

AD 640 118

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Technical Report

AD 640 118

MECHANIZATION STUDY  
OF THE DEFENSE LOGISTICS  
STUDIES INFORMATION EXCHANGE,  
FORT LEE, VIRGINIA

Submitted to

Defense Supply Agency  
Defense Documentation Center  
Cameron Station, Virginia

by

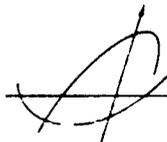
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## ABSTRACT

An RCA 501 computer is used by the Defense Logistics Studies Information Exchange to produce a thesaurus, demand bibliographies, code listings, and the Annual Department of Defense Bibliography of Logistics Studies and Related Documents. A card catalog file is maintained but will probably be discarded within 5 to 10 years. The Exchange has applied for status as a DoD Information Analysis Center; it has also been assigned an additional mission of maintaining a DoD Inventory of Technical Data and Related Efforts. Development of the thesaurus will continue, and the Annual Bibliographies and Quarterly Supplements will be printed by GPO from data on magnetic tape as soon as equipment becomes available at GPO. A survey conducted in 1963 indicated that patrons were satisfied with the services provided by the Exchange.

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## I. SUMMARY

An RCA 501 computer is being used by the Defense Logistics Studies Information Exchange to produce the Annual Department of Defense Bibliography of Logistics Studies and Related Documents, a thesaurus, demand bibliographies, and code listings. A backup card catalog file is also maintained but will probably be discarded within the next 5 to 10 years.

The U. S. Army Logistics Management Center, Fort Lee, Virginia, is responsible for the collection, storage, and dissemination of bibliographic information concerning logistical studies and related material. To assist the Center in accomplishing its mission, the Exchange was established in 1962. Appendix A illustrates the position of the Exchange within the Center's organization. The Exchange has a staff of nine: a manager, three reference analysts (one for each of the Armed Services), a reference librarian, two clerk-stenographers, a file clerk, and a keypunch operator. The staff receives requests for information from the Logistics Management Center, other Fort Lee activities, DoD logistics agencies, their contractors, and qualified nonmilitary requesters. The majority of users are managerial and research personnel.

The Exchange does not loan items; thus most of the requests are reference and bibliographic. Reference requests are generally by telephone. Requests for bibliographies are by memoranda or literature search request forms.

An accessions list is prepared manually by the Exchange for use by the analysts and for circulation throughout the Center. Periodicals are routed to the Exchange from the Logistics Management Center Library (also located at Fort Lee) for review by analysts and return to that Library. Entries in the DoD Bibliography, as well as demand bibliographies, refer to source of items since the Exchange is not a document source.

There are approximately 6,000 items in the current collection with an increase of approximately 2,000 per year. About 1,500 of the annual increase are included in the Annual DoD Bibliography, with approximately 375 appearing in each quarterly supplement.

Literature search requests from January thru mid-October 1965 numbered 162, averaging four per week, with 23 requests received the week of October 15. Indications were that the higher rate would continue for several weeks since many of the requests were for assistance in thesis research from students attending military schools where classes were just beginning.

## II. MECHANIZATION

### 1. CHRONOLOGY

The Information Exchange was commissioned July 3, 1962.

Plans for the computer program were developed and programming was accomplished between August and November of that year.

In January 1963, the Exchange began storing material in the file; effective operations began that spring and the first Annual Department of Defense Bibliography of Logistics Studies and Related Documents was issued.

Plans for 1966 call for a copy of the retrieval card (with micro-thesaurus on the back) to be added to the Annual Bibliography so that the individual user may query the computer.

### 2. THESAURUS DEVELOPMENT

One of the earlier problems the Exchange had to resolve was the development of a thesaurus of subject indexing terms, acceptable for bibliographic purposes to all Department of Defense agencies. It was

decided to use, as a basis, the definition of "logistics" contained in the Dictionary of United States Military Terms for Joint Usage. This definition follows:

"Logistics: The science of planning and carrying out the movement and maintenance of forces. In its most comprehensive sense, those aspects of military operations which deal with: a. design and development, acquisition, storage, movement, distribution, maintenance, evacuation, and disposition of materiel; b. movement, evacuation, and hospitalization of personnel; c. acquisition or construction, maintenance, operation, and disposition of facilities; and d. acquisition or furnishing of services."

The definition was charted as follows:

DEFINITION OF LOGISTICS

PLANNING AND  
IMPLEMENTATION

OF:

MATERIEL

Design and Development  
Acquisition  
Storage  
Movement  
Distribution  
Maintenance  
Evacuation  
Disposition

PERSONNEL

Movement  
Evacuation  
Hospitalization

FACILITIES

Acquisition and/or  
Construction  
Maintenance  
Operation  
Disposition

SERVICES

Acquisition and/or  
Furnishing

The terms MATERIEL, PERSONNEL, FACILITIES, and SERVICES were extracted to serve as the major areas for subject coding, or the first depth for subject indexing. At a later date, experience justified the addition of four more first-level terms: ORGANIZATION, MANAGEMENT, RESOURCES, and OPERATIONS.

A further breakdown of the definition serves as a second indexing depth. The second-depth terms reflect the functions involved in the management of materiel from research and development to disposal. The third-depth term identifies the type of materiel, i. e. , vehicles, communications equipment, ammunition, rations, clothing, weapons, etc. A breakout of an area (e. g. , MATERIEL) illustrates the identification of a second and third indexing depth.

First Depth  
Second Depth  
Third Depth

MATERIEL

Design and Development  
Vehicles

MATERIEL  
Acquisition  
Communications  
Equipment

MATERIEL  
Storage  
Ammunition

MATERIEL  
Movement  
Rations

MATERIEL  
Distribution  
Clothing

MATERIEL  
Maintenance  
Weapons

etc.

Following is an example of indexing to the fourth and fifth depth:

MATERIEL  
Maintenance  
Weapons  
Missiles  
NIKE ZEUS

PERSONNEL  
Movement  
Helicopters  
Training  
SWIFT STRIKE

FACILITIES  
Construction  
Buildings  
Family Housing  
Capehart

Specific information can be retrieved about such subjects as NIKE ZEUS missile maintenance; a phase of operation "SWIFT STRIKE"; or Capehart housing construction. This detailed and special bibliographic information is available to users upon demand.

Originally no limit was placed on the number of terms assigned and no restrictions placed on the terms used for indexing. Now, however, terms must be selected from the thesaurus, and new words are added only after careful consideration. Within the past six to eight months, a detailed study was made of the thesaurus and numerous second-level terms were eliminated. In the future, a study will be made of terms used only once or twice.

Plans call for completion of thesaurus development within another year. The improved thesaurus, with scope notes, will be published and distributed to users, most likely as part of the Annual Bibliography. Coordination with Project LEX, a project to prepare a DoD-wide Technical Thesaurus, is being effected.

### 3. DESCRIPTION OF PROCESSES

Reports, books, and periodical articles in the field of logistics are analyzed and processed for inclusion into the system. From this data base, the Annual DoD Bibliography is produced, demand bibliographies are prepared upon request, and several indexes for use by the Exchange staff are prepared. All inputs are derived from the procedures outlined below.

#### (1) Input Procedures

1. Logistics studies and related documents are submitted directly to the Exchange by DoD agencies in accordance with DoD Inst 5154.19.
2. Other items are selected by the analysts and ordered by the Exchange librarian.
3. Items received on distribution or loan from the Logistics Management Center Library and items specifically requested are checked in and reviewed by the analysts.
4. The analysts complete keypunching code sheets (Figure 1) containing the author code number, logistics document number, title and author(s), AD number, contractor code number, contractor name, time frame of a continuing project, date of completion, number of pages, type of document, status of project, security classification, date published, abstract, descriptors, and type of action requested. Actions include new entries, deletions, items to be suppressed in printing the Annual Bibliography but retained in the file to appear as a result in a search query, or entries for the History File. The abstract normally answers four questions: What was sought; how it was sought; what was learned; and what can be concluded from it. Terms (descriptors) are selected from the thesaurus; new terms

**DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE**

**Keypunch Coding Sheet**

**ACTION REQUESTED:**

Initial Entry

Suppress

History File

Change

Current Supplement

Type of Change  Suppress  
 Delete

1. AUTHOR (SOURCE) CODE NO. (5 Spaces)	2. LOGISTICS DOCUMENT NO. (6 Spaces)
3. DOCUMENT TITLE AND INDIVIDUAL AUTHOR NAMES (Line 1, 78 Spaces)	
4. (Line 2, 78 Spaces)	
5. (Line 3, 78 Spaces)	
6. REFERENCE (65 Spaces)	
7. AD NUMBER (7 Spaces)	8. CONTRACTOR CODE NO. (4 Spaces)
9. CONTRACTOR NAME (64 Spaces)	
10. (NOT USED)	
11. TIME FRAME (9 Spaces)	12. TYPE DOCUMENT (14 Spaces) <input type="radio"/> In-House Study <input type="radio"/> Thesis <input type="radio"/> Contract Study <input type="radio"/> Article <input type="radio"/> Non-Govt Study      OTHER _____
13. EXPECTED COMPLETION DATE _____ (5 NUMBER OF PAGES + _____ Spaces)	
14. STATUS (14 Spaces) <input type="radio"/> Completed <input type="radio"/> Planned <input type="radio"/> In-Process <input type="radio"/> Suspended	
15. SECURITY CLASS. <input type="radio"/> Top Secret <input type="radio"/> Secret <input type="radio"/> Confidential <input type="radio"/> Unclassified <input type="radio"/> Unknown	16. DATE PUBLISHED (5 Spaces)
17. ABSTRACT (Line 1, 56 Spaces) (UNCLASSIFIED)	
18. (Succeeding Lines, 77 Spaces Each)	
19.	
20.	
21.	
22.	
23.	
24.	

AMXMC-RD-1

1 July 1965

FIGURE 1

5. (Abstract Continued)

3.	
7.	
3.	
9.	
0.	
1.	
2.	

. SUBJECT 1 DESCRIPTOR 1 (22 Spaces)		
. SUBJECT 1 DESCRIPTOR 2 (24 Spaces)		
. SUBJECT 1 DESCRIPTOR 3 (24 Spaces)		
. SUBJECT 1 DESCRIPTOR 4 (24 Spaces)		
. SUBJECT 1 DESCRIPTOR 5 (24 Spaces)		
. SUBJECT 2 DESCRIPTOR 1 (22 Spaces)		
. SUBJECT 2 DESCRIPTOR 2 (24 Spaces)		
. SUBJECT 2 DESCRIPTOR 3 (24 Spaces)		
. SUBJECT 2 DESCRIPTOR 4 (24 Spaces)		
. SUBJECT 2 DESCRIPTOR 5 (24 Spaces)		
. SUBJECT 3 DESCRIPTOR 1 (22 Spaces)		
. SUBJECT 3 DESCRIPTOR 2 (24 Spaces)		
. SUBJECT 3 DESCRIPTOR 3 (24 Spaces)		
. SUBJECT 3 DESCRIPTOR 4 (24 Spaces)		
. SUBJECT 3 DESCRIPTOR 5 (24 Spaces)		

INTERNAL USE

DO NOT KEYPUNCH

SOURCE OF EXTRACTED INFORMATION	DATE	ANALYSIS BY (Initials)
---------------------------------	------	---------------------------

CLASSIFIED DOCUMENTS ONLY

Unclassified Description of Classified Document Approved

DATE SIGNATURE

MXMC-RD-1  
JULY 1965

FIGURE 1 (Continued)

may not be added without a careful review. New author and contractor entries may be added only after the appropriate forms have been completed and a code assigned by the librarian. (For new entry forms see Figure 2.).

5. Worksheets with the new items are sent to the Exchange librarian.

6. Worksheets are assigned an accession number by the librarian. Each title receives an accession number; volumes of the same title are assigned suffix letters: A, B, C, etc.

7. The Library's keypunch operator takes the worksheets to Computer Services and punches the information on paper tape.

8. The paper tape is verified by the keypunch operator, then given to Computer Services for processing onto magnetic tape. Additions and corrections are usually accumulated by the computer group for updating in batches of 50 - 75. (Between 400 and 500 additions are made each quarter, including items to be suppressed.)

9. Proof listings of code sheets, author and contractor revisions, distribution labels, and list corrections, generated by the computer, are returned to the Exchange for checking. Errors are noted, corrected, and returned to Computer Services for resubmission to the system.

(2) Outputs

1. Annual Department of Defense Bibliography of Logistics Studies and Related Documents

This Bibliography (See Appendix B-1) of more than 1,500 items in the logistics field is published annually with quarterly supplements. Distribution is made to more than 330 activities. The Bibliography includes new items, continuing projects, a cumulation of the three quarterlies, and significant items from the previous annual edition.

**DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE**

**Master File Revision Request**

**New Author Entry**

---

**AUTHOR CODE NUMBER**

---

**NAME OF AUTHOR (78 Spaces)**

---

**NAME AND ADDRESS OF AUTHOR (78 Spaces)**

---

**ADDRESS OF AUTHOR (78 Spaces)**

---

**DATE**

---

**REQUESTED BY (Initials)**

---

**DEFENSE LOGISTICS STUDIES INFORMATION EXCHANGE**

**Master File Revision Request**

**NEW CONTRACTOR ENTRY**

---

**NEW CONTRACTOR CODE NUMBER**

---

**NAME OF CONTRACTOR (64 Spaces)**

---

**ADDRESS OF CONTRACTOR (64 Spaces)**

---

**FIGURE 2**  
**New Entry Forms**

## 2. Demand Bibliographies

Requests for bibliographies are forwarded to the Exchange from schools and other DoD and government agencies and their contractors, either by memo, letter, or on the standard form developed by the Exchange for use by students in military schools. The question is reviewed by the analysts, and terms to be used in the search are added to a retrieval worksheet. Items may be retrieved by subject, classification, date, corporate source, or title. Printouts from a literature search are in the same format as the entries in the Annual DoD Bibliography. Recipients of the demand bibliographies may use them as guides to what is available in the subject areas of interest. Items must be obtained from a local library or source referred to in the bibliography since the Exchange does not loan or furnish copies of documents.

## 3. Inverted Index

The computer prepares a printout (Appendix B-2) of all descriptors used at each level and indicates all posting against each descriptor within that level. At present this listing is used as the thesaurus and also in reviewing terms and their usage, repetition of terms within levels, etc. Copies of this listing are not distributed outside the Exchange.

## 4. Relative Index

This alphabetical computer printout (Appendix B-3) relates each term to the document to which it has been posted. That is, each unique combination of five descriptors is printed and the logistics document numbers are printed beneath. This list is used primarily by the analysts in reviewing and indexing the documents and is not circulated outside the Exchange.

## 5. Author/Sponsor Code Listing

This printout (Appendix B-4) provides codes assigned to each of the military agencies, grouped and assigned according to their location in the DoD, Army, Navy, and Air Force organizational structure.

6. Contractor Code Listing

This printout provides the same information for contractors as the Author/Sponsor Code Listing does for military activities. Codes have been assigned (on both code lists) in such a way as to allow for expansion and continuation of the alphabetical arrangement without changing the numerical sequence. New codes are added to either list only after careful consideration by the librarian.

4. MAJOR PROBLEMS

Communications between the DoD logistics research and management activities and the Exchange staff was a problem encountered in the program development stage. Within the Exchange staff, personnel training and standardization of subject descriptors and source codes have been minor problems.

5. ACTIVITIES BEING PLANNED OR DEVELOPED FOR MECHANIZATION

The Exchange has applied for status as a DoD Information Analysis Center. Expansion would increase services to include state-of-the-art reports and, at the same time, would require additional personnel.

The Exchange has been assigned an additional mission of maintaining and updating a DoD Inventory of Technical Data and Related

Efforts. This will involve, on a DoD-wide basis, the collection, storage, and dissemination of information about technical data management improvement actions underway or planned.

Thesaurus development will be pursued. Standardization and compromise will be made, especially in the third, fourth, and fifth levels of descriptors, to eliminate duplication of terms at different levels. Possibly other levels may be introduced. Also, Thesaurus File checks of descriptors will be made a part of the proof update routines to help catch errors earlier.

The Government Printing Office will print the Annual Bibliographies and the Quarterly Supplements from data on magnetic tape using existing editing programs as soon as equipment becomes available at GPO.

### III. PROGRAM SYSTEM DATA

#### 1. FILES

##### (1) Master History File

This file is composed of variable-length records of individual documents. Within a record, fields (as shown on keypunch coding sheet, Figure 1) are delineated by item separators. The records are in sequence by source, and within source, by logistics document number.

##### (2) Quarterly Supplement Document File

This file uses the same format as the Master History File but contains reference to only those documents added during the current quarter. After publication, the Quarterly Supplement Document File is merged into the Master History File.

##### (3) Source File

The Source File is in four sections: part one contains the names, addresses, and codes for all valid contractor document sources; part two contains the names, addresses, and codes to

all valid author/sponsor document sources; part three contains the information necessary for printing the mailing labels used for distribution; part four is the distribution list.

(4) Thesaurus File

This file consists of one record per official term. The descriptor level number at which the term may be used is prefixed to the term to simplify sorting. Definitions for each term will be added in the future. There are currently about 2,000 terms.

2. PROGRAMS

All programs were written in machine language without the benefit of an assembler, except for the Thesaurus List which was written in COBOL.

(1) Thesaurus Check

To verify the contents of the Quarterly Supplement Document File, each descriptor in the file is checked against the Thesaurus File. Misspellings and other nonmatches are corrected by the Exchange.

(2) Bibliography Print

The Quarterly Supplement Document File is printed by this program in the format of the Quarterly Bibliography Supplements, showing author, source, title, logistics document number, classification, descriptors, and abstract. The body of the Supplement is printed first. Each entry is assigned a line item number, and each page is numbered. A work tape is produced containing the source name and page number of each item from that source. A second work tape is produced for analysis of the use of descriptors. This tape contains four records for each item (document), the first containing level one and two descriptors, the next three containing each of the lower-level descriptors.

(3) Source Index Print

An index is printed containing the name of each source and the first, or lowest, page number for that source. This index appears in the front of the Quarterly Supplement.

(4) Inverted File Print

The second work tape is sorted by descriptors and line item number. Each unique combination of descriptors is printed with the line item number of the items described. The print is divided,

the first section containing only first and second level terms and the second containing all terms used on any other level.

(5) Merge

After publication of the Quarterly Supplement Bibliography, it is merged with the Master History File. Typically, about 400 to 500 items are added per quarter, although not all of these items will appear in the Quarterly Supplement Bibliography.

(6) Descriptor Printout

After the preparation of each Quarterly Supplement, the inverted files are printed in two volumes. In the Relative Index, each unique combination of five descriptors is printed and the author/sponsor number and logistics document number of each item are posted under it. In the Inverted Index, five chapters (representing five levels of descriptors) show single terms and logistics document numbers of those documents using that term.

(7) Thesaurus List

All official terms are printed in alphabetic sequence and grouped by level. It is anticipated that definitions of terms will be added to this printout.

(8) Retrieval

A retrieval query paper tape, generated from the retrieval worksheet (Figure 3), contains from 1 to 24 questions from a single query. The paper tape is read, and the document file is searched for matching descriptors. A citation is printed for each match in the same format as the Bibliography.

(9) Single Field Search

This program searches the document file, comparing the contents of any or all of the 48 fields of a record. A new magnetic tape, in the same format, is generated containing all matches. This capability is used to reduce the file to a single major category of documents for more specific subsequent searches.

#### IV. EQUIPMENT, COSTS, AND EVALUATION

QUESTION #	CODE	DESCRIPTOR 1	DESCRIPTOR 2	DESCRIPTOR 3	DESCRIPTOR 4	DESCRIPTOR 5
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						

FIGURE 3  
Retrieval Worksheet

#### IV. EQUIPMENT, COSTS, AND EVALUATION

##### 1. EQUIPMENT

RCA 501 The computer is owned by the Army and is used for student instruction and for running simulation programs. The average operation is 1 or 1-1/2 shifts per day. The Exchange system uses about eight hours per week.

501 with 32K memory  
6 581 tape drives  
533 line printer  
paper tape reader  
card reader (600 cpm)

COBOL-61, 501 Assembly System, E2 Code--a Micro-Assembly System, and 501 Batch Sorter--a Sort Generator are also used by the Exchange.

##### 2. COSTS AND TIME

The original system was programmed in approximately four months using 80 percent of one man's time. Since then between one and two man-months per year have been expended for improvements; two people for nine months were involved in conversion from a prototype system using IBM equipment to the present system which utilizes a RCA 501 computer. Computer support was assured by assigning a manpower space to the computer section. Planning, system design,

and conversion costs were approximately one to two man-years. Current total annual operating cost is \$77,000. The three analysts index and abstract some 60 to 70 items per month, including new documents, status reports on current contracts, changes of address, assignment of AD numbers, etc. Twenty-four hours of each analyst's time per week is spent in retrievals and reference questions and review of demand bibliography printouts.

The Master History File, containing some 6,000 items, is searched in about five minutes. Each query formulation, coding, punching, and processing of a literature search question is normally completed within a 24-hour period.

The Quarterly Supplement printout of some 375 entries takes about 1 to 1-1/4 hours.

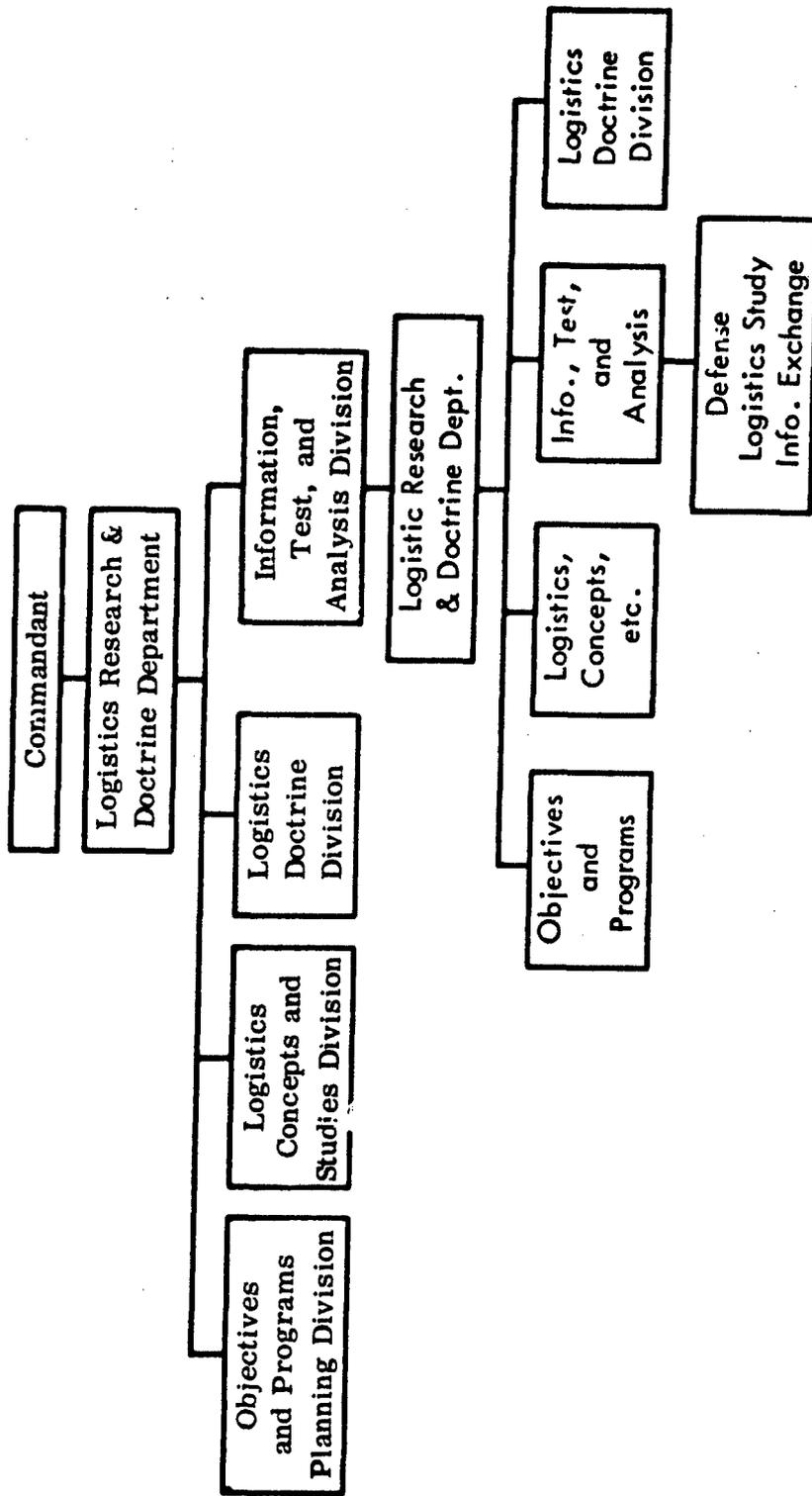
### 3. FACILITY'S EVALUATION OF SYSTEM

A survey of patrons was conducted in 1963, and results indicated that service was good. Ideas received from this first survey were incorporated into plans for the Exchange. Surveys will be continued every few years to obtain suggestions for improvement.

**APPENDIX A**  
**ORGANIZATION CHART**

U. S. ARMY LOGISTICS MANAGEMENT CENTER

ORGANIZATION CHART



**APPENDIX B**  
**SAMPLES OF OUTPUTS**

153

COMPUTER IMPLEMENTATION OF A TIME-PHASED INPUT-OUTPUT ECONOMIC MODEL:  
PEAM-1103A.

REFERENCE: RAG-SP-192

LD 5590D

CONTRACTOR: RESEARCH ANALYSIS CORPORATION

TIME FRAME: CURRENT

STATUS: COMPLETED

TYPE OF DOC: CONTRACT STUDY NO. OF PAGES: 53  
SECURITY CLASS: UNCLASSIFIED DATE PUBLISHED: 2/63

(UNCLASSIFIED) THIS STUDY DESCRIBES THE PAMUSA ECONOMIC ACTIVITY MODEL (PEAM) WHICH WAS DEVELOPED FOR THE RESOURCE-ALLOCATION ANALYSIS PART OF THE ARMY CHIEF OF STAFF STUDY, "POST ATTACK MOBILIZATION OF THE U. S. ARMY - 1963 (PAMUSA-63)." IT WAS USED AS AN AID IN EVALUATING THE ABILITY OF THE ECONOMY TO FURNISH, AT THE APPROPRIATE TIME, THE MEN AND MATERIEL REQUIRED TO SUPPORT AN ARMY MOBILIZATION AND DEPLOYMENT SCHEDULE BY QUARTERS, OVER A TWO-YEAR PERIOD. THIS REPORT IS PART OF THE WORK PROGRAM UNDER RAC PROJECT 83.2 (ARMY MOBILIZATION AND ECONOMIC READINESS MODEL).

SUBJECT DESCRIPTORS:

RESOURCES, CONTROL, MOBILIZATION

154

REPAIR PARTS MAINTENANCE REQUIREMENTS FOR FUTURE COMBAT OPERATIONS (U).  
REFERENCE: RAG-RP-105

LD 5592

CONTRACTOR: RESEARCH ANALYSIS CORPORATION

TIME FRAME: CURRENT

STATUS: IN-PROCESS

TYPE OF DOC: CONTRACT STUDY EXP COMPL DATE: 8/63  
SECURITY CLASS: UNKNOWN

(UNCLASSIFIED) THE OBJECTIVE OF THIS EFFORT IS TO ESTABLISH THE PERFORMANCE CRITERIA THAT THE MAINTENANCE REPAIR PARTS SYSTEM MUST MEET TO

FACILITIES

00053	00065	00277	00278	00358	00397	00397B	00397C	00397D	00397E	00397F	00397G
00397I	00669	00792	00858	00923A	00941	00969	03082	3337	3412	3431	003450
03523	03601	03660	03711	03712	03780	03811	03867	03924	03953	04385	05174H
05174G	05174S	05423	05425	05452	05463	05477	05500	05536	05605	05629	05659
05670	05729	05868	05874	06028	06062	06074	06094	06100	06144	06150	06158
06162	06243	06253	06253A	06259	06269	06269A	06269C	06273	06358	06398	06423
06438	06464	06476	06549	06560	06565	06574	06606A	06607	06613	06614	06623
06625	06631	06682	06683A	06683B	06684	06688	06690	06694A	06694B	06695	06700
06726	06732	06779	06830	06832	06834	06835	06836	06837	06837B	06837C	06837E
06837H	06837M	06839	06841	06848	06850	06850A	06850B	06850C	06887	06931	06934
07030	07032	07032	07034	07038	07061	07062	07063	07071	07084	07085	07102
07132	07156	07157	07175	07178	07190	07220	07221	07222	07240	07248	07249
07252	07274	07289	07301	07322	07330	07358	07377	07380	07394	07403	07418
07424	07425	07428	07428A	07428B	07446	07491	07495	07496	07498	07502	07503
07504	07511	07527	07539	07543	07551	07552	07581	07588	07594	07601	07641
07651	07672	07680	07683	07683A	07683B	07683C	07683D	07684	07693	07730	07776
07904	07805	07813	07843	07961	07869M	07869N	07879	07897	07898	07902	07911
07939	07939A	07939C	07939D	07939E	07972	07998	08058	08059	08076	08102	08127
08127A	08127B	08127C	08133	08142	08150	08153	08155	08156	08158	08162	08163
08166	08167	08168	08169	08171	08206	08301	08310	08317	08319		

MANAGEMENT

00036S	00038	00039	00154	00240	00271	00293	00305	00308	00374	00468
00477	00478	00483	00503	00548	00549	0593	0634	0638	0697	00724
00752	00753	0076	00776	00790	00797	00799	00820	00864	0881	00893K
00893L	00893M	00893N	00893O	00893P	00893S	00913	0914	0915	0984A	01005
0102	01056A	01081	02016	02044	02046	02099	03028	03029	03051	03066
03073	03081	03084	03105	03146	03156	03197	03198	03222	03244	03248
03284	03306	03317	03340	03341	03344	03356	03361	03416	03427	03440
03441	03461	03493	03500	03512	03521	03525	03535	03536	03542	03551
03558	03559	03566	03570	03600	03606	03627	03681	03685	03691	03718
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