE IS THE TOTAL AAO OR IIO - SUBSEQUENT FIGURES

ARE REDUCED BY ANNUAL BUY.

NOTES: A. ATIMS PROGRAM A1145P0107 SUMMARIZES THIS PRINT BY TOTAL EQUIPMENT PER

FISCAL YEAR.

B. ATIMS PROGRAM A1145P0123 PROVIDES THE SPECIFIC UNIT DISTRIBUTION PLAN FOR

THIS EQUIPMENT FORECAST.

QUESTIONS SHOULD BE ADDRESSED TO USRSC-SIMO AUTOVON 780-3102/3671.

FIGURE 1

DATE 03/20/81

KEY
NUMBER

A10039

NOMENCLATURE

EQUIPMENT QUANTITIES

A1HSP0006

PAGE 3

FISCAL YEAR	BUDGET	IN MILLIONS + SURPLUS	COST	ANNUAL BUY	CUM BUY	AAO REMAINING
91	-0.000	-0.000	-0.000	0	0	0
92	-0.000	-0.000	-0.000	0	0	0
93	-0.000	-0.000	-0.000	0	0	0
94	-0.000	-0.000	-0.000	0	0	0
95	-0.000	-0.000	-0.000	0	0	0
96	-0.000	-0.000	-0.000	0	0	0
97	-0.000	-0.000	-0.000	0	0	0

A10040

82	-0.000	-0.000	-0.000	0	0	17
83	-0.000	-0.000	-0.000	0	0	17
84	2.0000	-0.000	-0.000	0	0	17
85	3.2000	-0.000	-5.333	6	10	13
86	1.2000	-0.000	-6.000	2	12	7
87	1.3200	-0.000	-6.000	2	14	5
88	1.4520	-2520	-6.000	2	16	3
89	1.5972	-9972	-6.000	1	17	1

A10041

82	-0.000	-0.000	-0.000	0	0	1,019
83	-0.000	-0.000	-0.000	0	0	1,019
84	4.0000	-0.000	-0.888	45	45	974
85	5.0000	-0.000	-0.833	60	105	914
86	16.0000	-0.000	-2.133	75	180	839
87	17.6000	-1067	-2.133	82	262	757
88	19.3600	-1600	-2.133	90	352	667
89	21.2750	-1760	-2.133	99	451	568
90	23.4256	-1723	-2.133	109	560	459
91	25.7691	-1681	-2.133	120	680	339
92	28.3449	-1849	-2.133	132	812	207
93	31.1733	-0326	-2.133	146	958	61
94	34.2972	21,2639	-2.133	61	1,019	0

A10052

82	-2.900	-0.000	-1.450	2	2	358
83	4.5000	-0.000	-1.800	25	27	356
84	2.0000	-0.000	-2.000	10	37	331
85	3.3000	-0.000	-1.833	18	55	321
86	3.8000	-0.000	-2.111	18	73	303
87	4.1800	-1689	-2.111	19	92	285
88	4.5930	-1667	-2.111	21	113	266
89	5.0578	-2022	-2.111	23	136	245
90	5.5635	-0746	-2.111	26	162	222
91	6.1198	-2087	-2.111	28	190	196
92	6.7317	-1873	-2.111	31	221	168
93	7.4046	-0159	-2.111	35	256	137
94	8.1452	-1230	-2.111	38	294	102
95	8.9597	-0930	-2.111	42	336	64
96	9.8554	-2112	-2.111	48	384	22

ILLUSTRATION NOT AVAILABLE
TO BE FURNISHED

ANNUAL BUDGET

IN MILLIONS \$

YEAR

MONTH

DESCRIPTION

NUMBER

NUMBER	DESCRIPTION	YEAR	BUDGET	COST	ANNUAL BUDGET
A10001		82	0.500	0.250	2
		83	16.7000	0.226	75
		84	5.0000	0.290	20
		85	11.0000	0.275	40
		86	11.5000	0.2613	44
		87	12.6500	0.265	48
		88	13.9150	0.2625	53
		89	15.3065	0.2639	58
		90	16.8371	0.2630	64
		91	18.5208	0.2645	70
		92	20.3728	0.2645	77
		93	22.4100	0.2636	85
		94	24.6510	0.2622	94
		95	27.1161	0.2632	103
		96	29.8277	0.2616	114
		97	32.8104	0.2624	125
A10014		82	0.0000	0.000	0
		83	0.000	0.000	0
		84	4.5000	1.5000	3
		85	14.5000	1.4500	10
		86	29.0000	1.4500	20
		87	31.9000	1.4500	22
		88	35.0900	1.4620	24
		89	38.5990	1.4845	26
		90	42.4539	1.4641	29
		91	46.7047	1.4595	32
		92	51.3751	1.4678	35
		93	56.5126	1.4871	38
		94	62.1638	1.4800	42
		95	68.3801	1.4548	47
		96	75.2181	1.4748	51
		97	82.7399	1.4515	57
A10015		82	0.000	0.000	0
		83	0.000	0.000	0
		84	20.8000	1.3866	15
		85	0.000	0.000	0
		86	0.000	0.000	0
		87	0.000	0.000	0
		88	0.000	0.000	0
		89	0.000	0.000	0
		90	0.000	0.000	0
		91	0.000	0.000	0
		92	0.000	0.000	0
		93	0.000	0.000	0
		94	0.000	0.000	0
		95	0.000	0.000	0
		96	0.000	0.000	0
		97	0.000	0.000	0
A10030		82	73.4000	3.1913	23
		83	0.000	0.000	0
		84	73.7000	3.2043	23

ANNUAL BUY

COST

BUDGET

YEAR

NOMENCLATURE

NUMBER

A10038	89	49.2470	3.7882	13
	90	54.1717	3.8694	14
	91	59.5088	3.7243	16
	92	65.5476	3.8557	17
	93	72.1023	3.7740	19
	94	79.3125	3.7757	21
	95	87.2437	3.7932	23
	96	95.9680	3.8387	25
	97	105.5648	3.7701	28

A10039	82	.0000	.0000	0
	83	34.1000	4.2625	8
	84	.0000	.0000	0
	85	.0000	.0000	0
	86	.0000	.0000	0
	87	.0000	.0000	0
	88	.0000	.0000	0
	89	.0000	.0000	0
	90	.0000	.0000	0
	91	.0000	.0000	0
	92	.0000	.0000	0
	93	.0000	.0000	0
	94	.0000	.0000	0
	95	.0000	.0000	0
	96	.0000	.0000	0
	97	.0000	.0000	0

A10040	82	.0000	.0000	0
	83	.0000	.0000	0
	84	2.0000	.5000	4
	85	3.2000	.5333	6
	86	1.2000	.6000	2
	87	1.3200	.6600	2
	88	1.4520	.7260	2
	89	1.5972	.7986	2
	90	1.7569	.8784	2
	91	1.9325	.9441	3
	92	2.1257	.7005	3
	93	2.3382	.7794	3
	94	2.5720	.6430	4
	95	2.8292	.7073	4
	96	3.1121	.6224	5
	97	3.4233	.6846	5

A10041	82	.0000	.0000	0
	83	.0000	.0000	0
	84	4.0000	.0808	45
	85	5.0000	.0833	60
	86	16.0000	.2133	75
	87	17.6000	.2146	82
	88	19.3600	.2151	90
	89	21.2960	.2151	99
	90	23.4256	.2149	109
	91	25.7681	.2147	120

DATE 07/05/81

LIFE CYCLE MANAGEMENT SHEET

PAGE 3

ACRONYM: RADIO REPEATER SET

DESCRIPTION: MULTICHANNEL TRANSMISSION

FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

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FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

FISCAL YEARS

QTY AAO

EQUIPMENT CATEGORY: MULTICHANNEL TRANSMISSION

FISCAL YEARS

MILESTONES

ADV DEV

RDC

VAL IPR

ENGR DEV

DT/UT 11

DEVA IPR

TC (INITIAL)

DT/OT 111

IUC

BEGIN FY

0180

0160

0180

0180

0180

0180

0180

0180

0180

REVISED

1..

1280

1280

1280

1280

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END FY

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1280

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1280

PROJECT OFFICE: MR. RON POUND

SSN: 285

ACN: 53254

LINE NO: 160

10 06/13/81

ANNUAL EQUIPMENT QUANTITIES

ALHNSP0107

PAGE 5

REF	NAME/ACRONYM	ANNUAL BUY	COST/EA	\$ TOTAL VR COST	UNIT COST/EA	CUMULATIVE BUY	TOTAL AAO
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FISCAL YEAR MULTICHANNEL TRANSMISSION

20	5-0000	2-5	0-2500	97	947
3	4-5000	2-3	1-5000	3	121
10	2-0000	1-0	0-2000	37	358
CATEGORY SUBTOTAL					5-8

FISCAL YEAR 86 MULTIPLEX

40	0-2500	0-1	0-0062	188	3-360
100	0-2000	0-1	0-0020	395	5-490
20	1-7000	0-3	0-0850	100	1-064
50	0-0000	4-0	0-1600	193	5-184
16	0-7500	0-4	0-0468	74	5-136
20	0-3000	0-2	0-0150	95	1-194
25	0-7500	0-4	0-0300	154	4-760
20	0-7000	0-4	0-0350	90	1-064
25	0-5300	0-3	0-0260	293	7-192
18	0-5000	0-3	0-0277	204	3-648
10	0-8000	0-4	0-0800	78	1-690
10	1-0000	0-5	0-1000	56	1-109
20	1-1000	0-6	0-0550	40	228
20	1-0000	0-5	0-0500	138	3-597
CATEGORY SUBTOTAL					9-1

FISCAL YEAR TACTICAL COMMUNICATIONS CONTROL FACILITIES

10	39-0000	19-6	3-8000	25	110
13	31-0000	15-6	2-3846	33	376
CATEGORY SUBTOTAL					35-2

FISCAL YEAR SWITCHING

23	73-7000	37-1	3-2043	46	102
4	2-0000	1-0	0-5000	4	17
45	4-0000	2-0	0-0888	45	3-019
13	6-5000	3-3	0-5000	13	302
CATEGORY SUBTOTAL					43-4

FISCAL YEAR TERMINALS

45-1
23-5
4-6
6-3

DATE 01/12/81

KEY POINT NOMENCLATURE

EQUIPMENT COST/BUDGET

AIIHSP0118

PAGE 1

FISCAL YEAR

PRIOR
FY-82

DOLLARS IN MILLIONS AND QUANTITIES IN WHOLE UNITS

FY-82 FY-83 FY-84 FY-85 FY-86 FY-87 FY-88 FY-89 FY-90 POST
FY-90

ARC001 TRC-174

BUDGET DOLLARS	0.0000	0.8500	16.7000	5.0000	11.0000	11.5000	12.6500	13.9150	15.3065	16.8371	N/A
EQUIPMENT COST(EST)	0.0000	0.4250	0.2226	0.2500	0.2750	0.2613	0.2613	0.2613	0.2613	0.2613	0.2613
QUANTITY	0	2	75	20	40	44	48	53	58	64	543
ACT FOR PUL	0.0000	0.8500	16.7000	5.0000	11.0000	11.5000	12.5655	13.8523	15.1591	16.7273	141.8859
CLM SURPLUS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1045	0.0627	0.1474	0.1098	N/A
AAE-BUDGET	141.8859	401.6250	212.5000	222.7500	200.1550	187.6134	173.7645	158.6091	141.8859	123.5949	103.4743

ARC014 TRC-170(V3)

BUDGET DOLLARS	0.0000	0.0000	0.0000	4.5000	14.5000	29.0000	31.9000	35.0900	38.5990	42.4589	N/A
EQUIPMENT COST(EST)	0.0000	0.0000	0.0000	1.5000	1.4500	1.4500	1.4500	1.4500	1.4500	1.4500	1.4500
QUANTITY	0	0	0	3	10	20	22	24	24	16	6
ACT FOR PUL	0.0000	0.0000	0.0000	4.5000	14.5000	29.0000	31.9000	34.8000	37.7000	40.0000	0.0000
CLM SURPLUS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.2900	0.8990	19.2589	N/A
AAE-BUDGET	0.0000	0.0000	177.0000	156.6000	127.6000	95.7000	60.9000	23.2000	0.0000	0.0000	103.4743

ARC015 TRC-170(V2)

BUDGET DOLLARS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
EQUIPMENT COST(EST)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
QUANTITY	0	0	0	0	0	0	0	0	0	0	0
ACT FOR PUL	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CLM SURPLUS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AAE-BUDGET	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	103.4743

ARC036 TTC-35(V1)

BUDGET DOLLARS	0.0000	73.4000	0.0000	73.7010	36.0000	37.0000	40.7000	44.7700	49.2470	0.0000	N/A
EQUIPMENT COST(EST)	0.0000	3.1913	0.0000	3.2043	3.6000	3.7000	3.7000	3.7000	3.7000	0.0000	0.0000
QUANTITY	0	23	0	23	10	10	11	12	13	0	6
ACT FOR PUL	0.0000	73.4000	0.0000	73.7000	36.0000	37.0000	40.7000	44.4000	47.0000	0.0000	0.0000
CLM SURPLUS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.3700	1.1470	0.0000	0.0000
AAE-BUDGET	0.0000	252.1127	0.0000	179.4408	133.2000	92.5000	48.1000	0.0000	0.0000	0.0000	103.4743

ARC059 TTC-39(V2)

BUDGET DOLLARS	0.0000	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
EQUIPMENT COST(EST)	0.0000	0.0000	4.2625	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
QUANTITY	0	0	8	0	0	0	0	0	0	0	0
ACT FOR PUL	0.0000	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
CLM SURPLUS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
AAE-BUDGET	0.0000	34.1000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

FORMAL

THE EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR LISTS THE UNIT AND ALL THE SPECIFIED EQUIPMENT FORECAST FOR THAT UNIT BY BUDGET YEAR.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. CAMPL - DEPARTMENT OF THE ARMY MASTER PRIORITY LIST SEQUENCE NUMBER.
2. LUC - ABBREVIATED GEOGRAPHICAL LOCATION.
3. UIC - UNIT IDENTIFICATION CODE.
4. UNIT-ID - UNIT NUMERICAL DESIGNATION.
5. UNIT NOMENCLATURE - UNIT NAME.
6. SRC - STANDARD REQUIREMENT CODE - UNIT TOE NUMBER.
7. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
8. KEY NOMENCLATURE/KEY DESCRIPTION - EQUIPMENT IDENTIFICATION.
9. QTY REQ - AUTHORIZED AMOUNT OF EQUIPMENT PER UNIT.
10. YEAR SUBMITTED - AMOUNT OF EQUIPMENT BY FISCAL YEAR.

NOTES: INFORMATION FOR THIS SUMMARY IS DERIVED FROM AIMS PROGRAM AAIMSP0123, EQUIPMENT DISTRIBUTION BY BUDGET YEAR TO UNITS.

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIND AUTVDM 710-3102/3671.

DATE 10/17/81 TITLE EQUIPMENT DISTRIBUTION BY UNIT AND BUDGET YEAR 1981 MSP0009 PAGE 70

BARPL LOC UIC UNIT-10 UNIT NAME CLATURE SRC
CD SPECIAL 44ND 65 090604500

KEY NUMBER KEY NAME CLATURE KEY DESCRIPTION REQ PRI 82 83 84 85 86 87 88 89 90 90 POST
QTY 012

TAC DCTL FACSIMILE
MOD RECORD TFC TML (SNGL) 0001

BARPL LOC UIC UNIT-10 UNIT NAME CLATURE SRC
SIC 80.114 DIV 110354000

KEY NUMBER KEY NAME CLATURE KEY DESCRIPTION REQ PRI 82 83 84 85 86 87 88 89 90 90 POST
QTY 012

AAD041 SB-3055 AUTO SWDD (30L) 0007
AACC90 KY-90 DCTL NET RAD INT UNIT 0006
AED010 433 TACT C344 CEM 4/UL45 0002
AED013 UXC-4 TAC DCTL FACSIMILE 0006
AED0137 MOD TACT COMH CEM 0002
AED0141 TA-956 D16 V3V-SEC TP 0230
AED0146 MOD RECORD TFC TML (SNGL) 0014

BARPL LOC UIC UNIT-10 UNIT NAME CLATURE SRC
AIC 84 SUPPLY C SVC 291664500

KEY NUMBER KEY NAME CLATURE KEY DESCRIPTION REQ PRI 82 83 84 85 86 87 88 89 90 90 POST
QTY 012

MOD RECORD TFC TML (SNGL) 0002

THE MASTER EQUIPMENT LIST IS A COMPLETE LIST OF INTACS EQUIPMENT FOR CURRENT, TRANSITION AND OBJECTIVE SYSTEMS.
IT IS THE ATMS EQUIPMENT DATA BASE FROM WHICH ALL OTHER LISTS AND SCHEDULES ARE DERIVED.

THE FOLLOWING INFORMATION IS FURNISHED:

1. REF # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. EQUIP # - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
4. LINE # - LINE-ALPHABETIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
7. FUND YR - INITIAL FUNDING YEAR.
8. IGC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATED 100 APR 30 1981 00).

THIS REPORT IS AVAILABLE SORTED BY ANY COLUMN IT CONTAINS AND BY EQUIPMENT CATEGORY IN COMBINATION WITH THE COLUMN SORTS.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SIND AUTVON 790-3182/3671.

DATE	35/11/91	EQUIPMENT FILE	ALINSP0030	PAGE 2						
REF NO.	NOMENCLATURE	ACRONYM	DESCRIPTION	BOIP NO.	LINE NO.	SSN	ACN	YR	IDC	REMARKS
140021	TAC-116		RADIO REPEATER SET	790040	25160		53353	80	285	
140022	TSC-99		ACS COM ASBL				28939	82	285	
140023	TD-276	ADC	TACSAT 4/C TERMINAL (SHF)	779081	53495	K4700	20896	77	479	
140024	TAC-151		DIGITAL COMBINER		A 5943		13707	77	N/A	
140025	TAC-151		RADIO TERMINAL SET		092899		35332	77	481	
140026	452-116		TACSAT CONTROL CENTER		534539		20896	77	479	
140027	TAC-152		RADIO REPEATER SET		770057		35332	77	481	
140028	TSC-62A		ACR CP COM TRACK				28938	82	186	
140029	TSC-62A		TACSAT 4/C TERMINAL (SHF)				20896	00	482	
140030	TSC-62A		TACSAT 4/C TERMINAL (SHF)		534895		20896	00	482	
140031	TSC-62A		ACR CP COM SPT TRACK				28938	82	186	
140032	TSC-62A		ACS CP COM TRACK				28938	82	186	
140033	TSC-62A		A/M 3DE CP COM TRACK				28938	82	186	
140034	TAC-170(V2)		TAC DIGITAL TROPO		250188		00000	00	N/A	
140035	TAC-170 (2)		TAC DIGITAL TROPO		250187		00000	00	N/A	
140036	TSC-151	MC35	M/C TACSAT SHF DBJ 36CM				14939	83	193	
140037	TSC-151	MC35	M/C TACSAT SHF DBJ 72CH				14939	83	193	
140038	TSC-151		DIV 550 COM ASBL				28939	82	265	
140039	TSC-55		TACSAT 4/C TERMINAL	780252	552242	883507	20896	77	379	
140040	TSC-55		TACSAT 4/C TERMINAL (SHF)	720508	552242	K47702	20896	77	379	
140041	TD-282	ASC	MOBILE SUB CENTRAL (NSE)		243586		56190	85	488	
140042	4577		PULSE FIRE RESTORER	790037	809852		13707	77	380	
140043	TAC-133(V4)	BAND IV	M577 TAC CP				45551	78	N/A	
140044	TSC-151		RADIO SET		254341		35325	77	N/A	
140045	TD-1035	MS50A	BN CP COM TRACK				28938	82	186	
140046	SC-1139		H/S SERIAL DATA BUFFER	820492	H35592		53353	77	480	
140047	TD-1039	TD2M	DIGITAL DATA GENERATOR				45549	81	183	
140048	TSC-97		TIME DIVISION DIGITAL MUX	890491	721130		53353	77	183	
140049	TSC-97		DATA MULTIPLEX SET	790187	220550		13357	79	N/A	
140050	TSC-97		OTOC COM ASBL				28939	82	285	
140051	TSC-97		OTOC STAFF COM ASBL				28939	82	285	
140052	TSC-97		OTOC STAFF COM ASBL				28939	82	285	
140053	TSC-97		FASC/SPT BN COM ASPL				28939	82	285	
140054	TSC-97		DIV/3DE COM ASBL				28939	82	285	
140055	TSC-97		DIV 3DE COM ASBL				28939	82	285	
140056	TSC-97		BN COM ASBL				28939	82	285	
140057	TSC-97	CS	AUTOMATIC CENTRAL OFFICE	790046	214284		22720	81	383	
140058	TSC-97	CS	AUTOMATIC CENTRAL OFFICE	790047	214295	843900	22720	81	383	
140059	TSC-97	ULCS	AUTO TP GEN OFFICE (150C)	780250	294982		32819	82	186	
140060	58-365	ULCS	AUTO SMD (30C)	780251	294980		32819	82	186	
140061	58-32		SMD TELEPHONE MANUAL		081707		23470	75	281	
140062	58-32		CTOC COM ASBL				28939	82	285	
140063	58-32		CTOC STAFF COM ASBL				28939	82	285	
140064	58-32		SHUTTER				00000	00	N/A	
140065	58-32		BURST COM SYSTEM (STA)				12779	82	482	
140066	58-32	BCS	COM CENTRAL (BASE STA)	760090	211114		12779	82	182	
140067	58-32	BCS	COM TTY SET		090100		17840	77	282	
140068	58-32		RADIO TERMINAL SET		257270		53353	82	261	
140069	58-32	BN3D	COM CONTROL UNIT	790041	E95072		32819	82	N/A	
140070	58-32	CSPE	COM SYSTEM PLANNING ELEM				53353	78	284	
140071	58-32	MS5 SM	RADIO SET PORTABLE UHF/VHF	770068	255876		32819	81	182	
140072	58-32		CENTRAL MSG SWITCH AUTO	760098	242430	874100	32819	81	182	
140073	58-32		COMSEC SHELTER	790151	215281		32819	00	N/A	
140074	58-32	CSPE	COM MODAL CTAL ELEM	770002	216406	869200	32819	80	285	
140075	58-32	ULCS	AUTO TP GEN OFFICE (75L)	770021	294981		32819	82	186	

DATE	35/11/91	EQUIPMENT FILE	ALINSP0030	PAGE 3
BOIP	LINE	FUND		

FIGURE 9A

AA0090	KV-68	DIG SECURE TP	1
AA0094	K01-18	TAPE READER	1
AA0112	KG-84	DED LOOP ENCP DEV	1
AA0115	KVK-13	KEY GUN	1
AA0116	KVX-15	NET CONTROL DEVICE	1

DATE 08/23/81 FORCE ASSEMBLY FILE LISTING AINSPO340 PAGE 21

ASSEMBLY NO.	DESCRIPTION	PACKAGE NO.	QUANTITY
FS AA0035	DIV/DE COM ASBL		
AA0146	MUD RECORD TFC TML (SNGL)		1
AA0149	TRUNK ENCP DEV		1
AA0178	VHF TRC MULTICPLR 2 PORT		1
AA0183	TACSAT S/C TERMINAL		1
AA0193	RAOIN SET VEHICLE		3
AA0572	FILL CABLE (CRYPTO)		1

FS AA0036	DIV RTCC COM ASBL		
AA0041	AUTO SHW (30L)		1
AA0063	ACCESS UNIT		2
AA0090	DIG SECURE TP		1
AA0094	TAPE READER		1
AA0099	UNIT LEVEL MSG SWITCH		1
AA0102	LOOP KEY GEN. CONTROL		1
AA0108	LOOP KEY GENERATOR		8
AA0115	KEY GUN		1
AA0116	NET CONTROL DEVICE		1
AA0146	MUD RECORD TFC TML (SNGL)		1
AA0149	TRUNK ENCP DEV		1
AA0178	VHF TRC MULTICPLR 2 PORT		1
AA0242	FRAME (LKG)		1
AA0246	TRANSITION UNIT (2/TVC-11)		1
AA0247	DSVT MOD (W/TVC-11)		4

FS AA0037	BR COM ASBL		
AA0043	SHW TELEPHONE MANUAL		1
AA0115	KEY GUN		1
AA0150	SECURE CONVERTER (1 PORT)		1
AA0178	VHF TRC MULTICPLR 2 PORT		1
AA0193	RAOIN SET VEHICLE		1
AA0572	FILL CABLE (CRYPTO)		1

FS AA0038	TTC-39 (V1)		
AA0090	DIG SECURE TP		2
AA0094	TAPE READER		1
AA0102	LOOP KEY GEN CONTROL		1
AA0103	AUTO KEY DISTA GEN		2
AA0104	INTERFACE CONTROL UNIT		2
AA0105	KEY VARIABLE GENERATOR		2
AA0108	LOOP KEY GENERATOR		19
AA0109	TRUNK ENCP DEV		6
AA0115	KEY GUN		2
AA0116	NET CONTROL DEVICE		2
AA0232	COMMON EQUIP FRAME		1
AA0233	FRAME (TID)		2
AA0236	RECHARGE PTRY PWR SUPPLY		2
AA0239	CODE CHANGER KEY		1
AA0248	LOOP KEY GENERATOR (DVP)		13
AA0254	LOOP KEY GEN CONTROL (DVP)		1
AA0572	FILL CABLE (CRYPTO)		1

FS AA0039	TTC-39 (V2)		
AA0090	DIG SECURE TP		2
AA0092	TELEPHONE SET		1

FORCE VR KEY NO	ASSEMBLAGE NOMENCLATURE / DESCRIPTION	PACKAGE NO.	NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA0039 TTC-32(V2)	AUTOMATIC CENTRAL OFFICE		
		AG0102	HGX-82	LOOP KEY GEN CONTROL
		AG0103	HGX-83	AUTO KEY DISTR GEN
		AG0104	HGX-84	INTERFACE CONTROL UNIT
		AG0105	HGX-83	KEY-VARIABLE GENERATOR
		AG0108	HGX-82	LOOP KEY GENERATOR
		AG0109	KY-13	TRUNK-ENCRP DEVICE
		AG0115	KY-13	KEY GUN
		AG0116	KYX-15	NET CONTROL DEVICE
		AG0227	HGF-82	COMMON EQUIP FRAME
		AG0229		ENV CWN UNIT-18K-BTU
		AG0233	HGF-91	FRAME (TJD)
		AG0246	HYP-71	RECHARGER DTRY-PWR SUPPLY
		AG0239	KIK-18	CODE CHANGER KEY
		AG0248	HGX-82 OVP	LOOP KEY GENERATOR (OVP)
		AG0254	HGX-82 OVP	LOOP KEY GEN CONTROL (OVP)
		AG0572		FILL-CABLE (CRYPTO)
FS	AA0040 TTC-42(V2)	AUTO TP CEN OFFICE (150L)		
		AA0090	KY-68	DIG SECURE TP
		AA0094	KOI-18	TAPE READER
		AA0108	HGX-82	LOOP KEY GENERATOR
		AA0109	HGX-81	TRUNK-ENCRP DEVICE
		AA0115	KYK-13	KEY GUN
		AA0116	KYX-15	NET CONTROL DEVICE
		AA0233	HGF-91	FRAME (TED)
		AA0236	HYP-71	RECHARGER RTRY PWR SUPPLY
		AA0238	HGX-93	AUTO KEY DISTR GEN
		AA0239	KIK-18	CODE CHANGER KEY
		AA0241	HGF-94	FRAME (TED)
		AA0248	HGX-82 OVP	LOOP KEY GENERATOR (OVP)
		AA0572		FILL CABLE (CRYPTO)
		AA0576	HGF-93	FRAME (AROC)
FS	AA0041 SB-3065	AUTO S480 (30L)		
		AA0090	KY-68	DIG SECURE TP
		AA0094	KOI-18	TAPE READER
		AA0115	KYK-13	KEY GUN
		AA0116	KYX-15	NET CONTROL DEVICE
		AA0149	HGX-93	TRUNK ENCRP DEVICE
		AA0236	HYP-71	RECHARGER DTRY-PWR SUPPLY
		AA0464	TD-1235	LOOP GROUP MUX
		AA0572		FILL-CABLE (CRYPTO)
FS	AA0044	CTOC COMM ASBL		
		AA0077	KY-68	TACTICAL DDC COPIER
		AA0090	KY-68	DIG-SECURE TP
		AA0094	KOI-18	TAPE READER
		AA0099	JYC-11	UNIT-LEVEL-ASC-SWITCH
		AA0102	HGX-82	LOOP KEY GEN CONTROL
		AA0108	HGX-82	LOOP KEY GENERATOR
		AA0115	KYK-13	KEY GUN
		AA0116	KYX-15	NET CONTROL DEVICE
		AA0141	TA-954	DIG NDI-SEC TP
		AA0146		MOD-RECORD-REC-TML (SNG)
		AA0149	HGX-93	TRUNK ENCRP DEVICE
DATE	08/23/81	FORCE ASSEMBLAGE FILE LISTING	ATMSP0040	PAGE 23
FORCE VR KEY NO	ASSEMBLAGE NOMENCLATURE / DESCRIPTION	PACKAGE NO.	NOMENCLATURE / DESCRIPTION	QUANTITY
FS	AA0044	CTOC COMM ASBL		
		AA0178	TD-1280	VHF TRC MULTICPLR 2 PORT

DATE 01/21/81

PACKAGE FILE LISTING

A1HSP0042

P43

ASSEMBLAGE
PACKAGE #PACKAGE
NOMENCLATURE / DESCCOMPONENT
NOMENCLATURE / DESC

QUANTITY

AA0038

TTC-39(V1)

AUTOMATIC CENTRAL OFFICE

AA0572

FILL CABLE (CRYPTO)

AA0039

TTC-39(V2)

AUTOMATIC CENTRAL OFFICE

AA0071

SHELTER

J-280

DIG SECURE TP

AA0090

KY-68

TELEPHONE SET

AA0092

TA-312

TAPE READER

AA0094

K01-18

LOOP KEY GEN CONTROL

AA0102

HGX-82

AUTO KEY DISTR GEN

AA0103

HGX-83

INTERFACE CONTROL UNIT

AA0104

HGX-84

KEY VARIABLE GENERATOR

AA0105

KG-83

LOOP KEY GENERATOR

AA0108

KG-82

TRUNK ENCRYPT DEVICE

AA0109

KG-81

KEY GUN

AA0115

KYK-13

NET CONTROL DEVICE

AA0116

KXK-15

COMMON EQUIP FRAME

AA0227

HGF-82

ENV CON UNIT 18K BTU

AA0229

HGF-91

FRAME (TED)

AA0233

HYP-71

RECHARGER BTRY PWR SUPPLY

AA0236

KIK-18

CODE CHANGER KEY

AA0239

KG-82 DVP

LOOP KEY GENERATOR (DVP)

AA0248

HGX-82 DVP

FILL CABLE (CRYPTO)

AA0254

HGF-93

FRAME (TED)

AA0572

HGF-93

FRAME (KADC)

AA0040

TTC-42(V2)

AUTO TP CEN OFFICE (150L)

AA0090

KY-68

DIG SECURE TP

AA0094

K01-18

TAPE READER

AA0108

KG-82

LOOP KEY GENERATOR

AA0109

KG-81

TRUNK ENCRYPT DEVICE

AA0115

KYK-13

KEY GUN

AA0116

KYK-15

NET CONTROL DEVICE

AA0233

HGF-91

FRAME (TED)

AA0236

HYP-71

RECHARGER BTRY PWR SUPPLY

AA0238

KGX-93

AUTO KEY DISTR GEN

AA0239

KIK-18

CODE CHANGER KEY

AA0241

HGF-94

FRAME (TED)

AA0248

KG-82 DVP

LOOP KEY GENERATOR (DVP)

AA0572

HGF-93

FILL CABLE (CRYPTO)

AA0576

HGF-93

FRAME (KADC)

AA0041

SB-3865

AUTO SWBD (30L)

AA0090

KY-68

DIG SECURE TP

AA0094

K01-18

TAPE READER

AA0115

KYK-13

KEY GUN

AA0116

KXK-15

NET CONTROL DLVICE

AA0149

KG-93

TRUNK ENCRYPT DLVICE

AA0236

HYP-71

RECHARGER BTRY PWR SUPPLY

AA00444

ID-1235

LOOP GROUP MUX

END ITEM ASSOCIATED/ANCILLARY EQUIPMENT LIST BY FORCE

ITEM KEY NR	ASSOC KEY NR	NOMENCLATURE	ASSOC QUANT	EQUIP = UNIT QUANT			SELECTED FORCE			
				ACT	NG	RES	ACT	NG	RES	TOT
AA0140		TS-3647 CABLE ORDERWIRE UNIT		300	250	200	750	6	4	2
	AA0090	B-5599 BATTERY	2	600	500	400	1500			
	AA0091	H-182 HEADSET	1	300	250	200	750			

EXAMPLE

THIS OUTPUT PROVIDES THE TOTAL END ITEMS, BOTH STAND ALONE AND AS PART OF ASSEMBLAGES WITHIN A FORCE MODEL OR SELECTED FORCE. THE AMOUNT OF ASSOCIATED AND/OR ANCILLARY ITEMS FOR THESE END ITEMS ARE SHOWN BY ACTIVE ARMY, NATIONAL GUARD, RESERVE AND TOTAL FORCE.

FIGURE 13

QUANTITY

PACKAGE

ADJ355

ADJ355

ADJ355

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

COMMON EQUIP FRAME

ADJ355

ADJ355

2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

4

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

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AUTOMATIC CENTRAL OFFICE

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ADJ355

FRAME (TDC)

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AUTOMATIC CENTRAL OFFICE

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FRAME (TDC)

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AUTOMATIC CENTRAL OFFICE

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ADJ355

FRAME (TDC)

ADJ355

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2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

1

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

2

AUTOMATIC CENTRAL OFFICE

ADJ355

ADJ355

FRAME (TDC)

ADJ355

ADJ355

FIGURE 14

EQUIPMENT LIST F-5 IS A LISTING OF THE INTACS OBJECTIVE SYSTEM WHICH IS DERIVED FROM THE MASTER EQUIPMENT FILE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY N - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE, ACRONYM, DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. EOP N - BASIS OF ISSUE PLAN FOR FUTURE EQUIPMENT.
4. LINE N - LINE-ALPHABETIC LINE ITEM NUMBER IDENTIFICATION OF A GENERIC NOMENCLATURE.
5. SSN - STANDARD STUDY NUMBER - FUNDING NUMBER ASSIGNED TO APPROVED PROCUREMENT ITEMS.
6. ACN - ACTION CONTROL NUMBER ASSIGNED TO TRACK ALL ACTIONS PERTAINING TO A PROGRAM.
7. FUND YR - INITIAL FUNDING YEAR.
8. IDC - INITIAL OPERATIONAL CAPABILITY - TIME WHEN EQUIPMENT AND TRAINED PERSONNEL CAN BE DEPLOYED.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3,1981 00).

THIS REPORT IS AVAILABLE ONLY BY EQUIPMENT CATEGORY, BUT MAY BE SORTED BY ANY COLUMN WITHIN CATEGORY.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTODON 730-3182/3671.

DATE 03/04/81

EQUIPMENT FILE FORCE MODEL# F5
BY KEY NUMBER

AIIHSP0077

KEY #	NOMENCLATURE	ACRONYM	DESCRIPTION	80 P #	LINE #	SSN	ACN	YR	LOC	REMARKS
TACTICAL COMMUNICATIONS CONTROL FACILITIES										
AAC058	TSQ-111(V1)	CNCE I	COMM MODAL CTRL ELEM	770002	21406		23425	80	285	
AAC059			HSE CONTROL FACILITY CSCE				56190	85	488	
AAC075	TYQ-15	CSCE	COMM SYS CTRL ELEM	770005	216432		23278	82	286	
AAC0116	TSQ-111(V3)	CNCE III	COMM MODAL CTRL ELEM	800155	216404		23425	80	285	
AAC0324	MSC-31		OPERATIONS CEN COMM		N20115		00000	75	N/A	

SWITCHING

AAC038	TTC-33(V1)	CS	AUTOMATIC CENTRAL OFFICE	790046	214284		22720	81	383	
AAC039	TTC-33(V2)	CS	AUTOMATIC CENTRAL OFFICE	790047	214285		22720	81	383	
AAC040	TTC-42(V2)	ULCS	AUTO TP CEN OFFICE (150L)	780250	294982		23442	82	186	
AAC041	SB-3865	ULCS	AUTO SWBD (30L)	780251	294980		23442	82	186	
AAC042	SB-3855	ULCS	AUTO SWBD (60L)				23442	82	186	
AAC043	SU-22		SWBD TELEPHONE MANUAL	U81707			23470	75	281	
AAC056	TYC-33	MS	AUTO MESSAGE SW/OX-54	760098	242430		22720	81	182	
AAC059	TTC-42(V1)	ULCS	AUTO TP CEN OFFICE (75L)	770021	294981		23442	82	186	
AAC058		COMM MOD	COMM MODULE (ULMS)				00000	00	N/A	
AAC0119	SB-993		SWITCHBOARD MANUAL				00000	75	N/A	

TERMINALS

AAC053	C-670?	BNRJD	COMM CONTROL UNIT	E95072					281	
AAC053		HSE-AU	ACCESS UNIT	243580			56190	85	488	
AAC053	KV-90	SDNRJU	DGTL NET RAD INT UNIT	265089			24293	81	286	
AAC053	TA-933		TELEPHONE SET	V31305	834506		23415	75	177	
AAC090	KV-68	DSVT	DIG SECURE TP	275007			38505	79	383	
AAC091	HYX-68/TSEC		EXTENSION TEL	226429			38505	79	N/A	
AAC092	TA-312		TELEPHONE SET	V31211	869606		23470	75	N/A	
AAC095	TA-1		TELEPHONE SET	V30252			00000	75	N/A	
AAC097	TA-287		REPEATER TELEPHONE	R80360			00000	75	N/A	
AAC121		MSI	MOBILE SUB TERM (TERM)	243587			20817	85	488	
AAC131	TA-954	DNVT	DIG NON-SEC TP	22159			23415	81	183	
AAC150		CV-DGTL	SECURE CONVERTER (1 PURY)	204837	770153		38508	82	486	
AAC156	CV-3592	ANDVT	ADV NB DIG VOC TERM	208399			20786	84	185	
AAC161	TA-973	SVAT	TELEPHONE SIG INTERFACE	235146	829440		16472	80	483	
AAC169	TA-264		TELEPHONE SET	V30937			00000		N/A	
AAC170	TA-341		TELEPHONE SET	V31243			00000		N/A	
AAC171	TA-531		TELEPHONE SET	278658	859100		23415		177	
AAC177	TA-236		TELEPHONE SET	V30663			00000		N/A	
AAC175		PLRS	PLRS BASIC UNIT	780161			23559		484	
AAC177		PLRS	PLRS MANPACK KIT	780162			23559		484	
AAC179		PLRS	PLRS SURFACE VEH KIT	780163			23559		484	
AAC180		PLRS	PLRS AIRBORNE VEH KIT	780164			23559		484	

DATE 03/16/91

DAPL CDP SRC/TOE

UTC

EDATE

JUNIT TYPE

LCC

STN NAME

UNIT

A11NSP0007

PAGE 045

00 174 87 00
3 113034800
1 113051000
1 113061000
1 113071100
1 113071100
1 113071100
1 113081100
1 113081100
1 113276700
1 113276700
1 113276700
1 113456600
2 113536700
2 113596700
1 113671700
1 113671700
1 113671700
1 113671700
1 113671700
1 113671700
1 113686900
3 113686900
1 114024700
1 114024700
1 114024700
2 114024700
2 114024700
1 114038800
1 114038800
2 114054710
2 114054710
1 114054720
1 114054720
1 114054720
1 114124800
1 114154620
1 114154620
1 114154620
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2 114154620
2 114154620

821001 CO RADIO OPERATING
850910 BN HHD
860910 BN HHD
851004 CO SIG SWITCHING
841001 CO SIG SWITCHING
841004 CO TELCOM CTR OPS
821004 CO TELCOM CTR OPS
850710 CO LARGE 40 JP
870710 CO 3PILARGE-HQ
830911 BN OPERATIONS
820920 CO MESSENGER
821001 CO MESSENGER
820910 CO TRJDP LIGHT
850810 CO TRJDP LIGHT
830910 CO TRJDP LIGHT
810116 CO TRJDP LIGHT
841002 CO TRJDP HEAVY
811005 CO TRJDP HEAVY
870930 CO TRJDP HWY
811016 HHC SIG BDE CORPS
830912 HHC BDE ARMY
811001 HHC CORPS SIG BDE
821001 HHC CORPS SIG BDE
800701 HHC CORPS SIG BDE
830104 CO TACSAT
820104 CO TACSAT
841001 BN CND OPS MAYTEL
800501 BN CORPS CND OP
811016 CO
811016 BN CND OPS SIG
820316 BN CORPS
841001 HHD CORPS SIG BDE
850820 BN BN ARMY AREA (-)
850820 BN BN ARMY AREA (-)
851004 BN CORPS AREA SIG
820930 BN ARMY AREA
811016 BN ARMY AREA
870910 BN CORPS AREA SIG
870910 BN CORPS AREA SIG (+)
870820 BN CORPS AREA
870810 BN CORPS AREA SIG
870810 BN CORPS AREA
870810 BN CORPS AREA
841001 BN CORPS AREA SIG
870510 BN ARMY
870910 BN CORPS AREA
870310 BN OPERATIONS
870310 BN CORPS AREA SIG
870810 BN CORPS AREA
870310 BN CORPS AREA
870310 BN CORPS AREA
870810 BN CORPS AREA

KEY NUMBER	NOMENCLATURE	LINE NUMBER	FORCE MODEL	DOI	CATEGORY
AA0001	TIC-174	254160	F4 F5	F5	01
AA0002	ACS COMM ASBL		F5	F5	13
AA0003	TSC-93	334895			01
AA0004	TSC-93	334895	F2 F3 F4		02
AA0005	TSC-151	092599	F2 F3		01
AA0006	TSC-115	336509	F2 F3 F4 F5	F5	03
AA0007	TSC-152	R78067	F2 F3		01
AA0008	ACK CP COMM TRACK		F5	F5	13
AA0009	TSC-85A		F2 F3 F4		01
AA0010	TSC-93A		F2 F3 F4		01
AA0011	ACK CP COMM SPT TRACK		F5	F5	13
AA0012	ACS CP COMM TRACK		F5	F5	13
AA0013	A/4 RDE CP COMM TRACK		F5	F5	13
AA0014	TAC-170(V13)		F5	F5	01
AA0015	TAC-170(V12)		F5	F5	01
AA0016	TSC-151		F5	F5	01
AA0017	TSC-1M		F5	F5	01
AA0018	DIV SSO COMM ASBL		F5	F5	13
AA0019	TSC-86	334827	F2 F3 F4		01
AA0020	TSC-85	552242	F1 F2 F3 F4		01
AA0021	MSC	263586	F5	F5	01
AA0022	TSC-102	250565	F2 F3		02
AA0024	MS77		F5	F5	13
AA0025	GSC-103(V41)	254361	F2 F3 F4	F5	01
AA0026	BN CP COMM TRACK		F5	F5	13
AA0027	TSC-1025	H35599	F2 F3		02
AA0028	SL-1139		F2 F3 F4 F5	F5	15
AA0029	TSC-1069	121130	F2 F3 F4 F5	F5	02
AA0030	TSC-97	220150	F2 F3 F4 F5	F5	02
AA0031	OTIC COMM ASBL		F5	F5	13
AA0032	OTIC STAFF COMM ASBL		F5	F5	13
AA0033	OTIC COMM ASBL		F5	F5	13
AA0034	FA/C/SPT BN COMM ASBL		F5	F5	13
AA0035	DIV/RDE COMM ASBL		F5	F5	13
AA0036	DIV RICC COMM ASBL		F5	F5	13
AA0037	BN COMM ASBL		F5	F5	13
AA0038	TIC-39(V11)	216236	F3 F4 F5	F5	04
AA0039	TIC-39(V12)	216285	F3 F4 F5	F5	04
AA0040	TIC-42(V12)	296982	F4 F5	F5	04
AA0041	SS-3865	296980	F4 F5	F5	04
AA0042	SS-3865		F4 F5	F5	04
AA0043	SS-3865		F4 F5	F5	04
AA0044	CIOC COMM ASBL	001707	F1 F2 F3 F4 F5	F5	04
AA0045	CIOC STAFF COMM ASBL		F5	F5	13
AA0047	S-250		F1 F2 F3 F4 F5	F5	11
AA0048	BCS		F4 F5	F5	07
AA0050	TSC-99	211116	F4 F5	F5	07
AA0051	GRC-122(V12)		F2 F3		07
AA0052	TAC-173	257270	F4 F5	F5	01
AA0053	C-6709	E95072	F2 F3 F4 F5	F5	05
AA0054	C3PE		F4 F5	F5	03
AA0055	PAC-113	255876	F2 F3 F4 F5	F5	07
AA0056	TVC-39	242630	F3 F4 F5	F5	04
AA0058	TSC-111(V11)	216405	F3 F4 F5	F5	03
AA0059	TIC-42(V11)	296981	F4 F5	F5	04

FIGURE 17

ATMSP0013

CONDENSED BOP LISTING

DATE 04/09/81

KEY NUMBER

T D E

QTY

11036H000
11086H200
11117H710
11137H720
11175H200
11237G800

78
207
12
12
46
14

11347G600
11616H610
11616H620
11625H700
11629H702
11500G81
11500G84
11500G87
11540H511
11540H51K
11540H51T
44236H410
44236H420
44246H210
44246H220
44266H500
44536H200

128
175
375
55
3
2
3
8
3
3
8
15
15
15
15
13
15

11357G600
11407H720
11409H728
11417H620
11439H900

1
2
2
1
2

11327G700

2

11037H000
11039H000
11127H700
11147C700
11207H100
11217H300
11218H300
11523H65C

2
2
2
1
3
2
1
1

01252H200
05026H300
05052H600
05101H610
05101H620
05146H700
05156H700
05216H100
06116H000
05155H300
06166H000
06186H000
05201H300
06206H300
06302H000
06366H000
06376H000
06376H020

2
1
1
1
1
1
1
1
2
2
2
2
4
2
2
2
2
2

GENERIC TDE FILE BY FORCE F-5 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE UNITS IN THE FORCE AND THE EQUIPMENT AND QUANTITIES ASSIGNED TO EACH.

THE INTERSECTION NUMBER SYSTEM - UNIT IDENTIFICATION
1. THE UNIT NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. REV NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - QUANTITY OF EQUIPMENT PER EACH TDE.
NOTES: 1. TDE L QUAN BASED ON COMBINATION OF INTRAC OBJECTIVE SYSTEM & APPROVED DOLPS.
2. EXAMPLE TDE- 11-035H000 - INTRAC PLANNED TDE
11-035H000 - REAL TDE

LAST REVISION TO THE DATA BASE WAS MADE ON REVISION DATED 100 MAR 8, 1981 001.

QUESTIONS SHOULD BE ADDRESSED TO JBASC-SIMO AUTOVON 700-3182/3671.

GENERIC TDE FILE BY FORCE F-5 OBJECTIVE SYSTEM PROVIDES A LISTING OF ALL THE UNITS IN THE FORCE AND THE EQUIPMENT AND QUANTITIES ASSIGNED TO EACH.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. SRC / TDE / TIF NAME - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TDE.

NOTES: 1. TDE & QUAN BASED ON COMBINATION OF INTACS OBJECTIVE SYSTEM & APPROVED BOIPS.
2. EXAMPLE TDE- 11-035H000 - INTACS PLANNED TDE
11-035H000 - REAL TDE

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATED) 00 MAR 9, 1981 00J.

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SING AUTDVON 780-3182/3671.

SAME FORMAT AS FIGURE 19A BUT WITH 'COMPONENT ONLY' ITEMS AT END OF RUN.

FIGURE 20A

GENERIC BDI FILE BY FORCE P-S OBJECTIVE SYSTEM PROVIDES A LISTING OF ALL THE EQUIPMENT IN THE FORCE, THE TOE
AND THE AMOUNT OF EQUIPMENT IN EACH TOE.

THE FOLLOWING INFORMATION IS FURNISHED:

1. KEY # - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
3. TOE NR / TOE NAME - UNIT IDENTIFICATION.
4. EQ QUAN - AMOUNT OF EQUIPMENT PER EACH TOE.

NOTES: 1. TOE C QUAN BASED ON COMBINATION OF INTACS OBJECTIVE SYSTEM & APPROVED BOIPS.

2. EXAMPLE TOE- J1-035H000 - INTACS PLANNED TOE

11-035H000 - REAL TOE

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3,1901 00).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SINO AUTVQDN 700-3102/3671.

17E 03/16/81

FORCE MODEL GENERIC B01

ATMSP0048

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KEY B V44ENCLOSURE/DESCRIPTION

0037

3N C044 ASBL

TDE V TDE NAME

QTY

06375H000	BN 155 SP	2
06395H000	BN 81N SP	2
06405G000	BN 105 T	2
06405H000	BN 105 T	2
06425H000	BN 155 T	2
06445H000	BN 81N SP	2
06455H000	BN 155 SP	2
06475G000	BN TARGET ACQ-(QTY C.)	2
06577G000	BN ACU	2
06705H000	BN 105 T AIRMOBILE	2
06715H000	BN 155 T AIRMOBILE	2
06725H000	BN AERIAL ARTY	2
07015H000	BN	2
07035H000	BN AIRMOBILE	2
17215H000	BN TANK	2

0038 TTC-33(V1)

AUTOMATIC CENTRAL OFFICE

11407H000	SIG SW CO CORPS	2
11409H000	SIG SPT CO C4D OP BN	2
11415H000	SIG BN AREA (1+3)	3
11417H000	CDT SIG TELECOM CO	1
11435H000	SIG CND OP BV, ABN-CORPS	1
11437H000	SIG SW CO, ABN-CORPS	1
11506G000	CD TERMINAL OPS	1
11901H000	SPEC REQ	1

0039 TTC-33(V2)

AUTOMATIC CENTRAL OFFICE

11305H000	CND SPT BN, TA	2
11307H000	SIG SW CO	2
11901H000	SPEC REQ	1

0060 TTC-42(V2)

AUT TP CEN OFFICE (150L)

11127H000	SIG OPS CO MED HQ	2
11147H000	SIG JPS CO S4L HQ	1
11435H000	SIG CND OP BV, ABN-CORPS	2
11439H000	SIG SPT CO, ABN-CORPS	2
11901H000	SPEC REQ	2

0061 SB-3855

AUTD SUBD 830LJ

01165H000	BN ASLT SPT HEL	1
05052G000	HHC GRP COMBAT	1
05101G000	HHC BDE COMBAT	1
05112G000	HHC GRP CONSTRUCTION	1
05145H000	ENG BN	1
05155H000	BN	1
06201H000	44B DIV ARTY	2
06302H000	HMB DIV ARTY	2
06615G000	BN H4B PERSHING	1
06616H000	BN H4B PERSHING	1
06701H000	HMB DIV ARTY	1
07015H000	BN	1
07042H000	HHC BDE	2

THE FILE BY FORCE F-5 (PROJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE TOES IN THE FORCE THAT CONTAIN THE SELECTED EQUIPMENT, THE EQUIPMENT AND QUANTITY IN EACH TOE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. SRC / TOE / TOE NAME - UNIT IDENTIFICATION.
2. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. TOE QUANT - AMOUNT OF EQUIPMENT PER EACH TOE.
5. ACT/EO - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
6. NG/EO - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.
7. RES/EO - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
8. TOT/EO - TOTAL EQUIPMENT IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 00).

QUESTIONS SHOULD BE ADDRESSED TO JSASC-SINO AUTDVON 780-3182/3671.

DATE 03/17/81

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TOE # TOE NAME

FORCE MODEL TDE

AIIHSP0008

EQUIPMENT - UNJT * QUANTITY

ACT NAT RES TOT

**FORCE MODEL F-5 **

NOTE: AY * IV TDE DEVOTES A COMPONENT

11616H*** HHC SIG BN Y

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0052	TRC-173	2	
AA0055	PRC-113	2	
AA0056	TTC-39	1	
AA0059	TTC-42(V1)	1	
AA0067	RADIO REPEATER SET	2	
AA0068	AB-2315	4	
AA0075	TYQ-16	1	
AA0077	CONK SYS CTRL ELEM	1	
AA0080	TACTICAL DDC COPIER	1	
AA0082	DTIL NET RAD INT UNI	1	
AA0090	REMOE CONTROL	2	
AA0091	DIG SECURE TP	5	
AA0092	HYX-68/TSE	10	
AA0095	TA-312	9	
AA0106	TELEPHONE SET	6	
AA0112	TA-1	0	
AA0115	SPEECH SECURITY EQUI	0	
AA0118	KG-84	6	
AA0119	KEY GUN	0	
AA0120	TSQ-111(V3)	1	
AA0134	SWITCHBOARD MANUJL	1	
AA0137	REMOE MUX COMBINER	2	
AA0141	TD-1233	1	
AA0143	UXC-4	1	
AA0146	MOD TACT COM CEN	1	
AA0150	DIG NON-SEC TP	40	
AA0193	REMOE LOOP GROUP MU	2	
AA0194	TRC-175	2	
AA0327	RADIO TERMINAL SET	1	
	SECURE CONVERTER (1)	1	
	TACSAT S/C TERMINAL	1	
	RADIO SET VEHICLE	3	
	RADIO SET VEHICLE	3	
	MESSAGE CENTER	1	

TOTALS

11617H*** CBT SIG TELE

KEY #	NAME/CLATURE/DESCRIPTION	QUAN	EQ
AA0001	TRC-174	9	
AA0038	TTC-39(V1)	1	
AA0043	SB-22	1	
AA0052	TRC-173	3	
AA0050	TSQ-111(V1)	1	
AA0059	TTC-42(V1)	3	
AA0060	TD-1219	40	
AA0061	TD-1218	35	
AA0067	TRC-138	3	
AA0077	HYX-68	1	
AA0080	TYQ-16	1	
AA0082	CONK SYS CTRL ELEM	1	
AA0090	TACTICAL DDC COPIER	20	
AA0091	DTIL NET RAD INT UNI	40	
AA0092	REMOE CONTROL	9	
AA0095	DIG SECURE TP	6	
	HYX-68/TSE		
	TA-312		
	TA-1		

SAME FORMAT AS FIGURE 22A BUT WITH 'COMPONENT ONLY' ITEMS AT END OF RUN.

FIGURE 23

BDI FILE BY FORCE F-3 (OBJECTIVE SYSTEM) PROVIDES A LISTING OF ALL THE EQUIPMENT IN THE FORCE, THE AMOUNT IN EACH TDE, THE TOTALS OF EACH TDE, AND THE TOTALS OF EQUIPMENT IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.

2. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.

3. TDE NR / TDE NAME - UNIT IDENTIFICATION.

4. EQ QUANT - AMOUNT OF EQUIPMENT PER EACH TDE.

5. ACT/ED - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.

6. NS/EO - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.

7. RES/ED - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.

8. TOT/ED - TOTAL EQUIPMENT IN THE FORCE.

9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.

10. NS - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.

11. RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.

12. TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE HAS MADE ON (REVISION DATE) 100 MAR 3, 1981 (00).

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DATE 03/16/81

FORCE MODEL BDI

AIIMSP0028

PAGE

[illegible]

TUE #

TDE NAME

EQ. EQUIP. - UNIT. & QUANTITY

[illegible]

005-1 730th 32nd0500

140037

064054000
054234000
054454000
054534000
055735000
055775000
067054000
067254000
057254000
070154000
070354000
172154000

BY IDS T
BY IDS T
BN 9IN SP
BY 155 SP
BN TARGET
BY ACQ
BN IDS T
BY 155 T
BY AERIAL
BN AIRMOB
BY TANK

NNNNNNNNNNNN

TOTALS

440038 YIC-330011 AUTOMATIC CENTRAL OF

11407H00
11407400
11415400
11417H00
11435400
11437400
11505600
11701400

SIG SW CD CORPS
SIG SPT CD CMD OP
SIG BN AREA 11031
CBY SIG TELECOM C
SIG CMD JP BV ABY
CD TERMINAL OPS
SPEC REQ

NNNNNNNNNN

TOTALS

140039 TIC-30(V2) AUTOMATIC CENTRAL OF

113054000
113074000
113014000

CNO SPT BN.YG
SIG SW CO
SPEC REQ

22

TOTALS

40060 TIC-62(V2) AUTO TP CEN OFFICE

11127H●●
11147H●●
111354●●
11133H●●
11301H●●

SIG OPS CO MED HQ
SIG OPS CO S4L H2
SIG CHQ DP BV, ABV
SIG SPT CO, ABN-CO
SPEC REG

2-2-2-2

TOTALS

170E1 C6RS 01NY 596E-05 1900V

01165400
05052500
05101500
05112600
05145400
05155400
06201400
05302400
05091600

BN 45LT SPT HEL
MHC GRP COMBAT
44C 3DE COMBAT
MHC GRP CONSTRUCT
ENG BN
BN
MHB DIV ARTY
MHB DIV ARTY
BN MHB PERFORMING

.....

EQUIPMENT SUMMARY BY FORCE (1-5 SUBJECTIVE SYSTEM) PROVIDES EQUIPMENT AND UNIT TOTALS BY ACTIVE ARMY, NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

- 1- KEY NUMBER - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE.
- 2- NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
- 3- ACT/EO - TOTAL ACTIVE ARMY EQUIPMENT IN THE FORCE.
- 4- NG/EO - TOTAL NATIONAL GUARD EQUIPMENT IN THE FORCE.
- 5- RES/EO - TOTAL ARMY RESERVE EQUIPMENT IN THE FORCE.
- 6- TOT/EO - TOTAL EQUIPMENT IN THE FORCE.
- 7- ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
- 8- NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
- 9- RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
- 10- TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3,1981 00).

QUESTIONS SHOULD BE ADDRESSED TO JSASE-SINO AUTODON 740-3182/3671.

DATE 03/17/81

FORCE MODEL EQUIPMENT SUMMARY

ATINSP0097

PAGE 3

KEY # NOMENCLATURE/DESC

EQUIPMENT - UNIT * QUANTITY

*****ASSEMBLAGES*****
 ACT IRMV MAT GUARD RES ARMY TOT/EO ACT MAT RES TOT

FORCE MODEL F-5 TACTICAL COMMUNICATIONS CONTROL FACILITIES

AA0118 TSC-1111113
 AA0324 MSC-31

COMM MODAL CTRL ELEM
 OPERATIONS CEN COM

FORCE MODEL F-5 SWITCHING

AA0039 TTC-391111
 AA0039 TTC-391112
 AA0040 TTC-421112
 AA0041 SR-3865
 AA0042 SP-3865
 AA0043 SR-22
 AA0044 TTC-39
 AA0045 TTC-421111
 AA0046 COM MOD
 AA0119 SB-993

AUTOMATIC CENTRAL OFFICE
 AUTOMATIC CENTRAL OFFICE
 AUTO TP CEN OFFICE (150L)
 AUTO SW3 (30L)
 AUTO SWDO (60L)
 S48D TELEPHONE MANJAL
 AUTO MESSAGE SW/OX-56
 AUTO TP CEN OFFICE (75L)
 COMM MODULE (ULHS)
 SWITCHBOARD MANUAL

FORCE MODEL F-5 TERMINALS

AA0053 C-5709
 AA0053 HSE-AU
 AA0050 KY-90
 AA0033 TA-938
 AA0090 KY-68
 AA0091 HYC-68/TSEC
 AA0092 TA-312
 AA0095 TA-1
 AA0097 TA-287
 AA0121 MSF
 AA0141 TA-954
 AA0150 CV-DGTL
 AA0204 CV-3591
 AA0221 TA-978
 AA0339 TA-264
 AA0340 TA-341
 AA0341 TA-938
 AA0357 TA-236
 AA0396 PLRS
 AA0397 PLRS
 AA0399 PLRS
 AA0400 PLRS
 AA0401 PLRS
 AA0402 PLRS
 AA0447 TA-904
 AA0465 CV-DGTL
 AA0469 PLRS
 AA0470 PLRS
 AA0471 PLRS

COMM CONTROL UNIT
 ACCESS UNIT
 25TL NET RAD INT UNIT
 TELEPHONE SET
 DIG SECURE TP
 EXTENSION TEL
 TELEPHONE SET
 TELEPHONE SET
 REPEATER TELEPHONE
 MOBILE SUB TERM (ITER1)
 DIG VOV-SEC TP
 SECURE CONVERTER (1 PORT)
 ADV NO DIG VOC TERM
 TELEPHONE SIG INTERFACE
 TELEPHONE SET
 TELEPHONE SET
 TELEPHONE SET
 TELEPHONE SET
 PLRS BASIC UNIT
 PLRS MAPACK KIT
 PLRS SURFACE VEH KIT
 PLRS AIRBORNE VEH KIT
 PLRS AUX GRND KIT
 PLRS PORTABLE TEST UNIT
 DIG VOV-SEC TP (NOV-RUG)
 SECURE CONVERTER (3 PORT)
 PLRS MAPACK UNIT
 PLRS SURFACE VEH UNIT
 PLRS AIRBORNE VEH UNIT

FORCE MODEL F-5 RECORD-TRAFFIC

EQUIPMENT ASSEMBLAGES BY FORCE F-5 (COLLECTIVE SYSTEM) PROVIDES THE NUMBER OF ASSEMBLAGES, AMOUNT OF COMPONENTS PER ASSEMBLAGES, AND TOTALS OF COMPONENTS IN THE FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. ASBL KEY # THE PERVAIENT NUMBER OF AN EQUIPMENT IN THE DATA BASE
2. COMP KEY # THE COMPONENT NUMBER IN THE DATA BASE.
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. QUAN/ASBL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
5. ACT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
6. AG/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
7. RES/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
8. TOT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. AG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
- RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
- TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) (00 MAR 3, 1981 00).

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIND AUTODON 780-3182/3671.

DATE 03/17/81

EQUIPMENT ASSEMBLAGES BY FORCE

A1HSP0093

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KEY NO. KEY NO.

NOMENCLATURE / DESC

QUAN-
ASBL

EQUIPMENT - UNIT * QUANTITY

*****ASSEMBLAGES*****
ACT ARMY NAT GUARD RES ARMY TOT/EO*****OF UNITS*****
ACT MAY RES TOT

**FORCE MODEL F-500 TACTICAL COMMUNICATIONS CONTROL FACILITIES

KEY NO.	KEY NO.	NOMENCLATURE / DESC	QUAN- ASBL	EQUIPMENT - UNIT * QUANTITY
A10118	A10471	TSQ-111(V3)		
A10102	HGX-82	COMM MODAL CTRL ELEM	002	
A10103	HGX-83	LOOP KEY GEN CONTROL	001	
A10105	KG-83	AUTO KEY DISTR GEN	001	
A10106	KG-82	KEY VARIABLE GENERATOR	015	
A10109	KG-81	LOOP KEY GENERATOR	012	
A10111	KY-58	TRUNK ENCRYPT DEVICE	001	
A10115	KY-13	SPEECH SEC EQUIP ABN	001	
A10116	KY-15	KEY GJN	001	
A10151	MD-1024	NET CONTROL DEVICE	001	
A10152	MD-1023	HS CABLE DVR MDDEN	006	
A10153	MD-1025	LS CABLE DVR MDDEN	004	
A10227	HGF-82	RLGH-CABLE DVR MDDEN	001	
A10229	KIK-18	COMMON EQUIP FRAME	001	
A10239	HGF-92	ENV CRY JNIT 18K DTU	001	
A10242	LS-147F	CODE CHANGER KEY	002	
A10304		FRAME (LKG)	002	
A10572		INTERCOM	001	
		FILL CABLE (CRYPTO)	001	

**FORCE MODEL F-500 SWITCHING

KEY NO.	KEY NO.	NOMENCLATURE / DESC	QUAN- ASBL	EQUIPMENT - UNIT * QUANTITY
A10033	TTC-39(V1)	AUTOMATIC CENTRAL OFFICE	002	
A10050	KY-68	DIG SECURE TP	001	
A10094	KOI-18	TAPE READER	003	
A10102	HGX-82	LOOP KEY GEN CONTROL	002	
A10103	HGX-83	AUTO KEY DISTR GEN	002	
A10104	HGX-84	INTERFACE CONTROL UNIT	002	
A10105	KG-83	KEY VARIABLE GENERATOR	019	
A10106	KG-82	LOOP KEY GENERATOR	006	
A10109	KG-81	TRUNK ENCRYPT DEVICE	002	
A10115	KY-13	KEY GJN	002	
A10116	KY-15	NET CONTROL DEVICE	001	
A10232	HGF-85	COMMON EQUIP FRAME	002	
A10233	HGF-91	FRAME (TED)	002	
A10236	HY-71	RECHARGER BTRY PWR SUPPLY	001	
A10239	KIK-18	CODE CHANGER KEY	013	
A10248	KG-82 DVP	LOOP KEY GENERATOR (DVP)	001	
A10254	HGX-82 DVP	LOOP KEY GEN CONTROL (DVP)	001	
A10572		FILL CABLE (CRYPTO)	001	
A10039	TTC-39(V2)	AUTOMATIC CENTRAL OFFICE	002	
A10371	S-280	SHELTER	002	
A10390	KY-68	DIG SECURE TP	001	
A10392	1A-312	TELEPHONE SET	001	
A10394	KOI-18	TAPE READER	005	
A10102	HGX-82	LOOP KEY GEN CONTROL	002	
A10103	HGX-83	AUTO KEY DISTR GEN	004	
A10106	HGX-84	INTERFACE CONTROL UNIT	004	

COMPONENTS TO ASSEMBLAGES BY FORCE F-3 (COLLECTIVE SYSTEM) EXTRACTS THE COMPONENTS OF ASSEMBLAGES AND SHOWS ALL THE ASSEMBLAGES OF WHICH THEY ARE A PART AND BY QUANTITY FOR THE ACTIVE ARMY, NATIONAL GUARD, ARMY RESERVE AND TOTAL FORCE.

THE INFORMATION UNDER COLUMN HEADINGS IS :

1. COMP KEY - THE COMPONENT NUMBER IN THE DATA BASE.
2. ASBL KEY - THE PERMANENT NUMBER OF AN EQUIPMENT IN THE DATA BASE
3. NOMENCLATURE AND DESCRIPTION - EQUIPMENT IDENTIFICATION.
4. QTY/ASBL - QUANTITY OF EACH COMPONENT PER ASSEMBLAGE.
5. ACT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR ACTIVE ARMY IN THE FORCE.
6. NG/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR NATIONAL GUARD IN THE FORCE.
7. RES/EQ - TOTAL ASSEMBLAGES AND COMPONENTS FOR RESERVE ARMY IN THE FORCE.
8. TOT/EQ - TOTAL ASSEMBLAGES AND COMPONENTS IN THE FORCE.
9. ACT - NUMBER OF ACTIVE ARMY UNITS IN THE FORCE.
10. NG - NUMBER OF NATIONAL GUARD UNITS IN THE FORCE.
- RES - NUMBER OF RESERVE ARMY UNITS IN THE FORCE.
- TOT - TOTAL NUMBER OF UNITS IN THE FORCE.

LAST REVISION TO THE DATA BASE WAS MADE ON (REVISION DATE) 100 MAR 3, 1981 001.

QUESTIONS SHOULD BE ADDRESSED TO USASC-SIAD ACTJCVN 790-3182/3671.

KEY NO.	KEY NH.	NOMENCLATURE / DESC	QUAN- ASBL	ACT ARMY NA GUARD RES ARMY	TOT/EQ	ACT	NAT	RES	TOT
•• FORCE MODEL F-5 •• CONSEC									
AAC102	(CON-T)	HGX-82							
	AA0039	TTC-39(V2)	5						
	AA0044	LOOP KEY GEN CONTROL	1						
	AA0056	AUTOMATIC CENTRAL OFFICE	6						
	AA0058	CLOC COMM ASBL	2						
	AA0075	AUTO MESSAGE SW/DX-54	2						
	AA0110	COMM MODAL CTRL ELEM	1						
	AA0118	COMM SYS CTRL ELEM	2						
	AA0137	MDD TACT COMM CEN W/U/LMS	1						
		COMM MODAL CTRL ELEM	2						
		MDD TACT COMM CEN	1						
AAC103		HGX-83							
	AA0038	TTC-39(V1)	2						
	AA0039	AUTOMATIC CENTRAL OFFICE	2						
	AA0056	TTC-39(V2)	1						
	AA0058	AUTO MESSAGE SW/DX-54	1						
	AA0118	COMM MODAL CTRL ELEM	1						
AAC104		HGX-84							
	AA0038	TTC-39(V1)	2						
	AA0039	AUTOMATIC CENTRAL OFFICE	4						
	AA0056	TTC-39(V2)	2						
AAC105		KG-83							
	AA0038	TTC-39(V1)	2						
	AA0039	AUTOMATIC CENTRAL OFFICE	2						
	AA0056	TTC-39(V2)	1						
	AA0058	AUTO MESSAGE SW/DX-54	1						
	AA0118	COMM MODAL CTRL ELEM	1						
AAC106		KG-82							
	AA0011	LOOP KEY GENERATOR	8						
	AA0031	ACR CP COMM SPT TRACK	8						
	AA0033	DLOC COMM ASBL	8						
	AA0036	DIV BICC COMM ASBL	8						
	AA0038	AUTOMATIC CENTRAL OFFICE	19						
	AA0039	AUTOMATIC CENTRAL OFFICE	40						
	AA0040	AUTO TP CEN OFFICE (150L)	12						
	AA0044	CLOC COMM ASBL	8						
	AA0056	AUTO MESSAGE SW/DX-54	48						
	AA0058	COMM MODAL CTRL ELEM	16						
	AA0059	AUTO TP CEN OFFICE (75LD)	6						
	AA0075	COMM SYS CTRL ELEM	16						
	AA0110	MDD TACT COMM CEN W/U/LMS	8						
	AA0118	COMM MODAL CTRL ELEM	16						
	AA0137	MDD TACT COMM CEN	8						
AAC107		KG-81							
	AA0001	TRUNK ENCRYPT DEVICE	3						
		RADIO REPEATER SET							

APPENDIX B
IMPACT EVALUATION PROCESSES AND PROGRAMS

1.0 INTRODUCTION

The computer outputs illustrated and described in this appendix support the impact evaluation processes discussed in Section 2.0. The data presented is sufficient to determine that the evaluation procedure is valid and can be used to detail the impacts of change to the architecture. It is assumed that this appendix will be the basis for demonstration of the evaluation process when current system problems caused by conversion to UNIVAC are corrected.

2.0 SELECTED FORCE DEFINITION

A selected force consisting of manually selected Standard Requirements Code (SRC) of various military units (Company, Battalion, Brigade) is used as a model for evaluating change impact. The size of the force selected can vary depending upon the scope of the evaluation. In selecting the force the analyst decides the quantity of each SRC to be included in the force and specifies at what level roll-up will occur. A roll-up SRC is discussed and illustrated in Section 4.1.

3.0 PERSONNEL AND EQUIPMENT COST COMPARISONS

This section illustrates the TRADOC TOE cost program TEP 19 which compares selected TOE and provides basic cost data for O&S personnel pay and allowance and equipment. These are the prime drivers of life cycle costs. The report provided by this program is in two major sections; personnel costs and equipment costs. The personnel section lists annual costs by grade and military occupation speciality (MOS) and prints out strength level and total cost difference. Table B-1 is an example of personnel cost comparison of the current TOE 11035H000 AIM Division Signal Battalion to TOE 11035S610 which is the planning TOE for the Heavy Division Signal Battalion. The last entry on this example shows a personnel strength requirement for TOE 11035H000 of 702 as compared to a personnel requirement of 801 for TOE 11035S610. By following the columns across to the extreme lower right it can be determined that the additional 99 personnel required for TOE 11035S610 will result in an additional annual cost of \$1,165,270.

SRC 110355000 TITLE SIGNAL BN. 714 DIV VS SRC 110355610 TITLE SIG BN - HMY DIV HMY-861

WITH NO CHANGES WITH NO CHANGES

PART I PERSONNEL ALLOWANCES ANALYSIS

GRADE	MOS	LEVEL 1 STRENGTH	110355000	110355610	DIFFERENCE	ANNUAL COST	TOTAL COST DIFFERENCE
			110355000	110355610			
	31V13	6	9	556,988	3-	\$85,482	\$28,494-
	31I13	1	1	\$9,498	0	\$9,498	\$0
	36C13	46	53	\$436,908	7-	\$503,394	\$66,486-
	36I13	1	1	\$9,498	0	\$9,498	\$0
	36V13	2	3	\$18,996	1-	\$28,494	\$9,498-
	41E13	1	0	\$9,498	1	\$0	\$9,498
	52C13	1	1	\$9,498	0	\$9,498	\$0
	63B13	16	25	\$151,958	9-	\$237,450	\$85,492-
	71L13	3	4	\$28,494	1-	\$37,992	\$9,498-
	72E13	24	31	\$227,952	7-	\$294,438	\$66,486-
	75B13	1	2	\$9,498	1-	\$18,996	\$9,498-
	75C13	5	6	\$47,490	1-	\$56,988	\$9,498-
	76V13	6	8	\$50,998	2-	\$75,984	\$18,996-
	81E13	1	1	\$9,498	0	\$9,498	\$0
	84B13	2	0	\$18,996	2	\$0	\$18,996
	84C13	1	0	\$9,498	1	\$0	\$9,498
	94B13	7	10	\$65,436	3-	\$94,980	\$28,494-
		214	255	\$2,032,572	41-	\$2,421,990	\$389,418-
E-3	05B13	22	14	\$184,000	8	\$117,600	\$67,200
	05C13	19	16	\$159,600	3	\$134,400	\$25,200
	26L13	1	3	\$8,400	2-	\$25,200	\$16,800-
	26Q13	0	5	\$0	5-	\$42,000	\$42,000-
	31E13	2	3	\$16,800	1-	\$25,200	\$8,400-
	31J13	6	3	\$50,400	3	\$25,200	\$25,200
	31M13	52	53	\$436,800	1-	\$445,200	\$8,400-
	31V13	6	7	\$50,400	1-	\$58,800	\$8,400-
	31S13	5	0	\$42,000	5	\$0	\$42,000
	31I13	1	0	\$8,400	1	\$0	\$8,400
	36C13	1	32	\$370,000	7-	\$436,800	\$68,800-
	36I13	2	2	\$0,400	1-	\$16,800	\$16,400-
	36V13	2	3	\$16,800	1-	\$25,200	\$8,400-
	63B13	19	22	\$159,600	3-	\$184,800	\$25,200-
	72E13	43	42	\$361,200	1	\$352,800	\$8,400
	75B13	2	1	\$16,800	1	\$8,400	\$8,400
	76C13	1	0	\$8,400	1	\$0	\$8,400
	75V13	4	3	\$33,600	1	\$25,200	\$8,400
	76V13	3	2	\$25,200	1	\$16,800	\$8,400
	84B13	4	0	\$33,600	4	\$0	\$33,600
	94B13	6	7	\$50,400	1-	\$58,800	\$8,400-
		244	238	\$2,049,600	6	\$1,999,200	\$50,400
TOTALS		702	801	\$7,377,952	99-	\$8,543,222	\$1,165,270-

As shown on Table B-2, the second section of this report compares equipment cost. For example, the last entry on this table shows that Radio Set, AN/GRC-()-(V5) costs \$1920 each. The table shows that TOE 11035H000 is not authorized any of these radios but TOE 11035S610 has an authorized allowance of 68. The last column shows that the addition of 68 of these radio sets to TOE 11035S610 will cost \$130,560. Considerable manual effort is required to sum the costs for each unit into the total cost for the entire selected force. In the future it may be possible to modify the programs illustrated in Section 4.0 below to roll-up and summarize equipment cost and O&S personnel cost in a manner similar to the effectiveness data. In addition, the output report of TEP 19 provides changes in quantity and type of signal equipment planned in the selected units, and the program identifies by MOS code and grade the number of O&M signal personnel assigned in the planned units. Manual screening is required to identify only signal personnel and equipment. When the screening process is complete, equipment change data and signal personnel evaluation data is extracted and prepared as input to the system definition and evaluation programs discussed below.

4.0 SYSTEM DEFINITION AND EFFECTIVENESS MEASUREMENT¹

4.1 SYSTEM DEFINITION MODEL (TOELIST)

This section describes previous programming actions taken to implement an Equipment Assignments to Force Units Procedure which results in a force - equipment system definition called TOELIST.

The AIIMS Data Base contains the equipment issue basis for current, three Transition and the Objective Systems of INTACS. The data base itself is classified because it contains the Program Objective Memorandum (POM) force and consequently the equipment required to support that force. By specifying an unclassified generic force model, the equipment issue basis by TOE unit in the AIIMS Data Base can be used to determine equipment requirements for a selected force.

Within the selected force file, a "roll-up" SRC is one which will represent a summation of other "sub-SRCs". For example, Table B-3 is a computer printout of the force file used to demonstrate the System Definition Program and is a doctrinal Armored Division with its associated Corps units.

¹INTACS UPDATE, Volume V, Study of Battlefield Data Systems Burden on Tactical Communications, Integrated Model Methodology, August 1979.

SRC 11035H00 TITLE SIGNAL BN, A14 DIV VS SRC 110355610 TITLE SIG BN - MVT DIV (MVT-86)

WITH NO CHANGES WITH NO CHANGES

PART II EQUIPMENT ALLOWANCE COMPARISON

LIN ITEM	DESCRIPTION	COST PER ITEM	LEVEL 1 EQUIPMENT	DIFF	COST DIFFERENCE
NUMBER			11035H00 110355610		
V14663	VOLTMETER ELECTRONIC: AN/URM-145	464.57	3	0	\$0.
V15480	VOLTMETER ELECTRONIC: ME-459/U	684.97	3	0	\$0.
Z15039	CHARGER RADIO DETECTOR: PP-4370/PD	900.00	0	6-	\$5,400.-
Z17232	COMPUTER INDICATOR: CP-6967/JD	2000.00	0	3-	\$6,000.-
Z18746	CONTROL COMMUNICATIONS MODE SELECTOR: C-103771 1GTC	2143.00	0	2-	\$4,286.-
Z19362	COPIER: DOCUMENT TACTICAL	4500.00	0	12-	\$54,000.-
Z19376	COUNTER ELECTRONIC DIGITAL READOUT: AN/USM-459	1900.00	0	3-	\$5,700.-
Z23239	ELECT KEY GENERATOR DEDICATED LOOP ENCRYPTION DEVICE: TSEC/KG-04	7750.00	0	22-	\$170,500.-
Z29421	GENERATOR SIGNAL: SG-1144 1 1/U	2200.00	0	12-	\$26,400.-
Z29536	DEL-DEVELOPMENT TERMINATED	2200.00	0	3-	\$6,600.-
Z30262	TACTICAL RECORD TRAFFIC FACSIMILE: AN/UXC-4	30000.00	0	14-	\$420,000.-
Z41636	MASK CHEMICAL-BIOLOGICAL MULTI PURPOSE	66.00	0	868-	\$57,288.-
Z45250	MULTIMETER: AN/USM-451	163.00	0	5-	\$815.-
Z49612	PLRS BASIC USER UNIT:	7600.00	0	23-	\$174,800.-
Z49816	PLRS SURFACE VEHICLE INSTALLATION KIT:	3625.00	0	23-	\$83,375.-
Z49817	PLRS PORTABLE TEST UNIT (PTU):	22200.00	0	5-	\$111,000.-
Z53161	POSITION LOCATION REPORTING SYSTEM: MASTER UNIT	303000.00	0	5-	\$1,540,000.-
Z53191	POWER PLANT ELEC DED TH: SKW 60HZ 2EA HTD ON MID3A3 AN/M30-16	24550.00	0	5-	\$122,750.-
Z53195	POWER PLANT ELEC DED TH: 10KW 60HZ 2EA HTD ON MID3A3 AN/M30-19	20200.00	0	6-	\$169,200.-
Z53232	POWER SUPPLY: HVP-27/TSEC	624.32	2	1	\$424.
Z53310	REPLACED BY P41047 01/01	400.00	0	2-	\$800.-
Z53646	RADIOMETER: TM-105/JD	160.00	0	18-	\$2,880.-
Z54328	RADIO SET: AV/GRC-(1 1-1V51	1920.00	0	68-	\$120,560.-

05145H	ERC BN	105145H	1
06300H	DIV ARTY	106302H	1
06300H	DIV ARTY	106307H	1
06300H	DIV ARTY	106365H	3
06300H	DIV ARTY	106395H	1
07045H	IRF BN	507045H	1
11035	SIG BN	111036	1
11035	SIG BN	111037	1
11035	SIG BN	111038	1
17014H	DIV HHC	117004H	1
17035H	TK BN	617035H	1
17042H	BDE HHC	317042H	1
17077H	AVN CO	117077H	1
17105H	ACS	117105H	1
19027H	MP CO	119027H	1
25002H	D1SCUM	108035H	1
25002H	D1SCUM	125003H	1
25002H	D1SCUM	129005H	1
25002H	D1SCUM	129035H	1
30165H	CELT BN	130165H	1
44325H	ADA BN	144326H	1
44325H	ADA BN	144327H	2
44325H	ADA BN	144328H	2
44325H	ADA BN	105035H	3
	CORPS UNITS	106401H	1
	CORPS UNITS	106445H	3
	CORPS UNITS	106455H	2
	CORPS UNITS	106577G	1
	CORPS UNITS	106595H	1
	CORPS UNITS	107357H	1
	CORPS UNITS	109220H	1
	CORPS UNITS	111178	1
	CORPS UNITS	131107H	1
	CORPS UNITS	133500H	2
	CORPS UNITS	141207H	1
	CORPS UNITS	144246H	1
	CORPS UNITS	144247H	4

TABLE B-3 Force Units File

The SRC 06300H given in the left-most column is a "roll-up" SRC for Division Artillery (DIVARTY). Its associated "sub SRCs" or subordinate units are listed in third column from the left and the quantity of those units in the right-most column. Other "roll-ups" are made for the Division Signal Battalion (SIG BN), Division Support Command (DISCOM), Division Air Defense Artillery Battalion (ADA BN) and for the Corps units located in the Division area. The purpose of this "roll-up" process is to allow the analyst to view the equipment requirements within certain critical functional areas i.e. fire support (DIVARTY), command and control (SIG BN), administration and logistics (DISCOM) and air defense (ADA BN).

In order to allow for broader use of this process and preclude the program from "bombing" due to a SRC that is specified in the force file but not in the AIIMS Data Base, a comparison routine was developed. Its purpose is to scan the force file input, compare with the SRCs in the specified AIIMS Force Model and alert the analyst as to those SRCs not available on file. Table B-4 is a reproduction of this Force File/AIIMS Data Base SRC Filter. At the lower left hand corner of the table in the program's output it indicates that of the SRCs contained in the force file, 06307H (Division Target Acquisition Battery), 30165H (Division CEWI Battalion) and 41207H (Corps Civil Affairs Company) are not contained in the AIIMS Data Base. At this point the analyst must either develop the equipment issue basis and inject it or delete that unit from the selected force. For the output example given later, the issue basis for SRCs 06307H and 41207H were manually derived, input to a separate data base and injected in the program. The issue basis for the CEWI Bn (30165H) was not input for the example program output.

With the foregoing inputs, the program lists the equipment quantity in each SRC, multiplies the number of like SRCs by the equipment in each and sums the total equipment by "roll-up" SRC number. Table B-5 is a sample of the output for SRC 06300H, DIVARTY.

The final step in the program sums the roll-up SRCs to arrive at the total number of each type of equipment required to support the whole selected force. Table B-6 is the sample output of the System Definition Program for the force contained in Table B-3 in terms of the INTACS Objective System equipments.

A program is available to inject changes of unit and equipments to the System as represented by TOELIST.

PROGRAM FILTER(TAPE1,TAPE2,OUTPUT)

200 READ(1,10) IUNIT
10 FLMAT(140,46)
IF (EOF(11)-EQ.1) STOP
5 100 REWIND 2
20 FLMAT(46)
IF (EOF(21)-EQ.1) GO TO 70
IF (IYCE-EG.IUNIT) GO TO 15
GO TO 100
10 15 REWIND 2
GO TO 200
70 PRINT 71,IUNIT
71 FLMAT(103,46) IS NOT IN THE FILE.,/I
REWIND 2
15 GO TO 200
END

SYMBOLIC REFERENCE MAP (R-1)

ENTRY POINTS
6211 FILTER

VARIABLES	SN	TYPE	RELOCATION	6302	IUNIT	INTEGER
6303	1106	INTEGER				

FILE NAMES	MODE	0	TAPE1	FMT	2054	TAPE2	FMT
4130 OUTPUT	FMT						

EXTERNALS	TYPE	ARGS
10F	REAL	1

STATEMENT LABELS	6231	15	6270	71	FMT	6261	20	FMT
6252 10								
6234 70								
6212 200								

STATISTICS
PROGRAM LENGTH 1008 64
BUFFER LENGTH 62048 3204
55000 CM USED

06307H IS NOT IN THE FILE
30125H IS NOT IN THE FILE
41207H IS NOT IN THE FILE

TABLE B-4 Force File/AIMS Data Base SRC Filter

Page 10 of 10

ACTUAL UNIT PRODUCTION (100-UNIT)

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TABLE B-5 Sample Roll-up Output for DIVARTY

TABLE B-6 Sample Output of
Equipment Assignment Program
for Force Listed in Table B-3
for INTACS Objective System
Equipments. (TOELIST)

TOTAL EQUIPMENTS FOR ALL UNITS		
LN	LN DESCRIPTION	QUANTITY
AA0001	TAC-174 PLO PPIR	6
AA0012	ACS CP COMM TRACK	2
AA0013	A/H BDE CP COMM TRACK	6
AA0016	TSC-1M1	3
AA0018	DIV 550 COMM ASBL	1
AA0021	HSC INBL SUB ENTRL	6
AA0024	H577 TAC CP	16
AA0026	BN CP COMM TRACK	22
AA0031	DTDC COMM ASBL	1
AA0032	DTDC STAFF COMM ASBL	1
AA0033	DISCOM COMM ASBL	1
AA0034	FASC/SPT BN COMM ASBL	3
AA0035	DIV/BDE COMM ASBL	3
AA0036	DIV/BICC COMM ASBL	1
AA0037	BN COMM ASBL	22
AA0041	SB-3045 ULSE1001	17
AA0042	SB-3045 ULSE1001	6
AA0043	SB-22	226
AA0048	BGS-OUT(BLAST COMM SYS-OUTSTA	12
AA0055	PRC-113 PTOL UNF/AH TCR	12
AA0063	AO SUCCESS UNIT	48
AA0065	HSE CONTROL FACILITY	1
AA0073	TACSAT AJ/CHTL MODEM	3
AA0077	TOELTAC DOCUMENT COPIER	16
AA0088	RY-90 SONRIU	7
AA0082	CRB-(CARIS)	703
AA0085	TAC ROD RPTR/DROPEINSERT	15
AA0090	RY-48 DSVT	16
AA0091	RY-48/TSEC EXTENSION TEL	32
AA0092	TA-312	2641
AA0099	TYC-11 ULPS (UNIT LEV HSC SMT	3
AA0106	RY-57 SPEECH SECURE EQUIP	0
AA0111	RY-58 SPEECH SECURE EQUIP	0
AA0112	RC-84 DEB LOOP ENCTP DEW	34
AA0113	GSC11TACSAT SC GND TNL	13
AA0115	RY-11/TSEC CIDE SET DEVICE	0
AA0119	TSC-1121111111 ENCL	1
AA0119	SB-993	135
AA0121	HST INBL SUB TNL	215
AA0131	VDU (VISUAL DISPLAY UNIT)	0
AA0135	TACSAT HC DAPA MODEM	3
AA0137	HYCC INBLUL TAC COMM CATE	3
AA0141	DMVT TA-954	420
AA0146	HRTY-SS1100D REC TPC TNL-SNGL	39
AA0147	TATP	49
AA0150	CONVERTER.CV-DGTL	200
AA0183	TACSAT SC VEH TNL	30
AA0185	PSC-1 TACSAT HANDPACK TNL	2
AA0186	HSC-65 TACSAT TNL	13
AA0187	PRC-40 J L UNIT TCR	250
AA0188	PRC-70 ROD SET	14
AA0191	GRCE11V11HNP-SINCCARS	543
AA0192	GRCE11V21VEN-SINCCARS	293
AA0193	GRCE11V31VEN-SINCCARS	805
AA0194	GRCE11V41VEN-SINCCARS	711
AA0195	GRCE11V51AIR-SINCCARS	220
AA0196	GRCE11V71VEN-SINCCARS	92
AA0197	GRCE11V1011-SINCCARS	592
AA0197	CS2-80	4
AA0199	TA-764	2
AA0366	VIC-1	150
AA0376	ARC-114	1
AA0377	ARC-116	1
AA0378	TSC-01	1
AA0380	TSC-71	1
Q50421	BN/PRC-24 RADIO SET	1
V30292	TA-1100 TELEPHONE SET	975

4.2 EFFECTIVENESS MEASUREMENT (MOETOELIST)

This section describes programming efforts to implement the Equipment Related MOE Effectiveness Measurement Procedure called MOETOELIST. The procedure is essentially a set of straight-forward arithmetic calculations aimed at deriving eleven of the INTACS Measures of Effectiveness (MOE): Weight, Volume, Total Power, Preventive and Corrective Maintenance Total and Without Test Equipment, Personnel, Transport Vehicles, Secure Subscribers and Equipment Categories for a defined communications system. As such, it is dependent upon the output of the System Definition Program (TOELIST) previously discussed in Section 4.1. In fact TOELIST is repeated in the beginning of MOETOELIST.

An Equipment Characteristics Data Base is required as input so that the eleven MOE can be derived for whatever equipment is used to define a system. Table B-7 is a sample format of this data base with indication of the source of the data. Samples of Weight, Cube, Wattage and Maintenance data available on computer files are shown on Tables B-7 A-C. A comparison between those items output from the System Definition Program and those items contained in the Equipment Characteristics Data Base is made at the outset so that those characteristics not in the data base are indicated early in the procedure.

A sample of the output of the Equipment Related MOE Effectiveness Measurement Program, MOETOELIST, is shown in Table B-8. While the sample only shows measurements for total force as the bottom line, the preceding portions of MOETOELIST show the same eleven measurements for each SRC and roll-up unit.

5.0 CONCLUSION

The full potential of this process will be realized only when system problems that have been created by conversion to UNIVAC are corrected.

The Impact Evaluation Process is a valid procedure which can be used to assess the impact of change to architecture. The results of evaluation may be used as a basis for selection of alternate courses of action or justification for the selected course of action.

[illegible]

Application Area and Period of Review:

TEP 19	INTACS	DEFINITION
QQPRI		

AIMS

—MRPC 2—
MACRIT FILE

TEP 54 TEP 54
L-File

SOURCE:

TABLE B-7 Sample of Equipment Characteristics Data Base and Sources

07/09/81

LIN MASTER FILE LIST (U-FILE)

PAGE 111

LIN	H-O-M-E-W-C-E-A-T-U-R-E	K T C C	C C I H	C C	COST	I T C	A R I C	S A T	P B E	WEIGHT	CUBE	S A
053001	RADIO SET: AN/VRC-46	1 A C 2			6025.00		B16	76 P U		90		1.4 3
054174	RADIO SET: AN/VRC-47	1 A C 2			6025.00		B16	76 P U		116		2.3 3
054829	RADIO SET: AN/VRC-48	1 A C 2			6025.00		B16	76 P U		138		5.9 3
055114	RADIO SET: AN/VRC-49	1 A C 2			6025.00		B16	76 P U		116		2.1 3
056424	RADIO SET: AN/VRC-54	2 A C 2			14767.36		B16	76 P U		198		3.8 3
056783	RADIO SET: AN/VRC-64	1 A C 2			2121.00		B16	76 P U		73		4.5 3
056835	RADIO SET: AN/VRC-64	2 F C 2			6025.00		B16	76 P U		344		7.3 3
057194	RADIO SET: AN/VRC-2	2 F C 2			6025.00		B16	76 P U		226		6.3 3
057516	RADIO SET: AN/VRC-3	2 F C 2			6025.00		B16	76 P U		231		6.2
057843	DEL-UNDER \$3000	0 N E			2176.00		B16			0		.0
077755	RADIO SET CONTROL: C-2328/GRA-39	2 A C 2			399.29		B16	26 X U		11		.2
078282	RADIO SET CONTROL GROUP: AN/GRA-39	1 A C 2			1202.00		B16	76 P U		30		.9
078419	RADIO SET CONTROL GROUP: DA-1754/GRC	3 A 0 2			36.99		B16	26 2 U		2		.0
081457	DEL-UNDER \$3000	0 N E			1761.60		B16			0		.0
085744	RADIO SET: AN/GRC-171 LESS POWER	2 A C 2			8831.29		B16	76 A U		112		9.7
085880	DEL-UNDER \$3000	0 N E			1402.20		B16			0		.0
086034	DEL-UNDER \$3000	0 N E			2523.57		B16			0		.0
086141	DEL-UNDER \$3000	0 N E			2284.80		B16			0		.0
086356	DEL-UNDER \$3000	0 N E			1648.44		B16			0		.0
087648	DEL-UNDER \$3000	0 N E			1610.24		B16			0		.0
089563	RADIO TELEPRINTER SET: AN/TER-2	1 A C 2			57901.20		B46	76 P U		0		.0
090063	RADIO TELETYPEWRITER SET: AN/GRC-46	1 F C 2			21787.00		B16	76 P U		1700		211.3
090100	RADIO TELETYPEWRITER SET: AN/GRC-122	1 A C 2			21787.00		B16	76 P U		2370		264.3
090120	RADIO TELETYPEWRITER SET: AN/GRC-142	1 A C 2			21787.00		B16	76 P U		2100		314.9
090201	RADIO TERMINAL SET: AN/IRC-90 LESS POWER	2 A C 2			345488.12		B16	76 P U		5250		546.8
090337	RADIO TELETYPEWRITER SET: AN/VRC-29	2 F C 2			4000.00		B16	76 P U		315		10.2 3
091301	RADIO TELETYPEWRITER SET: AN/VSC-2	1 A C 2			16216.00		B16	76 P U		0		.0
091302	RADIO TELETYPEWRITER SET: AN/VSC-3	1 A C 2			4000.00		B16	76 P U		559		29.4 3
091309	RADIO TERMINAL SET: AN/FRC-145(VI)	2 A C 2			333060.00		B16	76 P		0		.0
091330	DEL-NO REQUIREMENTS	0 N E			1405.38		B16			0		.0
091351	RADIO TERMINAL SET: AN/FRC-146(VI)	2 A C 2			147315.00		B16	76 P		0		.0
091352	RADIO TERMINAL SET: AN/FRC-146(VI)2	2 A C 2			147315.00		B16	76 P		0		.0
091353	RADIO TERMINAL SET: AN/FRC-146(VI)3	2 A C 2			179340.00		B16	76 P		0		.0
091354	RADIO TERMINAL SET: AN/FRC-146(VI)4	2 A C 2			179340.00		B16	76 P		0		.0
091355	RADIO TERMINAL SET: AN/FRC-146(VI)5	2 A C 2			236984.94		B16	76 P		0		.0
091356	RADIO TERMINAL SET: AN/FRC-146(VI)6	2 A C 2			236984.94		B16	76 P		0		.0
091357	RADIO TERMINAL SET: AN/FRC-146(VI)7	2 A C 2			333960.00		B16	76 P		0		.0
091358	RADIO TERMINAL SET: AN/FRC-146(VI)8	2 A C 2			14315.00		B16	76 P		0		.0
091359	RADIO TERMINAL SET: AN/GRC-67	2 A C 2			32025.00		B16	76 P U		4020		552.1
091502	RADIO TERMINAL SET: AN/GRC-163 LESS POWER	2 S C 2			19244.54		B16	76 P U		0		.0
091512	RADIO TERMINAL SET: AN/GRC-170	2 B C 2			239360.00		B16	76 P U		4459		612.7
091844	RADIO TERMINAL SET: AN/MRC-69 LESS POWER	2 B C 2			77103.87		B16	76 P U		7250		551.4
092118	RADIO TERMINAL SET: AN/MRC-73 LESS POWER	2 B C 2			44045.38		B16	76 P U		3050		545.8
092174	RADIO TERMINAL SET: AN/MRC-102 LESS POWER	2 B C 2			98756.12		B16	76 P U		4700		552.5
092186	OR-DELETE REPLACED BY 092894	0 9 E			.00		B16			0		.0
092197	RADIO TERMINAL SET: AN/MPC-127 LESS POWER	1 U C 2			75000.00		B16	76 P 6		0		.0
092255	RADIO TERMINAL SET: AN/TRC-35 LESS POWER	2 B C 2			24454.29		B16	76 P U		2644		110.3 3
092530	RADIO TERMINAL SET: AN/TRC-80 LESS POWER	1 A C 2			179504.75		B16	76 P U		4140		352.6
092644	RADIO TERMINAL SET: AN/TRC-108 LESS POWER	2 B C 2			35319.00		B16	76 P U		1740		229.1
092848	RADIO TERMINAL SET: AN/TRC-112 LESS POWER	1 A C 2			15870.00		B16	76 P U		4700		586.5 3
092854	RADIO TERMINAL SET: AN/TRC-117 LESS POWER	1 A C 2			169747.00		B16	76 P U		4500		621.1

REPORT NUMBER DR

CS/22/75

WATTAGE REQUIREMENTS

LINE	ITEM	KW	REMARKS
W01A55	ELECTRONIC SHOP SM AN/ASM-1A9 (J37205)	M045	APP H SB700-20
W01B27	ELECTR SHOP SHLTR AN/ASM-1A6 (J42100)	M010	APP H SB700-20
J35A29	GEN ST DSL TM 60K PU-650 60HZ	C	
J35B11	GEN ST DSL FNG 5 KW 60HZ	C	
J35B25	GEN ST DSL 10KW 60HZ	C	
J361E3	GEN ST DSL FNC TM 30K 60HZ PL-406	C	
J421C0	GEN ST GAS FNG TM 10K 60HZ PL-419	C	
J4301H	GENERATOR 1.5 KW AC 60 HZ	C	
J45A99	GENERATOR SFT GAS 3 KW AC 60 HZ	C	
J4919H	GENERATOR SFT 10 KW AC 60 HZ	C	
J49A25	GEN ST GAS FNG TRLE MT PU-332 10KW 60HZ	C	
J49B4A	GEN ST GAS FNG TM 10K 60HZ PU-564	C	
P40750	POWER SUPPLY PP 6224	M000.9	EST
C530C1	RADIO SFT VRC 46	J	EST
C54174	RADIO SFT VRC-47	J	CDC NWSLTR 7-71
57A837	SAW CIRCULAR PTAL 4 1/4 IN CUT	M001.39	EST
574450	SEMITRLE VAN EXPANS	M000.36	CDC NWSLTR 3-72
57A832	SFM1-TRAILER VAN REP PARTS	M003.	EST
57502H	SEMITRLE VAN SFT	M000.36	EST
575115	SEMITRLE VAN SUPPLY	M000.36	EST
T10275	SHOP FO ELEC REP (J49398)	M010	APP H SB700-20
T10412	SHOP FO ELEC REP (J47668)	M005	APP H SB700-20
T15644	SHOP FO MACH SHOP (J47668)	M005	APP H SB700-20
T24660	SHOP FO AUTO MAINT (J47068)	M010	APP H SB700-20
T25A19	SHOP FO AUTO MAINT (J49398)	M010	APP H SB700-20
T30414	SHOP FO FUEL E FLEC SYS (J49398)	M000.2	EST
W01305	KY-38	M001.5	APP H SB700-20
W2A67	SHOP FO AUTO MAINT (J4916)	M001.5	APP H SB700-20
W31499	TOOL KIT SMALL ARMS FP (J43918)	M001.5	APP H SB700-20
W45747	TOOL SET VEH FULL TRACK ORG MAINT (J43918)	M001.5	APP H SB700-20
W42237	TRUCK VAN ENAPANSIOLE	M000.36	EST
W42340	TRUCK VAN SHOP	M000.36	EST
Z13157	CARD PUNCH MACHINE	M000.34	IBM

NOTE - WATTAGE REQUIREMENT FOR W38500. POWER SUPPLY PP-2953.

TABLE B-7B MRPC 2 Example Wattage Report

AD-A127 621

INTEGRATED TACTICAL COMMUNICATIONS SYSTEM (INTACS)
AUTOMATED SYSTEM MANAGEMENT INFORMATION PROCESSES(U)
MARTIN MARIETTA DENVER AEROSPACE CO 30 SEP 81
DAAK21-79-C-0161

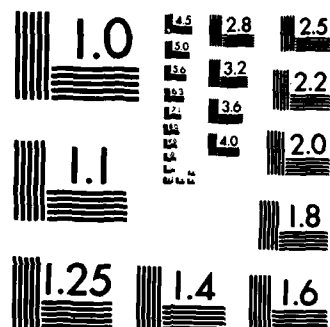
2/2

UNCLASSIFIED

F/G 17/2

NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

DATE	NSN	NOMENCLATURE	MAST			LINE/NO			FSN			MOS			SEQUENCE			MOS TITLE	MHS ORG OR AVUM	MHS DS OR 0	MHS CS OR AVIM	MHS DEPU
			G	M	D	S	T	H	L	SA	ESDODH	OPR/ CREM	PC	MOS	L	K.	S					
71335	5020000894276	RADIO SET AN/VRC-34	G			Q51339S	A	H	1					31V				TAC COMM SYS OP/MECH	31.60			
72041	50200006065760	RADIO SET AN/VRC-35	G			Q51661S	B	H	1					31E				FLD RADIO RPMN	12.70	12.50		
72041	50200006065760	RADIO SET AN/VRC-35	G			Q51661S	B	H	1					31V				TAC COMM SYS OP/MECH	37.40			
73011	50200006065760	RADIO SET AN/VRC-35	G			Q51798S	B	H	1					31E				FLD RADIO RPMN	13.00	13.00		
73011	50200006065760	RADIO SET AN/VRC-35	G			Q51730S	B	H	1					31V				TAC COMM SYS OP/MECH	37.00			
78349	5020002237415	RADIO SET AN/VRC-43	G			Q52072S	A	H	1					31E				FLD RADIO REPAIRER	6.06	7.39		
78349	5020002237415	RADIO SET AN/VRC-43	G			Q52072S	A	H	1					31V				TAC COMM SYS OP/MECH	31.20			
73011	5020000920069	RADIO SET AN/VRC-43	G			Q52183S	A	H	1					31E				FLD RADIO RPMN	15.00	17.00		
73011	5020000920069	RADIO SET AN/VRC-43	G			Q52183S	A	H	1					31V				TAC COMM SYS OP/MECH	36.00			
78349	5020002237417	RADIO SET AN/VRC-44	G			Q52394S	A	H	1					31E				FLD RADIO REPAIRER	12.15	12.77		
78349	5020002237418	RADIO SET AN/VRC-45	G			Q52716S	A	H	1					31E				FLD RADIO REPAIRER	12.13	14.00		
78349	5020002237433	RADIO SET AN/VRC-46	G			Q53001S	A	H	1					31E				FLD RADIO REPAIRER	6.06	7.39		
78349	5020002237433	RADIO SET AN/VRC-46	G			Q53001S	A	H	1					31V				TAC COMM SYS OP/MECH	31.20			
78349	5020002237434	RADIO SET AN/VRC-47	G			Q54174S	A	H	1					31E				FLD RADIO REPAIRER	9.10	12.55		
78349	5020002237434	RADIO SET AN/VRC-47	G			Q54174S	A	H	1					31V				TAC COMM SYS OP/MECH	31.60			
78349	5020002237435	RADIO SET AN/VRC-48	G			Q54829S	A	H	1					31E				FLD RADIO REPAIRER	12.15	12.77		
78349	5020002237435	RADIO SET AN/VRC-48	G			Q54829S	A	H	1					31V				TAC COMM SYS OP/MECH	32.40			
73011	5020000920066	RADIO SET AN/VRC-48	G			Q54977S	A	H	1					31E				FLD RADIO RPMN	6.15	9.77		
73011	5020000920066	RADIO SET AN/VRC-48	G			Q54977S	A	H	1					31V				TAC COMM SYS OP/MECH	32.40			
78349	5020002237437	RADIO SET AN/VRC-49	G			Q55114S	A	H	1					31E				FLD RADIO REPAIRER	12.13	14.00		
78349	5020002237437	RADIO SET AN/VRC-49	G			Q55114S	A	H	1					31V				TAC COMM SYS OP/MECH	32.40			
71335	5020000067506	RADIO SET AN/VRC-53	G			Q55510S	A	H	1					31E				FLD RADIO RPMN	3.92	7.54		
71335	5020000067506	RADIO SET AN/VRC-53	G			Q55510S	A	H	1					31V				TAC COMM SYS OP/MECH	31.50			
72041	50200009730119	RADIO SET AN/VRC-54	G			Q56424S	A	H	1					31E				FLD RADIO RPMN	5.90	12.10		
72041	50200009730119	RADIO SET AN/VRC-54	G			Q56424S	A	H	1					31V				TAC COMM SYS OP/MECH	31.50			

TABLE B-7C MRC-2 Example Maintenance Data

LI. NO.	LI. DESCRIPTION	N/FORCE	WEIGHT	VOLUME	POWER	PM WOTE	PM TOT	CH WOTE	CM TOT	VEH	PRSNL	SECSU
AAC001	TAC-174 KDU RPTM	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC012	ACS CP CUMM TRACK	2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC013	W/M BPE CP CUMM TRACK	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC016	TSC-(M)	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC018	DIV 550 CUMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC021	HSC CMBL SUP CTRLY	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC024	MS77 TAC CP	16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC026	BN CP CUMM TRACK	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC031	ELIC CUMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC032	DISC STAFF CLMN ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC033	DISCUM CUMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC034	FASC/SPT BN CUMM ASBL	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC035	DIV/ONE CUMM ASBL	3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC036	DIV/ALIC CUMM ASBL	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC037	BN CUMM ASBL	22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC041	SR-3665 UL37301	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC042	SR-3665 UL37601	6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC043	SR-22	226	6780.0	226.0	113.0	1175.2	1288.2	7031.2	7932.6	0	0	0
AAC378	ISC-01	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
AAC380	TSC-71	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
ESC421	AN/VAC-26 RADIO SET	1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
V30252	TR-177PT TELEPHONE SET	775	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
TOTALS		9521	172255.0	2328.6	212489.5	3485.2	25581.0	8899.2	30645.5	0	52	0

EQUIPMENT CATEGORIES FOR THIS CANDIDATE IS 67
 PREVENTIVE MAINTENANCE (PM) EXPRESSED IN MANYEARS FOR THIS CANDIDATE IS 5.8
 CORRECTIVE MAINTENANCE (CM) EXPRESSED IN MANYEARS FOR THIS CANDIDATE IS 7.0
 WEIGHT IN LBS FOR THIS CANDIDATE IS 51.1
 PERCENT PM WITHOUT TEST EQUIPMENT FOR THIS CANDIDATE IS 13.6
 PERCENT CM WITHOUT TEST EQUIPMENT FOR THIS CANDIDATE IS 29.0
 PULS EXPRESSED IN MICHOWATTS (M) FOR THIS CANDIDATE IS 212.5
 TOTAL VOLUME (CUFT) IS 2328.6
 TOTAL KUPPER VEHICLES IS 6
 TOTAL KUPPER G L S PERSONNEL IS 52
 TOTAL PUMPER SECURE SUBSCRIBERS IS 0

SIGNAL PERSONNEL REQUIREMENTS

This appendix describes a personnel program which was developed under the INTACS Study.

Army furnished Audit Trail (ALFA) - INTACS Personnel ADP Run 1975 was provided to simplify tracking the quantity of personnel in support of INTACS candidates. This program must be updated and slightly modified for summing by officer (OFF), Warrant Officer (WO), and Enlisted (ENL) in order for it to furnish the data required to support the update of INTACS Architecture.

Personnel ADP justification and outputs for the following requirements are described below:

- o Signal MOS personnel in non-Signal units.
- o All personnel in Signal units.

1.0 JUSTIFICATION FOR COMPUTER SUPPORT

In order to determine the number of Signal MOS personnel in the INTACS force model non-Signal units, programming for access to and formatting of data from the TOE file at Fort Leavenworth is required.

The magnitude of these audit trails is reflected by the following:

- o There are approximately 400 discrete TOEs in the force model:
42 Signal and 358 non-Signal.

2.0 ADP SUPPORT REQUIRED2.1 Force Model Listing (INTACS Study)

This is the prerequisite to subsequent listings:
Unit TOE's, quantity, by echelon.

2.2 Personnel

- o Total Signal MOS personnel, (Enclosure 3), in all TOE's, subtotaled in 8 groups: Supvr/con (C&C), Radio (O5), Wire, Switching, Comcen (TTY), COMSEC (KY), Multichannel, and Maintenance. Also, subtotal

by OFF, WO, and ENL. (See Enclosure 1 - Format)

- Non-Signal MOS personnel, (Other-Enclosure 4), in Signal TOE's subtotalled in 6 groups: P&A, Supply, Food Service, Aircraft O&M, Wheeled veh O&M (MTR), A/V. Also, subtotal by OFF, WO, and ENL. (See Enclosure 1)
- Roll-up MOS for each echelon and for Force. Also, subtotal by OFF, WO, and ENL. (See Enclosure 2)

3.0 OBJECTIVE SYSTEM

In addition to the foregoing, a TOE work file for the INTACS Objective System must be established and placed in the TOE data base file at Fort Leavenworth.

The INTACS study was approved by HQs Dept. of the Army on 17 February 1976 however to date no known effort has been made to formulate working draft TOE's to support the Objective System.

Basic information to support formulation of INTACS Objective System working draft TOE's is available in Task V and VI of the DA approved INTACS study and in the INTACS System Architecture (Objective System Refinement) dated May 1979. Chapter 2, TRADOC Pamphlet 71-4 provides procedures and guidance which are to be followed when placing working draft TOE into the TRADOC automated data files.

Placement of the INTACS Objective System TOE working file into the TRADOC data base will facilitate responsive and rapid update of the Objective System as approved changes occur. .

- MOS's of concern include some 65 signal and 58 other specialties- or a total of 123 MOS's. The 65 signal MOS's are divided into 8 functional categories; ie.: Supervisory/control, radio, wire, switching, Comcen, COMSEC, multichannel, and maintenance.

The audit trails for INTACS started with data extracted from the Army TOE data bank to establish the baseline ALFA, followed by manual adjustment and rationale through each of the succeeding candidate designs. In order to reduce the manual effort to a manageable level within the time frame allowed, the following support/programming tasks were accomplished:

- Rearrange the force model card deck in terms of TOE's by echelon, by quantity.
- Enable extraction of MOS data by 14 functional groups in 1 run for signal MOS's and for non-signal.
- Enable the computer to scan TOE recapitulation sections and display total MOS groups per TOE.
- Enable the computer to search TOE paragraphs containing signal MOS's in non-signal units.

Enclosures:

1. Signal Personnel MOS Format
2. Personnel MOS Roll-up
3. MOS Grouping # 1-8, Signal
4. MOS Grouping # 1-6 Non-Signal

Enclosure 1 SIGNAL PERSONNEL

NO SIG PERS

SUPPLY & SVC CO. S&T BN (ARMED DIV)

CSC	05	WIRE	SWCH	TTY	KY	MCML	MAINT	COMMO	OTH	PLA	SUP	FOOD	AIR	MTR	A/V	TOTAL
10007	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
10008	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
10009	3	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
10010	4	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0
10011	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10012	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10013	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10014	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10015	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10016	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10017	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10018	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10019	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10020	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10021	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10022	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10023	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10024	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10025	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10026	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10027	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10028	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10029	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10030	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10031	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10032	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10033	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10034	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10035	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10036	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10037	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10038	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10039	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10040	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10041	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10042	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10043	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10044	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10045	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10046	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10047	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10048	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10049	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10050	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10051	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10052	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10053	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10054	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10055	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10056	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10057	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10058	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10059	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10060	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10061	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10062	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10063	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10064	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10065	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10066	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10067	61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10068	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10069	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10070	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10071	65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10072	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10073	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10074	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10075	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10076	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10077	71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10078	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10079	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10080	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10081	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10082	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10083	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10084	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10085	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10086	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10087	81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10088	82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10089	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10090	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10091	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10092	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10093	87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10094	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10095	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10096	90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10097	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10098	92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10099	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10100	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10101	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10102	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10103	97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10104	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10105	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10106	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DIV SIGNAL BN (ARMED DIV)

CSC	05	WIRE	SWCH	TTY	KY	MCML	MAINT	COMMO	OTH	PLA	SUP	FOOD	AIR	MTR	A/V	TOTAL
11036	1	0	0	0	0	0	0	5	3	1	1	0	0	1	0	0
11037	2	0	0	0	0	0	0	3	3	1	2	0	0	0	0	0
11038	3	0	0	2	0	0	0	2	9	4	5	0	0	0	0	0
11039	4	0	0	1	0	0	0	4	2	2	0	0	0	0	0	0
11040	5	0	0	2	0	0	0	6	1	1	0	0	0	0	0	0
11041	6	0	0	0	0	0	0	0	19	0	1	0	0	17	0	0
11042	7	0	0	0	0	0	15	15	1	0	1	0	0	0	0	0
11043	8	0	0	0	9	0	0	12	0	0	0	0	0	0	0	0
11044	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11045	10	0	0	0	9	0	0	0	10	0	0	0	0	0	10	0
11046	11	1	0	0	9	0	15	47	44	9	10	0	0	14	10	95
11047	12	2	0	16	14	0	30	94	46	18	20	0	0	36	20	190
11048	13	1	0	6	9	0	16	49	51	9	11	0	0	19	11	0

Enclosure 2 ROLL - UPS

TRANS ACFT MAINT CO (APMD DIV) NO SIG PERS

CIC	OS	WIME	SVCH	TTY	KY	MCML	MAINT	COMMO	OTM	PLA	SUP	FOOD	AIR	MTR	A/V	TOTAL
487	350	750	0	26	0	0	248	1861	18	0	0	0	0	0	0	1879
114	120	210	56	158	18	264	42	942	236	24	44	42	0	104	20	1218
15	15	31	2	6	1	9	9	92	8	1	1	1	0	3	1	054E

OFF
WO
BVL

0205	058	36C	72C	72B	341A	31W	4825	2110	4010	94A	71P	631A	41E
0405	05C	36E	72G	72F	31S	36D	281A	2260	761A	94B	76M	0600	84R
0505	05E	36K	72H	72E	31T	31D	301A	2350	56A	94Z	76T	71T	84C
1401	05H			721A	31U		295A	5310	76A	941A	19P0	52A	41F
1750							26L	6302	76D		19R7	52A	84C
1450							26Y7	11A7	6G	1	0055	28	500
7581							340	00E	76K		101G	63A	8510
1010							36H	00U	76S		101C	63B	
0220							34B	70A	76U		56C	63C	
0221							31B	71H	76W		67R		
0425							31E	71D	76Y		67G		
31G							31J	71M	76Z		67N		
31Z							31L	71L			67R		
31N							31M	71M			67W		
44P							35R	71Q			67Z		
44P							36G	73C			67Z		
2162								73C			35K		
012								73C			35L		
								75H			35M		
								75Z			35M		
								75C			35P		

OFF TOTALS

CIC	OS	WIME	SVCH	TTY	KY	MCML	MAINT	COMMO	OTM	PLA	SUP	FOOD	AIR	MTR	A/V	TOTAL
1937	3292	5580	6	1444	3	812	2304	1637A	143	1	4	0	0	17	0	16521
2313	1463	4394	1262	3669	478	5026	1787	20627	6659	784	1038	1041	111	220A	710	27286
4250	4775	4974	1268	5313	481	5838	5091	37005	6802	785	1042	1041	111	2223	710	43807
10	11	23	3	12	1	13	12	64	16	2	2	2	0	5	2	

OFF
WO
BVL

Enclosure 4, MOS Grouping # 1-6, Non-Signal

P&A	S U P	FOOD	AIR	MTR	A/V
40A 42A 56A	70A 71A		15A 15B 15C 15M 15S	77D	

711A	761A 762A	041A	100B 100C 100D 100E 100Q 100R 100A	630A	

00U 71L 71M 75B 75C 75E 75Z 73C 71D 79D 00E	51R 45B 76Z 76C 76Y	94B	71P 93H 93J 67G 67U 67V 67X 67Y 67T 67Z	52D 63W 63H 63S 63Y 63Z 64C 64Z	81E

O P F

W O

E N L

END

FILMED

6-83

DTIC