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NOTICE
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DEFENCE REVIEW COMMITTEE

GROUP ON FORCE DATA MANAGEMENT AND ANALYSIS

Note by the Chairman

This System Manual represents the result of many years' effort by the Systems Analysis Section of the NATO International Staff and Members of the DRC's Group on Force Data Management and Analysis. It constitutes an up-to-date compendium of essential elements of the new NATO Force Planning Data Base (NFPDB) system. It supersedes all previous notes issued in the course of the evolving development process.

2. At this state of system development the basic components of the design must be regarded as firmly - and, at least until the completion of the implementation phase, irreversibly - defined. This applies, in particular, to the input records structures and the rules governing their application. It does, however, not strictly apply to the presented categorisation schemes for data items; the system is insensitive to modifications, extensions or improved definitions in this area.

3. This Manual is only a part of the complete NFPDB system documentation, but it is believed to present sufficient guidance for Nations to respond to the new system in the desired manner.

4. One of the significant features of the system is its capability of flexible response to variations in volume, aggregation and parametric breakdown of data inputs. In addition, it offers - for the first time - NATO Nations the opportunity of reporting both current and planning data for all branches of Service in automated form to a central computerised data base.

(Signed) A. Puhl

NATO,
1110 Brussels.

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**NATO
FORCE PLANNING
DATA BASE (NFPDB)**



SYSTEM MANUAL

**PART A: FILES
RECORDS
CODES**

(excluding equipment codes)

DECEMBER 1977

SYSTEMS ANALYSIS SECTION, DPP DIVISION

NATO/OTAN - BRUXELLES 1110

SYSTEMS ANALYSIS SECTION

DEFENCE PLANNING AND POLICY DIVISION

NATO FORCE PLANNING DATA BASE (NFPDB)

SYSTEM MANUAL

PART A: FILES
RECORDS
CODES

Foreword

This NFPDB System Manual has been prepared by Systems Analysis Section (SAS), Defence Planning and Policy Division, to assist NATO and national data-handling experts in implementing the new NFPDB.

2. No attempt has been made to produce a complete description of the System. Rather, an overview of the salient features has been provided, together with instructions which, it is hoped, will suffice fully to allow data providers to submit the necessary information to NATO Headquarters.

3. Certain precautions should be taken in use of this Manual. The reader should recognise that the association of values with the codes and parameters drawn from this document can take on a security classification. The entry of marginal notes or quantitative/qualitative performance data obtained from other classified references, or which in context may be classified, should be avoided.

4. In order to improve the NFPDB, recipients are encouraged to forward to this Section proposals for additions, changes or corrections to the content of this Manual which they may deem important in the light of technical, military and political developments.

(Signed) A. Puhl
Head, Systems Analysis Section
DPP Division
NATO Headquarters

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1. INTRODUCTION

1.1 Scope of the System Manual

This Manual forms part of the NATO Force Planning Data Base (NFPDB) System Support Documentation. It is intended primarily for those (data providers) whose responsibility it is to provide inputs to the NFPDB; and for those (information users) who have a legitimate requirement for information stored in the base.

Chapter 2 of this Manual provides data providers and information users with a brief description of the internal file system, indicating types, content and linkages of physical file records. For more complete information about data management operation, such as programme logic, etc., interested readers are referred to relevant NFPDB System Documentation Manuals.

Chapters 3, 4 and 5 contain exhaustive and essential information needed by data providers to enable them to perform their input function in the desired manner. Detailed descriptions of the card input formats are found in Chapter 3. Relevant guidance and instructions (together with some examples) for input preparation are set out in Chapter 4.

Chapter 5 contains lists of codes appertaining to data elements of NFPDB records. With the exception of equipment codes, which are to be found in the NFPDB System Manual, Part B, the required data items of record elements are identified, presented in logical and alphabetic sequence, and uniquely encoded.

1.2 General System Capability

As the central and principal source of force planning information of the Alliance, the NFPDB is designed to organise, store and manipulate large quantities of data in an efficient and cohesive manner and in such a form that information can be retrieved for a variety of current standard and future applications. This capability of the system is coupled with sufficient flexibility for expansion and limited compatibility with systems, techniques and concepts applied by data providers. As to the nature of

information reported into the base, the system permits, within defined limits, the data providers the possibility of reporting information to whatever level of detail is (a) compatible with their own system concepts and planning philosophies, and (b) dictated by user requirements. However, data providers' freedom of input action is severely limited due to requirements of automation and centralisation: the system accepts inputs on magnetic media and in a defined format only; further, certain input rules must be adhered to; and codes other than those listed in the NFPDB Coding Handbooks are not permissible.

An essential feature of the system is its capability of managing information of non-steady nature; i.e. information elements are associated with variables of time (see ρ codes) and plans (see γ codes). This method of "information superposition", if systematically applied by data providers, yields the advantage of reducing the level of data redundancy to a minimum. This facility is, admittedly, liable to increase software complexity. Without it, however, the large data volume - coupled with hardware limitations - would cause insurmountable problems.

Through the application of modern data base techniques and the use of a data base management software a high degree of data independence, both in respect of the overall logical structure and the physical organisation of data and file layout, was achieved. Thus, the data structures are, as far as possible, being kept independent of the application programmes, which is considered highly desirable in a multi-user environment.

Interoperability with other existing or planned NATO information systems operating with both Management Information Systems (MIS) and Command and Control Information Systems (CCIS) type data has been considered in the design of the NFPDB.

1.3 General NFPDB Content

In accordance with the ultimate and broad objectives of the NFPDB(1), the system was designed to satisfy existing requirements for information of all users who can appropriately be served, as well as known and

(1) Frame of Reference for the NATO Force Planning Data Base (as published in Document DRC/N(76)30

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anticipated future requirements. In order to cope, in a dynamic environment, with additional - as yet unknown - requirements the system has sufficient growth potential in regard to volume and type of information. The current selection of data items contained in the NFPDB was, however, made on the basis of current actual and known future user requirements.

Depending on the area of application, the NFPDB content is subdivided into two main information categories:

- UNIT-oriented information, such as characteristics appertaining to military service units, defence support organisations and installations, etc. (see Figure 1);
- EQUIPMENT-oriented information, such as characteristics of weapons and other military equipment and installations, and their operational use, etc. (see Figure 2).

As regards UNIT-oriented information, it is important to note that the time dimension has been introduced into the NFPDB to permit the storage of force planning information relating to the future. This is termed applicability of time (see β codes). Furthermore, as an aid to efficient data storage, the organisation of data within the NFPDB recognises explicitly that a given type of data can serve different purposes (e.g. personnel-type data can be used to convey information on actual or on war-authorized or on peace-authorized strengths. This is termed applicability of plans (see γ codes). Finally, both parameters (β and γ) are applied to certain groups of data elements, which are referred to as information types. All three variables - information type, applicability of time and applicability of plan - are described within the NFPDB by the so-called Alpha-Beta-Gamma triad (see Figure 3).

For both UNIT-oriented and EQUIPMENT-oriented information, the NFPDB system is capable of meeting new requirements by the application of either one, or a combination of all four of the following techniques:

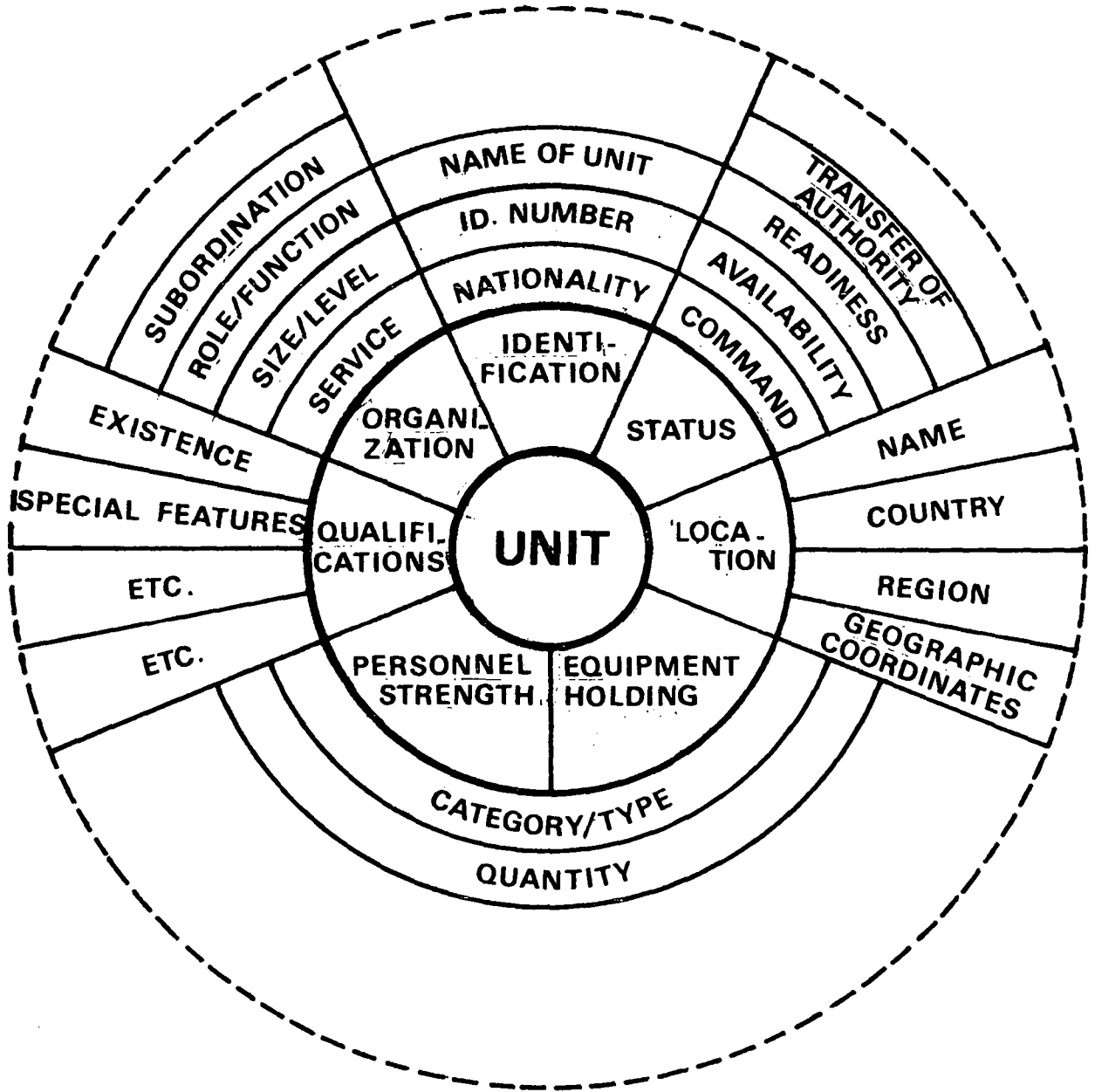
- (a) extension of the list of codes for an appropriate data element;
- (b) extension of the range of applicability of plan (additional γ code(s));

- (c) creation of new information type(s) (additional α code(s));
- (d) extension of an existing information type (new data element(s)).

Only the latter two alternatives would require system modifications. It is, however, expected that most anticipated additional user requirements will be satisfied by options (a) or (b).

INFORMATION CONTENT UNIT ORIENTED

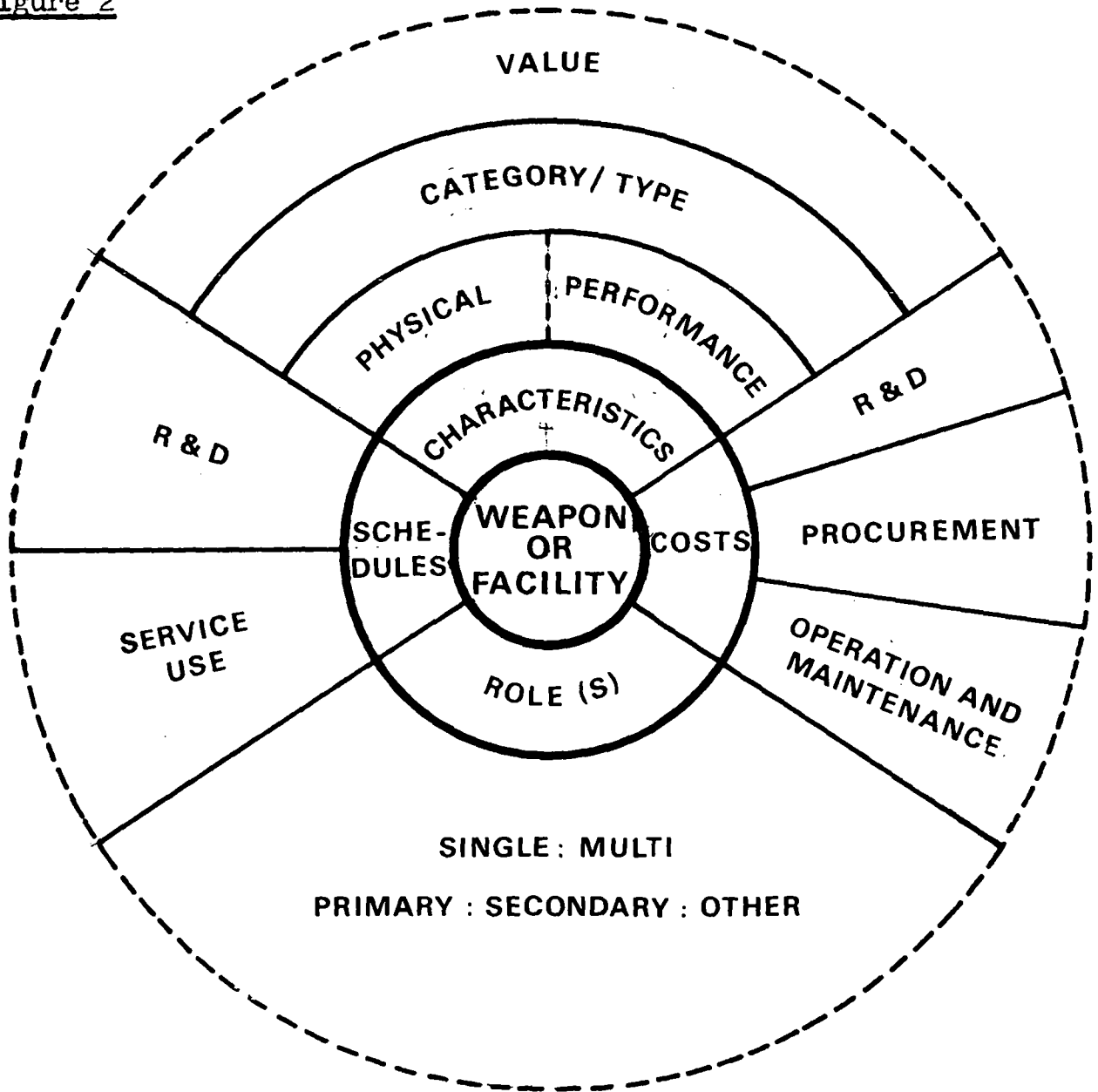
Figure 1



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INFORMATION CONTENT EQUIPMENT ORIENTED

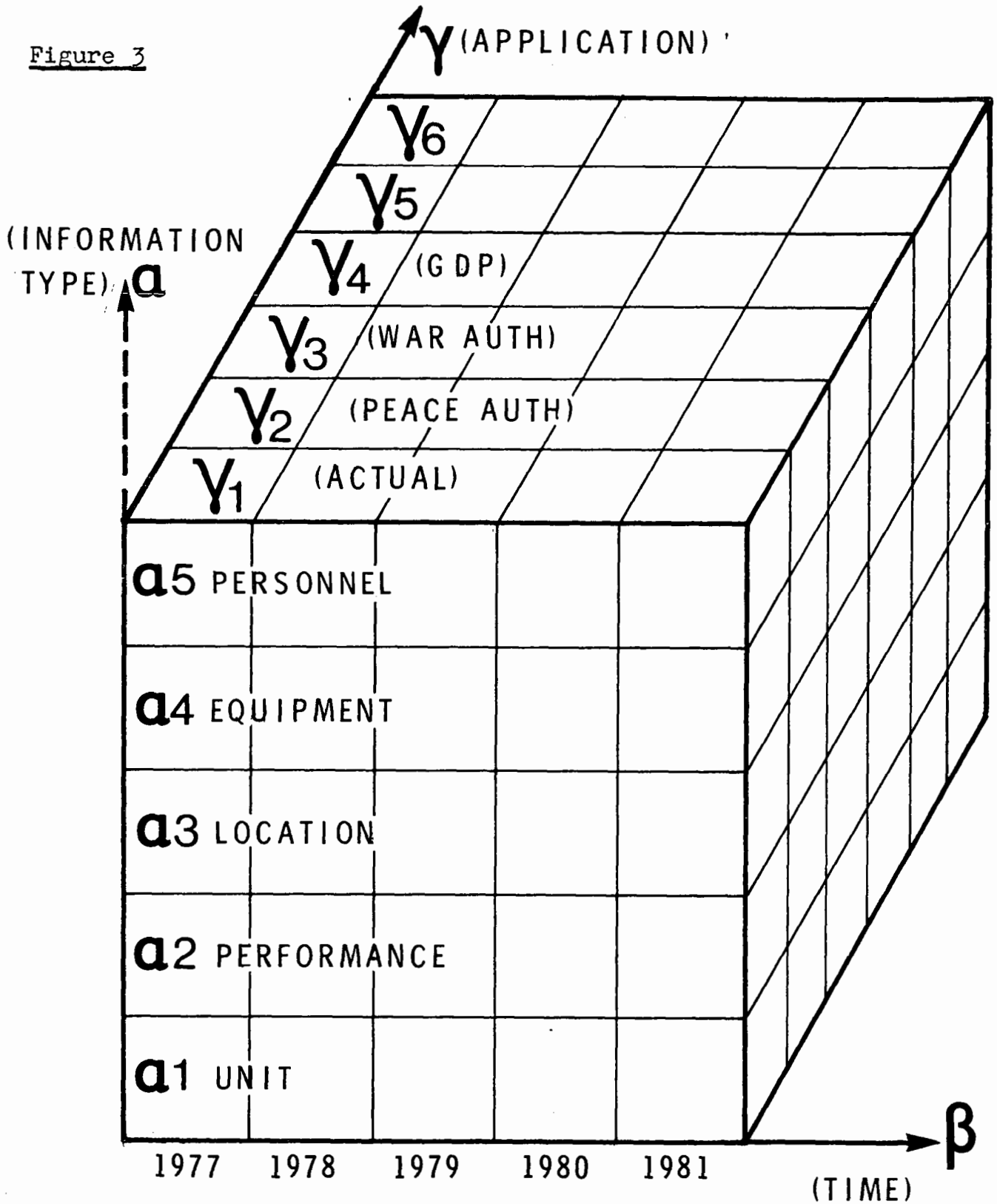
Figure 2



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THREE-DIMENSIONAL REPRESENTATION OF FDMA INFORMATION

Figure 3



2. FILE SYSTEM

This chapter is intended to provide the NFPDB users with a concise description of the data organisation within the data base. This is particularly to aid the NFPDB user in his comprehension of the content of, and the relationships between, the different record types, and only the overall schema of data items, records and files is addressed(1).

In general, it is not essential, however, for data users and providers to concern themselves with the structure of the NFPDB. It may simply be regarded as a black box, which requires inputs and provides outputs. The methods by which this is achieved are largely irrelevant to providers and users of information. Potential users will see from the Codes section the scope, nature and level of detail of the data held in the data base. In general, outputs can be produced linking these individual data items in any combination and to any level of aggregation. However, the structure of the data base makes the production of certain types of output easier and faster than that of others. Intending users of the data base should, therefore, first consult the Head of the Systems Analysis Section as to the feasibility of satisfying their particular requirements.

In its current layout the NFPDB consists of 14 physical files as listed in Figure 4. These are embedded into a global system as represented in Figure 5. The records of the physical files are linked with the aid of a data base management system. The linkage paths are also shown in Figure 5. These links between the records of different files are established by the data base management system (Figure 6).

-
- (1) The reader may wish to note that SAS prefers to distinguish between (a) logical input records (as described in Chapter 3 and (b) records of NFPDB physical files, bearing in mind, however, that the term "physical" is not necessarily conclusive as to the actual representation of data within the physical data base. It is felt that the latter aspect of internal data storage and manipulation is - in the general application context - of no concern to the user.

As in a conventional filing system, the information in a computerised data base is arranged in files according to its nature. However, the set of physical files shown in Figures 4 and 5 has, to a certain extent, been artificially conditioned by technical features of the data management system employed. For example, the system distinguishes between two types of file: Master Files, or Single-Entry Data Sets, denoted in Figure 5 by rectangular boxes, and Variable-Entry Data Sets, denoted by circles. The main significance of this distinction is that records of Single-Entry Data Sets can be accessed directly. Records of Variable-Entry Data Sets, in general, must be accessed via a Single-Entry Data Set. At the same time, a set of records in a Variable-Entry Data Set can be chained together and linked to one record in a Single-Entry Data Set. This is indicated by the lines linking files in Figure 5, which represent the pointers. Note the direction of the arrows.

The content of these physical files is indicated in Figures 7, 8 and 9 (together with the field lengths allocated to each data element). It can be seen that an appreciable part of the content is administrative material required by the data management system. The useful information content of the NFPDB will be described more fully in Chapters 3 and 4, when we come to deal with the input record formats. The mention of "coded records" in Figure 9 refers to an aspect of the data management system whereby part of the record can be redefined, i.e. the meaning of the content of the redefined part depends on the value of the code found in the first two positions of the record.

Figure 4

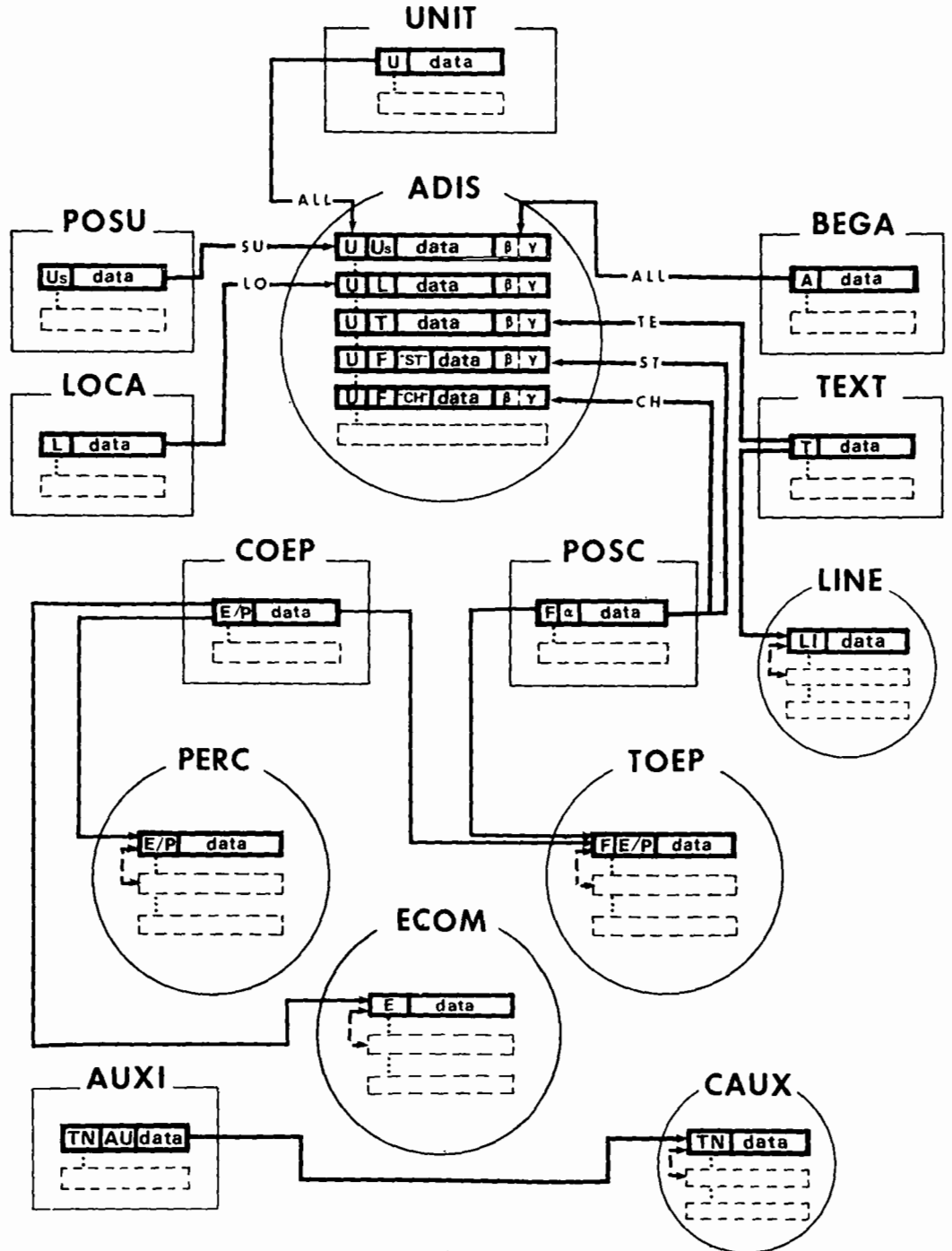
SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)

**NFPDB PHYSICAL FILES
DICTIONARY**

UNIT - UNIT FILE (elem. and compl. units)
ADIS - ALPHA DISTRIBUTOR FILE
POSU - SUPERIOR UNIT FILE (compl. units)
LOCA - LOCATION FILE
BEGA - BETA-GAMMA FILE
TEXT - TEXT FILE
LINE - LINE FILE
POSC - STEP/CHEP POINTER FILE
TOEP - UNIT STRENGTH FILE (equ. and pers.)
COEP - EQUIPMENT & PERS. CODE FILE
ECOM - EQUIPMENT COMPONENTS FILE
PERC - EQUIPM. & PERS. CHARACTER. FILE
AUXI - AUXILIARY FILE
CAUX - CODE-BOOK FILE

Figure 5

SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)
LINKAGE OF NFPDB PHYSICAL FILES



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Figure 6

SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)

**NFPDB PHYSICAL FILE RECORDS
DICTIONARY OF POINTERS**

- U - UNIT ID = UNIT key = pointer to ADIS
- Us - UNIT ID = Sup. UNIT key = point. to POSU
- L - LOCATION key = pointer to LOCA
- T - TEXT key = pointer to TEXT
- F - FORCE (CHEP or STEP) TABLE KEY =
Pointer to TOEP
- E - EQUIPMENT and WEAPON SYSTEM
COMPONENT code = pointer to
COEP, TOEP, PERC and ECON
- P - PERSONNEL TYPE code = pointer to
COEP, TOEP and PERC
- a - VARIABLE FIELD DATA ELEMENT DESIGNATOR
- B_S } TIME LIMITS OF APPLICATION
- B_E }
- Y - PLAN OF APPLICATION
- SU - "SUPERIOR UNIT" RECORD CODE
- LO - "LOCATION" RECORD CODE
- TE - "TEXT" RECORD CODE
- ST - "STEP" RECORD CODE
- CH - "CHEP" RECORD CODE
- AR - "UNIT STATUS"(Availability, Readiness, etc.)
RECORD CODE
- AI - "AIR UNIT STATUS" RECORD CODE
- TN - "TABLE-NUMBER" of AUXI FILE
- AU - "AUXI CODE"
- LI - LINE CODE

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SYSTEMS ANALYSIS SECTION
 NATO FORCE PLANNING DATA BASE (NFPDB)

PHYSICAL RECORD STRUCTURE OF NFPDB FILES

(1) SINGLE ENTRY FILES

Figure 7

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UNIT	root 8	UNIT ID 10	link ADIS 8	UPDATE INFO 8	UNIT NAME 32	UNIT CAT 6	UNIT ORG 1	UNIT LIFE 4
BEGA	root 8	B _s Y 2 2	link ADIS 8					
POSU	root 8	POSU key 10	link ADIS 8	UPDATE INFO 8				
LOCA	root 8	LOCA key 12	link ADIS 8	UPDATE INFO 8	LOCATION NAME 32	GEOGR. CO-ORD. 11		
TEXT	root 8	TEXT key 6	link ADIS 8	UPDATE INFO 8	link LINE 8			
POSC	root 8	STEP/CHEP key 12	a 2	link ADIS 8	link TOEP 8	UPDATE INFO 8	STEP NAME 32	STEP CAT 1
COEP	root 8	E/P code 6	link TOEP 8	link PERC 8	link ECOM 8	UPDATE INFO 8	E/P NAME 32	
AUX1	root 8	AUX1 key 10	UPDATE INFO 8	NAME 32	link CAUX 8			

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SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)
PHYSICAL RECORD STRUCTURE OF NFPDB FILES
(2) VARIABLE ENTRY FILES

Figure 8

TOEP	POSC key 14	link POSC 8	E/P code 6	link COEP 8	E/P QUANTITY 5
PERC	E/P code 6	link COEP 8	E/P CHAR. code 3	E/P CHAR. QUANTITY 6	
ECOM	E code 6	link COEP 8	E COMP. code 6	E COMP. QUANTITY 5	
LINE	LINE code 2	TEXT key 6	link TEXT 8	TEXT LINE 60	
CAUX	CAUX code 2	AUXI key 10	link AUXI 8	NAME 32	AUXI code 10

SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)

**PHYSICAL RECORD STRUCTURE OF NFPDB FILES
(3) VARIABLE ENTRY CODED RECORDS FILE**

Figure 9

ADIS

BASE DATA 34							REDEFINED DATA 22							
VFDE CODE 2	UNIT key 10	link UNIT 8	β_S 2	Y 2	β_E 2	link BEGA 8	data 22							
SU	"	"	"	"	"	"	POSU key 10	link POSU 8						
LO	"	"	"	"	"	"	LOCA key 12	link LOCA 8						
TE	"	"	"	"	"	"	TEXT key 6	link TEXT 8						
ST	"	"	"	"	"	"	STEP key 12	"ST" 2	link POSC 8					
CH	"	"	"	"	"	"	CHEP key 12	"CH" 2	link POSC 8					
AR	"	"	"	"	"	"	UPDATE INFO 8	READI- NESS 1	AVAIL. CODE 1	AVAIL. (DAYS) 2	DESIGN- ATION 1	TRANS. COM'D. 2	TRANS. CONTR. 2	TYPE FORCE 3
AI	"	"	"	"	"	"	UPDATE INFO 8	A/C READIN. 3	A/CREW READIN. 3	FLYING HOURS 4				

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3. INPUT RECORDS

3.1 General Concept

3.1.1 Introduction

By definition, one of the essential requirements of the NFPDB is its capability of storing an information volume sufficient to satisfy the totality of information needs identified within the NATO community. To achieve this, the amount of data fed into the base, and managed by the system, will be large by known comparative standards. There is, however, a physical limit, to the volume of data that the NFPDB can store.

The system is, therefore, designed with a view to minimising the level of data redundancy without reducing the required quality and quantity of information. Clearly, the application of this concept is bound to introduce in the design an additional degree of complexity, both in regard to internal data processes and as regards input preparation. This method provides, however, the advantage of great flexibility, coupled with ease of application.

3.1.2 Formats and Data Elements

Submission of information to the NFPDB is performed by the use of a set of clearly defined input record formats. Guidance as to their application for the presentation of force situations is given in Chapter 4.

A schematic representation of the 8 permissible record types used by data providers to report to the base is shown in Figure 10.

The data elements contained in each input record format are selected on the basis of:

- (near-) commonality in respect to one or more entities and their respective attributes and values;
- application dependence; and
- frequency of occurrence.

We distinguish between Fixed-Field Data Elements (FFDE) and Variable-Field Data Elements (VFDE). FFDEs always occur in every record of a given File, and always in the same positions in the record. The system software thus recognises the meaning of FFDEs from their position within the record. VFDEs, on the other hand, need not appear in every record of a particular type, and the order in which they appear in a record is immaterial. VFDEs must, therefore, carry their own definition (this is explained in paragraph 3.1.4 and Chapter 4).

As regards the total lengths of input records, we distinguish between fixed-length records (LOCA and COEP) and variable-length records (UNIT, TEXT, CHEP, STEP, PERC and ECOM). The change of all variable length records occurs as a "quantum" jump of a fixed (80-character card image) length. The quantum can accommodate up to three VFDEs (Variable Field Data Elements) in spaces described in Figure 11.

3.1.3 The Variable Data Element Technique

The "variable data element technique" is used in order to avoid, as far as possible:

- (a) carrying along a prohibitively large amount of unused fields in each record;
- (b) changes of record structures as new requirements arise; and
- (c) unnecessary duplication of identical information.

This is achieved in two ways. First, to each variable-length record, as many VFDEs are added as there are attributes and values of an entity. This method is used with TEXT, CHEP, STEP, PERC and ECOM. Second, VFDEs are used (in UNIT only) to express attributes and values of a unit, which are dependent on certain parameters, whereby the information is either contained in the VFDE itself (which is the case for VFDEs denoted by "SU", "AR" and "AI") or it is found in other records connected to the VFDE by a pointer. In the latter case, the VFDE serves as a "distributor".

3.1.4 ALPHA-BETA-GAMMA Activator

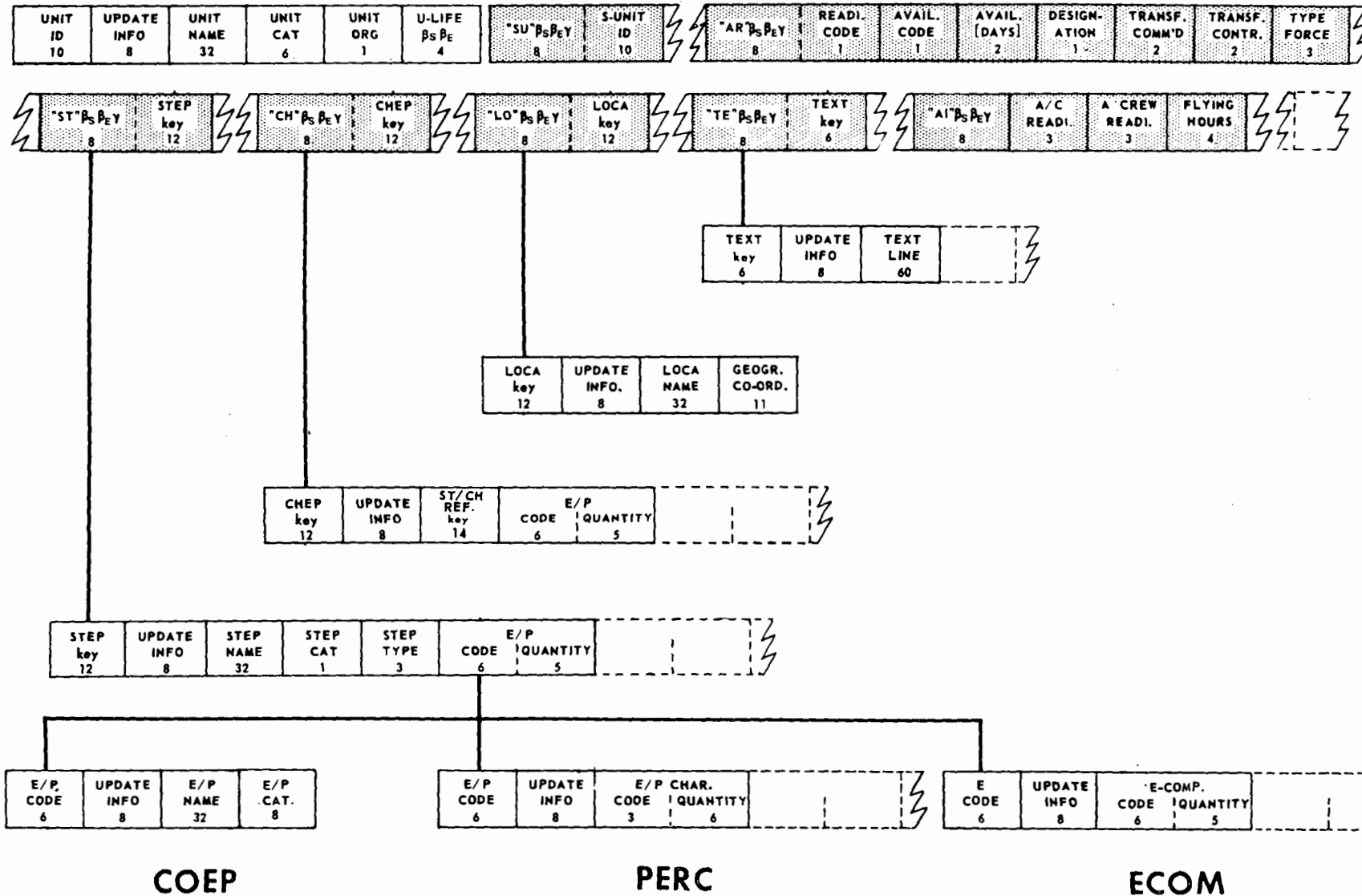
All VFDEs of the UNIT include their own definition, in order that the system may act on them. For the VFDEs of UNIT this definition is accomplished by an 8-character (alpha, beta, gamma key) "activator", which tells the system: (alpha) the type of information element; (beta) the time for which the information is valid; and (gamma) the plan or other condition for which the information is applicable.

As an example, let us consider the information type α = LOCATION: A unit's location may vary with time; in other words, a unit, in general, occupies a particular location for a period of time, which has a starting-point and an end-point. This is dealt with in the NFPDB by specifying the β -codes for the start and end of the time-period, β_S and β_E . Moreover, there may be several locations associated with a unit, during a given time period, e.g. its peacetime location, deployed or General Defence Plan (GDP) location, etc. This feature is referred to in the NFPDB as "applicability of plan" and is dealt with by assigning a different γ -code to each of these "plan applications".

SYSTEMS ANALYSIS SECTION
NATO FORCE PLANNING DATA BASE (NFPDB)

LOGICAL STRUCTURE OF NFPDB INPUT RECORDS

Figure 10



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Figure 11

STANDARD "A" CARD FORMAT

Unique Record Identification (Left adjusted)												Month												Record Description/Name (Optional)												Three Digit Card Sequence Field												Unit Code												Country Code																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
* (Optional use by nations)																																																																															

STANDARD "X" CARD FORMAT

Unique Record Identification (Left adjusted)												Information Element (Left adjusted)												Information Element (Left adjusted)												Information Element (Left adjusted)												Three Digit Card Sequence Field												Unit Code												Country Code											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80				

3.2 Layout of Input Record Formats

As a central system the NFPDB must be responsive to different levels of ADP operations within a heterogeneous data providers' community. Therefore, relevant standards that are believed to be in general use must be applied.

A basic dimensional element of the NFPDB input formats is the 80-character card(1) image. Within these dimensional limits, two standard formats - which we refer to as card types - are introduced:

A-Card type; and

X-Card type.

The general structure of the two card image types is presented in Figure 11.

With the exception of the COEP record, which consists of an A-Card only, each record will be composed of one (and only one) A-Card and (at least) one or more X-Cards. Except for LOCA, which has only one X-Card, the number of X-Cards used for each record is, in principle, unlimited and dependent on the information volume to be reported.

In summary, the input formats are made up as follows:

COEP : one A-type card image.

LOCA : one A-Card followed by one X-Card.

UNIT, STEP, CHEP, TEXT, ECOM, PERC:

one A-Card followed by as many X-Cards as are necessary to report the required information for the record.

Generally, the content of both card types can be reduced to three information groups:

(1) The use of the term "card" must be interpreted pictorially and should not be construed to mean that data input is carried out by means of punch cards. As a matter of fact, the NFPDB hardware cannot accept punch cards.

- entity identifier (= record key)
- descriptor(s)
- control data

For A-Cards, the position of each defined descriptor is fixed. Therefore, descriptors of A-Cards are referred to as "fixed-field data elements" (FFDEs). An FFDE descriptor consists of a value only. With the exception of the LOCA X-Card, where the positions of the descriptors are fixed, in X-Cards of all variable length records the descriptors (VFDEs) can be inserted in any desired order, into the available three spaces of equal length (20 characters) and of fixed positions. This is possible because each VFDE descriptor carries - in addition to a value - its own definition.

The detailed structure of cards, with their information elements for each input record type is presented as follows. (The tables, with footnotes, are considered self-explanatory.)

3.2.1 UNIT INPUT RECORD - Card A

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2 3-3 4-10	2 1 7	Nationality Service National Unit ID, left-adjusted	Unit ID	5.1.10 5.1.3	
11-12	2	Blank			
13-13 14-14	1 1	Type of Update Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-52 53-58 59-59	32 6 1	Unit Name Unit Function Organization		5.1.20 5.1.6	
60-61 62-63	2 2	BETA-Start BETA-End	Unit Existence(2)	5.1.13	
64-73	10	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update code (= "N") File code (= "UN") Card type (= "A")	Update Control	5.1.11.1 5.1.11.2	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) The time enclosed by the stated years denotes that period in which the unit is existent in NFPDB terms, i.e. the unit cannot have VFDEs with BETA assuming values outside the stipulated lifetime.

UNIT INPUT RECORD - CARD(S) X (1)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (2)
1-2 3-3 4-10	2 1 7	Nationality Service National Unit ID left-adjusted	Unit ID	5.1.10 5.1.3	
11-12	2	Blank			
Variable Field Data Element (VFDE) (3)	2 2 2 2 2 1 7	ALPHA BETA-Start BETA-End GAMMA Nationality Service National Unit ID (left-adjusted)	Subor-dination Element (Upward Pointer to Superior Unit)	5.1.12 5.1.13 5.1.13 5.1.14 5.1.10 5.1.3	
VFDE (3)	2 2 2 2 2 1 9	ALPHA BETA-Start BETA-End GAMMA Nationality of Host Country Region (6) UTM Co-ordinates	Pointer to LOCA File	5.1.12 5.1.13 5.1.13 5.1.14 5.1.10 5.3 5.3	
VFDE (3)	2 2 2 2 1 1 2 1 2 2 3	ALPHA BETA-Start BETA-End GAMMA Unit Readiness Availability Code Availability (days) Designation Transfer of Operational Command Transfer of Operational Control Type force	Unit status information (7)	5.1.12 5.1.13 5.1.13 5.1.14 5.1.8 5.1.9 5.1.7.1 5.1.7.2 5.1.7.3 5.1.19	

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UNIT INPUT RECORD - CARD(S) X (Continued)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (2)
VFDE (3)	2 2 2 2 2 1 9	ALPHA BETA-Start BETA-End GAMMA Nationality Service Unique STEP ID	Pointer to STEP record (for elemen- tary units only)(4)	5.1.12 5.1.13 5.1.13 5.1.14 5.1.10 5.1.3	
VFDE (3)	2 2 2 2 2 1 9	ALPHA BETA-Start BETA-End GAMMA Nationality Service National CHEP Record ID	(for elemen- tary units only)(4) Pointer to CHEP record	5.1.12 5.1.13 5.1.13 5.1.14 5.1.10 5.1.3	
VFDE (3)	2 2 2 2 3 3 4	ALPHA BETA-Start BETA-End GAMMA Aircraft readiness (%) (5) Aircrew readiness (%) (5) Average annual flying hours (5)	Informa- tion specific to air units	5.1.12 5.1.13 5.1.13 5.1.14	
VFDE (3)	2 2 2 2 6	ALPHA BETA-Start BETA-End GAMMA Unique 6-character code	Pointer to TEXT File	5.1.12 5.1.13 5.1.13 5.1.14	
74-76	3	Card sequence code (Optional)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "UN")		5.1.11.2	
80-80	1	Card Type (= "X")		5.1.11.3	

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Notes:

- (1) After the A-Card, the UNIT input record card-packet contains as many X-cards as are necessary to hold all the VFDEs to be inserted.
- (2) A data-element dictionary is in preparation.
- (3) This layout indicates the structure of all the VFDEs which may be inserted in a UNIT record. (But see Note (4) below.) It is not to be taken as meaning that they must be included in the order shown, or in any particular positions. VFDEs are entered on X-cards in any desired order at the rate of 3 VFDEs per card, left-adjusted in the following fields:

Card positions: 13-32, 33-52, 53-72
(See Figure 11: standard X-Card format)
- (4) Only the UNIT records corresponding to elementary units may contain information on personnel and equipment. Note, however, that a given unit may be elementary for certain BETA-GAMMA combinations and complex for others. (E.g. if planning information is reported at a higher level of aggregation than the current status.)
- (5) Figures right-adjusted integers.
- (6) For NATO locations insert "X". For Warsaw Pact locations insert Region code as appropriate.
- (7) Availabilities of less than 24 hours can be expressed as decimal fractions of a day by placing a decimal point in the leftmost position (e.g. ".6").

3.2.2 STEP INPUT RECORD - Card A

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2 3-3 4-12	2 1 9	Nationality Service National STEP Record ID	STEP ID	5.1.10 5.1.3	
13-13 14-14	1 1	Type of Update Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-52 53-53 54-56	32 1 3	STEP Table Name STEP Category STEP Type (3)		5.1.4 5.1.5	
57-59	3	Blank			
60-71	12	Forward Pointer to STEP (2)			
72-73	2	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "ST") Card Type (= "A")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) This pointer is the key of another STEP record. The purpose of this pointer is to place STEP records in a logical chain convenient for the data provider. The reporting of this field is optional.
- (3) STEP Category and STEP Type should be left blank for NATO forces. They must be inserted for Warsaw Pact forces.

STEP INPUT RECORD - Card(s) X (2)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn.(1)
1-2	2	Nationality	STEP ID	5.1.10	
3-3	1	Service		5.1.3	
4-12	9	National STEP ID			
	6	Equipment/	STEP Elements (Variable field data elements) (3)	5.2	
	5	Personnel Code Quantity		5.1.15	
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "ST")		5.1.11.2	
80-80	1	Card Type (= "X")		5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) After the A-card, the STEP record creation card-packet contains as many X-cards as are necessary to hold all the VFDEs to be inserted.
- (3) STEP record VFDEs are to be entered in any order, 3 per X-card, left-adjusted in positions 13-32, 33-52 and 53-72.

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3.2.3 CHEP INPUT RECORD - Card A

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2	2	Nationality	CHEP Record	5.1.10	
3-3	1	Service		5.1.3	
4-12	9	National CHEP Record ID			
13-13	1	Type of Update		5.1.1	
14-14	1	Update Source		5.1.2	
15-16	2	Year	Date of Update		
17-18	2	Month			
19-20	2	Day			
21-22	2	Nationality	Pointer to STEP/ CHEP record to which this CHEP record relates (2)	5.1.10	
23-23	1	Service		5.1.3	
24-32	9	National STEP Record ID			
	2	ST-CH Indicator			
33-73	41	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "CH")		5.1.11.2	
80-80	1	Card Type (= "A")		5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) A particular situation, characterised by a certain Beta-Gamma combination, may be described by a STEP record, or by a STEP record accompanied by one, or a sequence of several, CHEP records. Each additional CHEP record contains a change with respect to the situation described by the STEP record plus all the preceding CHEP records (if any). This field contains the key of the previous record in the sequence - either STEP (if this is the first CHEP record) or the previous CHEP. This field must be filled in, and the last record in a sequence must be a STEP.

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CHEP INPUT RECORD - Card(s) X (2)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2	2	Nationality	CHEP ID	5.1.10	
3-3	1	Service		5.1.3	
4-12	9	National CHEP ID			
Variable field data elements (3)	6	Equipment/	CHEP Elements	5.2	
	5	Personnel Code Quantity		5.1.15	
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "CH")		5.1.11.2	
80-80	1	Card Type (= "X")		5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) After the A-card, the CHEP record creation card-packet contains as many X-cards as are necessary to hold all the VFDEs to be inserted.
- (3) CHEP record VFDEs are to be entered in any order, 3 per X-card, left-adjusted in positions 13-32, 33-52 and 53-72.

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3.2.4 TEXT INPUT RECORD - A-Card

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2 3-3 4-6	2 1 3	Nationality Service Unique National 3-Character Identifier (left-adjusted)	TEXT Record ID	5.1.10	
7-12	6	Blank			
13-13 14-14	1 1	Update Type Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-73	53	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "TE") Card Type (= "A")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

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TEXT INPUT RECORD - X-Card (2)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn.(1)
1-2	2	Nationality	TEXT	5.1.10	
3-3	1	Service	Record	5.1.3	
4-6	3	Unique National 3-character ID (left-adjusted)	ID		
7-12	6	Blank			
13-72	60	60 characters of explanatory text or comments as desired by a nation	TEXT		
73-73	1	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "TE")		5.1.11.2	
80-80	1	Card Type (= "X")		5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) Each TEXT group must be contained in a deck of X-cards. A maximum of 60 characters per card is permitted, i.e. each card represents one half of a print line for output purposes.

The input sequence of TEXT X-cards for a given TEXT key must be the order in which the lines of text are to be printed out for that particular message.

Maximum number of X-cards is 99.

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3.2.5 COEP RECORD INPUT FORMAT - A-Card (1)(4)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (2)
1-6	6	Equipment or ⁽³⁾ Personnel Code	Uniquely Identifies Equipment Item or Personnel Category	5.2 5.1.15	
7-12	6	Blank			
13-13 14-14	1 1	Type of Update Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-52	32	Equipment Item/ Personnel Type Name			
53-73	21	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "CO") Card Type (= "A")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

Notes:

- (1) The input data for a COEP record are contained on a single A-type card.
- (2) A data-element dictionary is in preparation.

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Notes: (Continued)

- (3) This is an alphanumeric code of up to 6 characters in length whose function is uniquely to identify the equipment or personnel type and, simultaneously, to categorise it with respect to various criteria, as indicated in the appropriate Section of the System Manual - Part B. It is essential that two items of equipment should receive the same code only if they are truly identical in every respect, and are referred to by the same name by the reporting nations, e.g. an Agusta-Bell 205 helicopter reported by Italy should not be given the same code as a UH-1D helicopter reported by the United States.
- (4) Note that a COEP record A-card must be completed for every equipment item reported, including those which occur only as components of other equipment items.

3.2.6 ECOM(1) RECORD INPUT FORMAT - A-Card

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (2)
1-6	6	Equipment Code	Identifies uniquely Equipment Item	5.2	
7-12	6	Blank			
13-13 14-14	1 1	Type of Update Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-73	53	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "EC") Card Type (= "A")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

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ECOM RECORD INPUT FORMAT - X-Card (3)

Field		Data Element	Role	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (2)
1-6	6	Equipment Code	Uniquely Identifies Equipment Item	5.2	
13-18	6	Equipment Code	Uniquely(4) Identifies Equipment Item which is a <u>component</u> of the equipment item coded in pos. 1-6	5.2	
19-23	5	Quantity	The number of these <u>component</u> items contained by the item coded in pos. 1-6		
33-38 39-43	6 5	Equipment Code Quantity	Same function as previous field	5.2	
53-53 59-63	6 5	Equipment Code Quantity	Same function as previous field	5.2	
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 73-79 30-30	1 2 1	Update Code (= "N") File Code (= "EC") Card Type (= "X")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

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Notes:

- (1) The Equipment COMponents file contains records for a subset of equipment items for which it is desired to specify component sub-systems.
- (2) A data-element dictionary is in preparation.
- (3) The input card-packet for an ECOM record should contain as many X-cards as are necessary to hold all the components of the corresponding major equipment item which it is desired to report.
- (4) Note that for each component element not yet identified in the COEP file, a complete COEP record must be established.

3.2.7 PERC INPUT RECORD - Card A

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-6	6	Equipment/ Personnel Code		5.2 5.1.15	
7-12	6	Blank			
13-13 14-14	1 1	Update Type Update Source		5.1.1 5.1.2	
15-16 17-18 19-20	2 2 2	Year Month Day	Date of Update		
21-73	53	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "PE") Card Type (= "A")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

Notes:

(1) A data-element dictionary is in preparation.

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PERC INPUT RECORD - Card(s) X (2)

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-6	6	Equipment/ Personnel Code		5.2 5.1.15	
7-12	6	Blank			
Variable Field Data Elements (3)	3 6	PERC Type PERC Quantity	Performance or characteristics information element	5.4	
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "PE") Card Type (= "X")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) After the A-card, the PERC record creation card-packet contains as many X-cards as are necessary to hold all the VFDEs to be inserted.
- (3) PERC record VFDEs are to be entered in any order, 3 per X-card, left-adjusted in positions 13-32, 33-52 and 53-72.

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3.2.8 LOCA INPUT RECORD - A-Card

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2	2	(Host) Country (5)	Location ID (4)	5.1.10 5.3	
3-3	1	Region (3)			
4-12	2	UTM Grid Number			
	1	UTM Zone Letter			
	2	Letters for 100 km square			
	2	East co-ordinates in km			
	2	North co-ordinates in km			
13-13	1	Update Type		5.1.1	
14-14	1	Update Source		5.1.2	
15-16	2	Year	Date of Update		
17-18	2	Month			
19-20	2	Day			
21-52	32	Location name (left-adjusted)			
53-59	7	Blank			
60-61	2	(Host) Country	Forward Pointer to next LOCA Record (2)		
62-62	1	Region (3)			
63-71	9	Geographic location code			
72-73	2	Blank			
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77	1	Update Code (= "N")	Update Control	5.1.11.1	
78-79	2	File Code (= "LO")		5.1.11.2	
80-80	1	Card Type (= "A")		5.1.11.3	

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Notes:

- (1) A data-element dictionary is in preparation.
- (2) This pointer is the key of another LOCA record. The purpose of this pointer is to place locations in a logical chain convenient to data users and/or providers. Reporting of this field is optional.
- (3) For NATO locations insert "X". For Warsaw Pact locations insert appropriate region code.
- (4) All figures after UTM zone letter can be replaced by "X" if the accuracy of 1, 10 or 100 km is not desired.
- (5) For cases which are unsuitable for coding using the UTM system (such as the operational area of a ship), the codes for land and water divisions and subdivisions of the world given in Section 5.3 should be inserted, left-adjusted if necessary, in the Host Country field.

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LOCA INPUT RECORD - X-Card

Field		Data Element	Rôle	Reference for:	
Position From-To	No. of Characters			Codes	Defn. (1)
1-2 3-3 4-12	2 1 9	(Host) Country Region (3) UTM Co-ordinates (Same as "A" Card)	Location ID	5.1.10 5.3	
Variable Field Data Element (VFDE) (4)	2 2 1 3 2 1	Degrees of Latitude Minutes of Latitude Hemisphere of Latitude (N or S) Degrees of Longitude Minutes of Longitude Hemisphere of Longitude (E or W)	Geographic co-ordinate system (Latitude, Longitude) (2)		
74-76	3	Card sequence code (Optional, for data providers' use)			
77-77 78-79 80-80	1 2 1	Update Code (= "N") File Code (= "LO") Card Type (= "X")	Update Control	5.1.11.1 5.1.11.2 5.1.11.3	

Notes:

- (1) A data-element dictionary is in preparation.
- (2) One set of co-ordinates (latitude/longitude).
- (3) For NATO locations insert "X". For Warsaw Pact locations insert the appropriate region code.
- (4) Left-adjusted in first Data Element field of standard X-card Input Format.

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4. GUIDANCE FOR INPUT PREPARATION

4.1 General

This Chapter is intended to assist data providers in their task of collation; transcription into defined formats and in accordance with NFPDB programme logic; and transmission to the NFPDB of complete information on military forces.

4.1.1 Information Request

The Defence Review Committee (DRC) is authorised to request data providers to submit force information to the NFPDB. At present, the cycle of updating is one per year. The period between the request and the updating of the NFPDB should be as short as possible, and will depend mainly on the extent to which the information requested differs from that required previously. There would seem to be no reason, in principle, for the preparation of an update transaction tape from a national automated data base to take longer than a few days, if no new type of information is required. In general, the first submission of information by a nation is not synonymous with completion of updating of that nation's NFPDB files, since there are usually input errors to be corrected, etc. At present the target date for first submission of information is two months after the "as of" date.

4.1.2 Information Submission

- (a) Data providers are responsible for the safe transmission of information to NATO Headquarters. It is recommended that an NFPDB Action Officer be designated in each national Delegation at NATO HQ, with the general responsibility of ensuring the rapid and secure transfer of magnetic tapes and other urgent material between Systems Analysis Section (SAS) and the national office providing the NFPDB input. SAS should be notified by telephone, for example, as soon as input material arrives in the Delegation.

Information must be accompanied by a covering letter. The covering letter must:

- (1) state the security classification of the information enclosed.

- (2) confirm that the magnetic tape conforms to the technical specifications listed in paragraph (c) below.
- (3) include any other relevant instructions for the data base managers.

Because of NATO HQ regulations for the handling of classified documents, the classification of the covering letter itself, when separated from the enclosure(s) must also be shown.

- (b) Recipient of the information is the Data Base Administrator (Head, Systems Analysis Section, Defence Planning and Policy Division, NATO Headquarters, Brussels), who also acts as the custodian of the NFPDB content, in compliance with the rules and regulations set out in the Frame of Reference for the NFPDB(1).
- (c) Magnetic tapes are the only acceptable means on which information is submitted to the NFPDB, whereby the following requirements must be fulfilled:

Unlabelled

9 tracks

800 BPI (80/800 blocking factor)

- (d) To assist in the updating operation, the presence of a service expert of the data provider is most welcome.

4.1.3 Update Levels

At this early stage of system implementation, and for reasons not necessarily related to the technical system capabilities, data providers will submit information in two basically different modes:

4.1.3.1 Extra-ordinary Update

Under this mode, data providers will furnish information to the NFPDB:

- (a) as and when required; this applies to PERC and ECOM;

(1) DRC/N(76)30, dated 8th October, 1976

- (b) well in advance of the "ordinary update", and if, and only if, the information is not contained in the valid Coding Handbook but required for inputs under the ordinary update mode; this applies to LOCA and COEP.

In the case of 4.1.3.1(b) data providers must await the NFPDB administrators' confirmation of the validity of the submitted information, before it can be referred to in the process of ordinary update preparation.

4.1.3.2 Ordinary Update

Under this mode, data providers will submit to the NFPDB, at regular intervals and at the time stipulated, complete information on their forces. For this they will only use input record formats of: STEP, CHEP, TEXT and UNIT, whereby it is absolutely essential that data providers observe the sequence in which the information is contained on the input tape(s):

1. STEP transactions
2. CHEP transactions
3. TEXT transactions
4. UNIT transactions

4.1.4 Update Type

It is important to note that, for operational security reasons, the number of update options available to data providers is limited to one, and that is CREATION OF NEW RECORDS (update code = N).

Only the data base managers can initiate operations of other update types.

4.1.5 Other General Input Rules

4.1.5.1 Input Record Compactness

As stated in Section 3.2 the information required for the creation of a new record is submitted to the system in the form of one A-Card image followed by one or more X-Card images (except for COEP records). This sequence of card images, for a given record key, constituting one input record, is called the input (or update) packet. The input packet should be compact;

i.e. if there is more than one card image in the packet for a given record, the X-Card image(s) should follow immediately after the A-Card image, without any gaps. The input packet for one record should not be interrupted by card-images belonging to a different packet.

4.1.5.2 Input of Variable Field Data Elements (VFDEs)

VFDEs are input on X-Card images. Up to 3 VFDEs can be input on a single X-Card image, in positions 13 through 32, 33 through 52 and 53 through 72, i.e. 20 character spaces have been provided for one VFDE. The actual number of characters inserted varies from case to case, depending on the nature of the VFDE and whether or not it is concatenated with an Alpha-Beta-Gamma activator (as is the case with UNIT record inputs). The VFDEs (preceded, in UNIT records, by the appropriate $\alpha \beta \gamma$ combination) should therefore be inserted left-adjusted in the space provided.

All three VFDE fields on a given X-Card must be used before a further X-Card is added to the packet, i.e. there must be no gaps in the input stream of VFDEs for a given record. Naturally the second and/or third VFDE field on the last X-Card image of a given packet may be blank. Apart from the above rules the order in which the VFDEs occur in the input record packet may be freely chosen by the data provider and has no effect on the system. Note, however, that the sequence of input transactions prescribed in Section 4.1.3.2 must be observed.

4.1.5.3 Mandatory and Optional Fields

It goes without saying that, unless stated otherwise, all data fields of necessary FFDEs and VFDEs of input records must be filled in. The data fields for all input records are unambiguously identified in paragraphs 3.2.1 to 3.2.8. (The footnotes of the tables are important!!) All fields indicated on A-Cards must be filled in unless they are expressly marked "optional". On X-Cards the record key (in the first 12 positions) and the control information (in positions 77 through 80) must be inserted on every card image (see below)

4.1.5.4 Record Key

The record key is always placed in the first 12 positions of each card image in the input packet (i.e. it appears on the A-Card and is repeated on each of the X-Cards, if any). Since the length of the record key differs, depending on the record type, all 12 positions are not always used. The record key is inserted left-adjusted, i.e. starting in the leftmost position of the field, with any blank spaces occurring at the right.

4.1.5.5 Control Data

This information occurs in fixed positions on both types of card image and consists of:

- Type of Update (e.g. annual update, intermediate update, special update, etc.)
- Source of Update (e.g. Nation, IMS NATO-agreed Intelligence, etc.)
- Date of Update (if this is left blank by the data provider, the date on which the transaction is posted to the file at NATO HQ will be inserted)
- Card-sequence code (optional)
- File code (indicating which of the 8 input record types is involved in the transaction)
- Card type (A or X)
- Update code (indicating the nature of the transaction; as stated in Section 4.1.4, the only type of update transaction at present open to data providers is the creation of a complete new record).

4.1.5.6 Left and Right Adjustment

It is a general rule that, if a code or a quantity does not occupy the whole of the field provided for it, codes should be inserted left-adjusted and quantities should be inserted right-adjusted.

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4.2 Input Records

4.2.1 STEP/CHEP

STEP/CHEP records are associated with elementary(1) units, and only with elementary units.

Each STEP/CHEP record can be associated with more than one elementary unit.

STEP/CHEP records carry equipment and personnel information appertaining to elementary units. They are variable-length records, and the length of each record is a function of the number of equipment/personnel VFDEs contained in the record. The order of inserting VFDEs is unspecified. Within any given STEP or CHEP record no two VFDEs of the same equipment or personnel type may be reported.

Each STEP record and each CHEP record reported to the NFPDB must be identified uniquely (by an ID of less than 13 characters).

As opposed to what may be termed a "self-contained" STEP record the information content of a CHEP record is always related to another equipment/personnel table (STEP or CHEP). This is achieved by having in each CHEP record a pointer consisting of the key of the STEP or CHEP record (the "reference" record) to which the CHEP record relates.

It follows that, while a STEP can represent the complete strength(2) of one or more units, a CHEP per se cannot; CHEP records are used for the adjustment of a strength table, not, however, for its complete replacement. This adjustment is achieved by the insertion into the CHEP record of as many VFDEs as there are equipment/personnel elements requiring changes in type or quantity or both, whereby the new absolute value is recorded, and not merely the difference to yield the new value of an equipment/personnel type affected by the change. (Thus, if the number of a particular type of tank changes from, say, 136 to 150, the new CHEP record will contain "150" and not "+14".)

-
- (1) For the definition of "elementary" and "complex" units, see paragraph 4.2.2
 - (2) Strength = personnel strength and equipment

In order, then, to establish the complete strength applicable for the new situation (i.e. the situation for which the latest new CHEP record was introduced), the following operation must be performed.

- 1) replace all equipment/personnel elements of the "reference record" by those elements of the latest (new) CHEP which are equal in type; and add the remaining elements of both records; (the result thus obtained constitutes the complete strength, if and only if the reference record is a STEP);
- 2) if the reference record is a CHEP, perform an operation similar to 1) by using the result of 1) to adjust the next reference record; (the principle of this operation is reapplied until the last reference record (STEP) is reached).

Clearly, in order that the NFPDB software can correctly re-establish the force situation intended by the data provider, it is absolutely essential for the latter to fully understand and to rigorously apply the principle underlying the STEP/CHEP philosophy indicated above.

While the NFPDB system is, in principle, capable of accepting STEP records representing complete strength for all required situations, an abuse of this capability on the part of data providers would result in a prohibitively high level of data redundancy (storage difficulties!). Data providers are, therefore, urged to employ the STEP/CHEP method to the (greatest) extent possible.

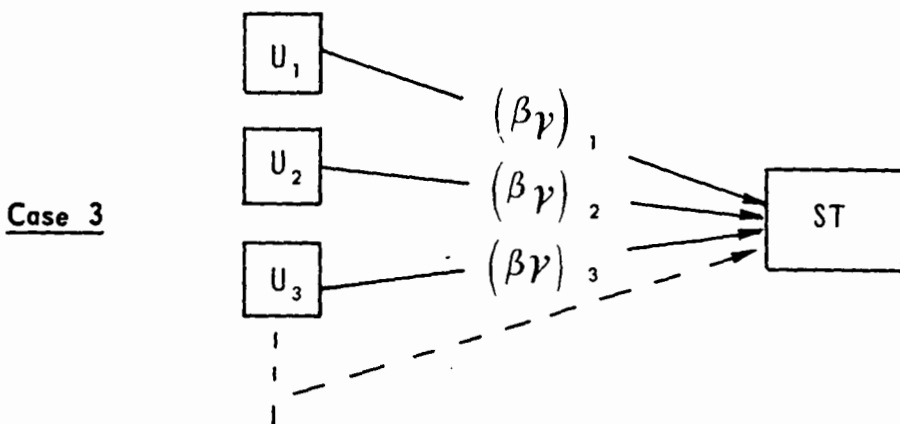
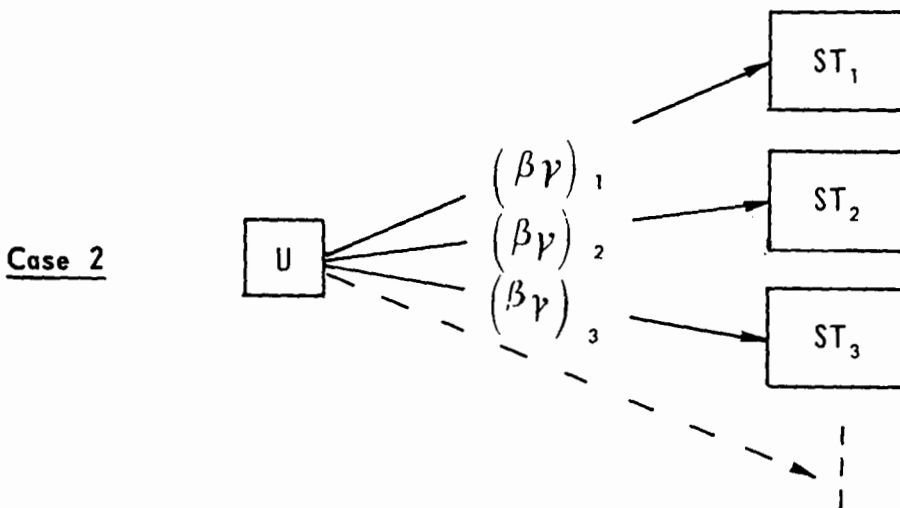
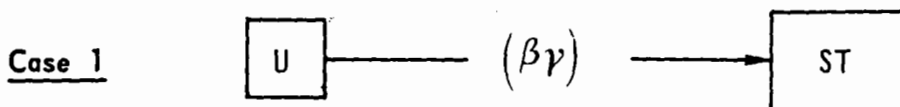
Ideally, a STEP should only be used to establish a standard, average or most representative table of equipment and personnel for one, or preferably a group of similar elementary units. Any adjustment as to the "real" status of strength of the individual units with respect to any time (β) and for any condition (γ) should be effected by CHEPs. It is, of course, possible, and in certain circumstances even desirable to introduce more than one STEP for one or a group of elementary units, during their lifetime. This decision must, however, be left at the discretion of the data provider who is expected to apply the rules of data management economy coupled with commonsense.

Clearly, the data provider will establish STEP and CHEP records only to the extent required to permit representation of the strengths of all elementary units for all required applications (β and γ). In the process he will, therefore, take into account the relationship between the number and content of STEP and CHEP records, and their linkages, on one hand, and the individual elementary units and the times and places for which the reported information is valid, on the other hand.

However, when reported to the NFPDB, the STEP/CHEP records will not contain information as to their association with units or conditions of application. Such an association will only be established through relevant messages contained in UNIT records. Some representative examples for unit-application-strength relationships are presented below:

A. GROUP OF TRIVIAL CASES

FORCE SITUATION IS REPRESENTED BY A STEP RECORD ALONE

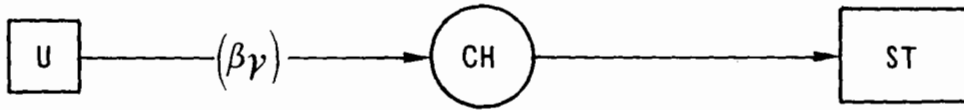


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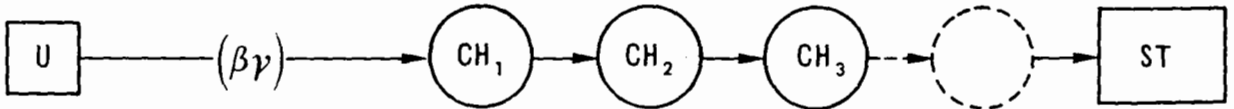
B. GROUP OF COMMON CASES

FORCE SITUATION IS REPRESENTED BY A CHAIN OF CHEP(S) AND A STEP

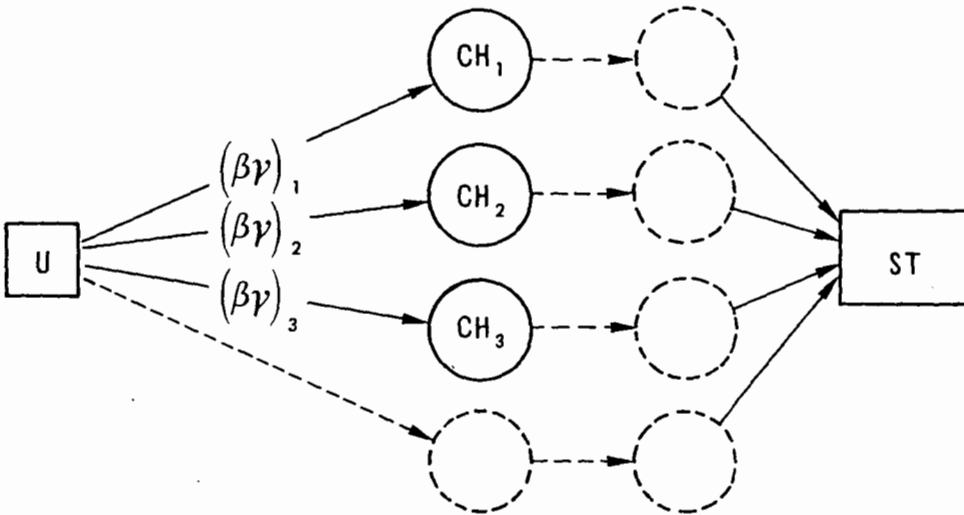
Case 4



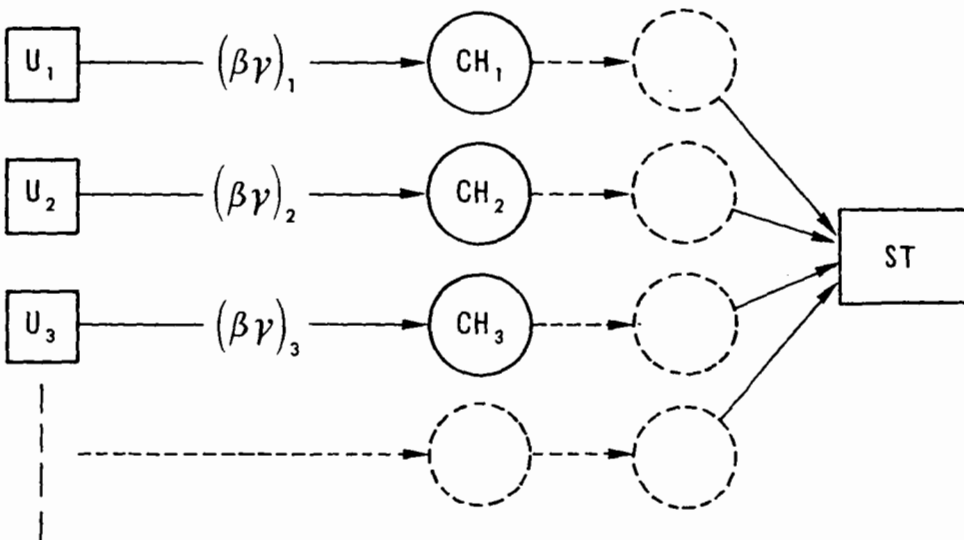
Case 5



Case 6

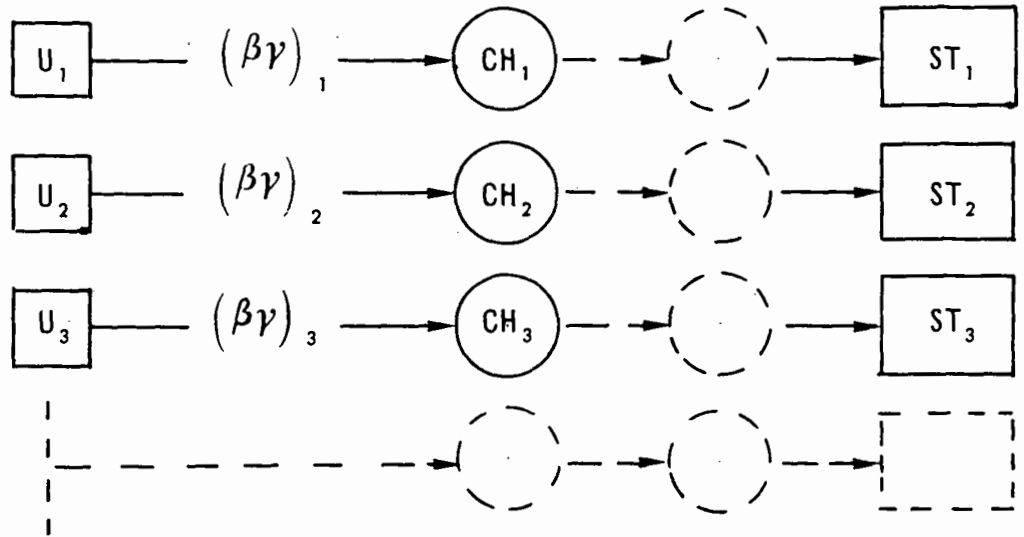


Case 7

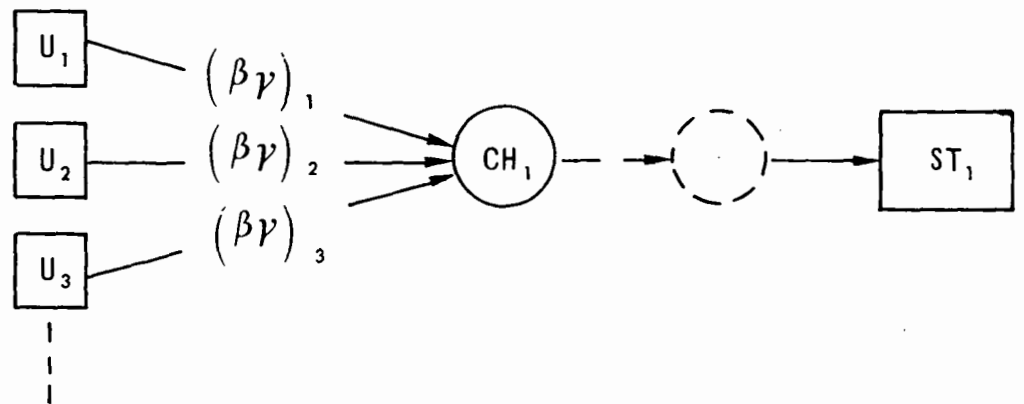


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Case 8

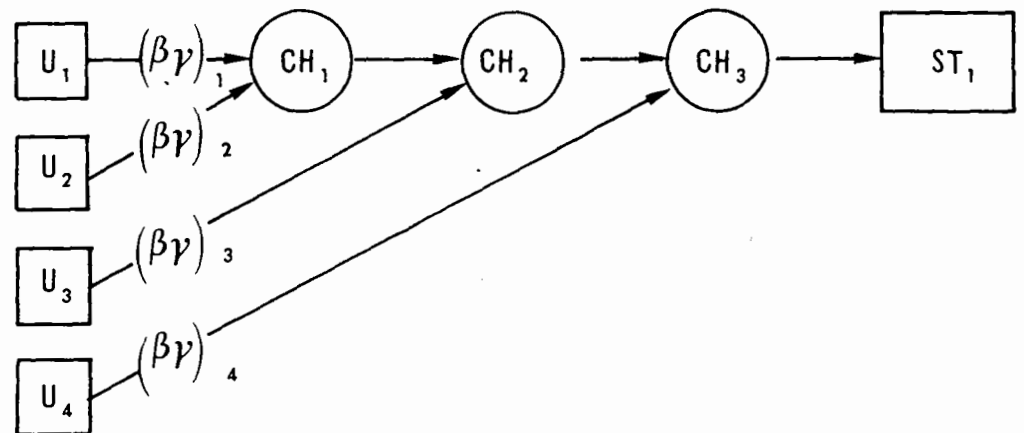


Case 9



C. ILLUSTRATION OF A MORE COMPLEX CASE

Case 10



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4.2.2 UNIT

For every single unit reported into the NFPDB, one, and only one, UNIT record is established.

The system is able to accept UNIT records in any order, without loss of capability to establish hierarchies. If, however, the data provider wishes to maintain a certain order of units within each subordination level, then he is obliged to insert the UNIT records in the desired order. This option is, however, given only for one BETA-GAMMA state.

In the context of the NFPDB, a unit can either be "complex" or "elementary". By definition, an elementary unit is a unit for which no subordinate units are reported to the NFPDB, while a complex unit is one which has subordinate units(1). Conversely, all units have at least one and, in case of subordination changes with respect to application ($\beta \gamma$), more than one superior unit(2).

The UNIT input record is designed to carry all essential unit-specific information, either in explicit form or by way of indicators pointing to other types of associated input records.

UNIT records are variable-length records, and the length of each record is a function of the number of VFDEs contained in the record. The order of inserting VFDEs is unspecified, both with respect to VFDE types and in regard to individual VFDEs of the same type.

-
- (1) The designations "elementary" or "complex" are not to be construed as an indication of size or organisational level of a unit reported to the NFPDB. A nation may, for example, report one part of its forces down to platoon level and another part only to divisional level. In the first case, the parent division would be a complex unit. In the second case, the division would be an elementary unit. The units subordinate to a complex unit may be elementary or themselves complex.
 - (2) The top-unit in a national hierarchy should, for technical reasons, always point to Unit ID: N2A000000000.

For all units, the UNIT records must, in addition to the A-Card data fields, contain at least one VFDE of the type "SU" and can, if necessary, have VFDEs of the types: "TE", "AI"(1), "AR" and "LO". Clearly, within a given UNIT record, the total number of VFDEs of any type will depend on the number of BETA-GAMMA combinations necessary to fulfil the necessary reporting requirements.

For elementary units, the UNIT records must, in addition to the essential information indicated above, contain:

- at least one VFDE of type "AR";
- at least one VFDE of type "LO";
- at least one "ST" or "CH" VFDE (see paragraph 4.2.1).

In no case should UNIT records of complex units contain "ST" or "CH" VFDEs!

It is important to note that all VFDEs of UNIT records contain as the first element the so-called ALPHA-BETA-GAMMA activator, that is the message telling the system:

- (1) the type of VFDE information (see ALPHA-codes);
- (2) the time limits within which the information contained in the respective data field is valid (see BETA-codes); and
- (3) the plan or condition (other than time) for which the information in the data field is applicable (see GAMMA-codes).

The data provider must ensure that the following conditions for BETA values of every VFDE in a UNIT record are fulfilled:

$$\left\{ \beta_{\text{Start}} \right\}_{\text{VFDE}} \geq \left\{ \beta_{\text{Start}} \right\}_{\text{Unit Life Time}}$$

$$\left\{ \beta_{\text{End}} \right\}_{\text{VFDE}} \leq \left\{ \beta_{\text{End}} \right\}_{\text{Unit Life Time}}$$

In the case that more than one VFDE of the same type must be inserted as a result of changes in the time-applicability, i.e. when $r = \text{const.}$, then the following rule applies:

-
- (1) "AI" VFDEs must always be inserted for flying units.

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$$\{\beta_{\text{Start}}\}_{\text{VFDE}_2} = 1 + \{\beta_{\text{End}}\}_{\text{VFDE}_1}$$

$$\{\beta_{\text{Start}}\}_{\text{VFDE}_3} = 1 + \{\beta_{\text{End}}\}_{\text{VFDE}_2}$$

etc.

where VFDE₁, VFDE₂, VFDE₃ are the first, second, third, etc. VFDEs of the same type in the order of increasing time. It is, of course, permissible to have:

$$\{\beta_{\text{Start}}\}_{\text{VFDE}_a} = \{\beta_{\text{End}}\}_{\text{VFDE}_a}$$

As regards the sequence of input, it goes without saying that, prior to the insertion of a pointer-type UNIT-VFDE, the data provider must ensure that the record pointed at is already contained in the input medium. If this is not the case, then the system will be unable to establish the linkage and reject the VFDE in question as a result. This difficulty will, clearly, be avoided if the "sequence rule" of paragraph 4.1.3.2 is consistently applied, and if, of course, no records pointed at are missing.

4.2.3

TEXT

TEXT records are intended to be used to convey, in narrative form, information about one unit or a group of units.

Data providers should note that 60 characters of text can be input on each "X" Card image (see Section 3.2.4) and that the maximum amount of text for any one key is limited to the content of 99 such card images. The X-Card images containing a text record must be in the correct logical sequence when submitted.

4.2.4

COEP

It should be noted that the COEP (physical) file of the NFPDB is intended to contain as many records as there are equipment and personnel types required for the NFPDB to fully meet the user requirements. These requirements can be purely unit-oriented or purely equipment-oriented, with overlapping areas of both domains.

As regards the annual service strength updating ("ordinary updating"), the COEP file is required to contain (at least) all those equipment/personnel types which are referred to in the force tables (STEPS and CHEPs). The data content of the COEP file will be presented in the System Manual(1).

In a rapidly changing equipment environment frequent changes to the list of equipment codes is anticipated. New codes will be added as the situation demands.

In order, however, that the Data Base Manager can maintain the COEP file in an up-to-date state, he must seek the co-operation of the Data Providers. The latter will, therefore, be expected to provide SAS with codes and associated names of those equipment types which are not contained in the currently valid System Manual, but which are needed for the "ordinary updating" of the NFPDB. Such supplementary (COEP file) information is submitted by means of "extraordinary updating" (i.e. well in advance of the "normal updating") so as to permit the Data Base Administrator to perform code uniqueness checks and, if necessary, to inform the Data Provider about code changes. The information will be submitted via a magnetic tape, on which each new equipment code will be presented according to the COEP input record format shown at paragraph 3.2.5 of this Manual. In assigning the codes, Data Providers will be expected properly to apply the criteria underlying the new equipment categorisation scheme.

COEP input records are fixed-length records (in fact, a COEP consists of one A-Card only).

-
- (1) Personnel Type Codes : System Manual, Part A, Chapter 5.1.15
Equipment Codes : System Manual, Part B, Chapter 5.2

4.2.5 ECOM

For certain applications it is essential that a means is provided to break down an equipment type into its components, to any desired level of detail, and to identify these, together with their quantities, as integral parts of the equipment. The sophistication of an item of equipment deemed to be broken down into its components may range from that of a ship, aircraft or air defence system to that of a gun. The system must, of course, make it possible to break down a component into its components, etc.

The ECOM (physical) file of the NFPDB is intended to provide this facility. It contains packages of records (with codes and quantities) of "component" equipment types. Each ECOM record package is linked to that COEP record which identifies the associated composite equipment type.

It is important to note that a COEP record must also be established, if not already present, for each "component" equipment type identified in the ECOM file.

ECOM input records are variable-length records, and the length of each record is a function of the number of the equipment component VFDES contained in the record. The ECOM record key is identical to the code of the "composite" equipment type (e.g. SAM system), while the data fields of the ECOM record X-Card(s) contain equipment type codes and quantities of the components (e.g. radars, launchers, etc. of the SAM system). The exact format of the ECOM input record is shown in paragraph 3.2.6 of this Manual.

4.2.6 PERC

The PERC (physical) file of the NFPDB is intended to store relevant information of a large spectrum of characteristics pertaining to individual equipment and personnel types. Such information will include design, mission, performance characteristics, as well as associated costs and time schedules.

The PERC (physical) file contains packages of records (with codes and quantities) of characteristic types; and each PERC record package is linked to that COEP record which identifies the equipment/personnel type about which characteristics are reported.

PERC input records are variable-length records, and the length of each record is a function of the number of the characteristics VFDEs contained in the record.

The exact format of the PERC input record is shown in paragraph 3.2.7 of this Manual.

PERC information will be submitted by Data Providers on special request only.

4.2.7 LOCA

One LOCA record must be established for every location to be reported to the Data Base. This applies to:

- (a) specific locations, consisting of a named town, village, or other feature together with co-ordinates defining its position to (for NFPDB purposes) the nearest kilometre;
- (b) more generalised location-type information indicating a larger area (e.g. "Baltic Sea", "Northern Flank", "NATO Guidelines Area", etc.).

For specific locations (as defined above) the LOCA input record must consist of:

- an A-card image with all mandatory fields filled in
- an X-card image with all mandatory fields filled in

and the geographic latitude and longitude entered as prescribed in paragraph 3.2.8, left-adjusted in positions 13 through 32.

For more generalised locations the LOCA input record must consist of a single A-card image with all mandatory fields filled in. The X-card image should be omitted in this case. The rightmost 9 positions of the LOCA record key must be filled with "X"s.

As in the case of COEP records (see Section 4.2.4 above) data providers wishing to report a new location for the first time must provide the Data Base Manager well in advance with the necessary LOCA input record, in the form of an "extraordinary update".

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5.1 GENERAL SYSTEM CODES

5.1.1 UPDATE TYPE CODE

<u>Type</u>	<u>Code</u>
Annual Update	1
Intermediate Update	2
Special Update	3
Error Correction	4
Special Correction	5

5.1.2 UPDATE SOURCE CODE

5.1.2.1 NATO FORCE INFORMATION

<u>Source</u>	<u>Code</u>
Nation	1
NATO International Staff	2
NATO International Military Staff	3
SACEUR	4
SACLANT/CINCHAN	5
Other Source	6

5.1.2.2 WP FORCE INFORMATION

<u>Source</u>	<u>Code</u>
IMS (NATO Agreed)	A
IMS (Own Estimate)	B
SACEUR (NATO Agreed)	C
SACEUR (Own Estimate)	D
SACLANT/CINCHAN (NATO Agreed)	E
SACLANT/CINCHAN (Own Estimate)	F
NATO International Staff (NATO Agreed)	G
NATO International Staff (Own Estimate)	H
BELGIUM Intelligence	I
CANADA Intelligence	J

N A T O R E S T R I C T E D

WP FORCE INFORMATION (Continued)

<u>Source</u>	<u>Code</u>
DENMARK Intelligence	K
FRANCE Intelligence	L
GERMANY Intelligence	M
GREECE Intelligence	N
ITALY Intelligence	O
NETHERLANDS Intelligence	P
NORWAY Intelligence	Q
PORTUGAL Intelligence	R
TURKEY Intelligence	S
UK Intelligence	T
US Intelligence	U
Non-NATO	V
WARSAW PACT Official Release	W
Open Publication	X
Other	Y

5.1.3

SERVICE CODE

<u>Data Item</u>	<u>Code</u>
Army	A
Air Force	F
Navy	N
Marines	M
Coast Guard	C
Paramilitary:	
- Border Troops	B
- Internal Security	S
- Other	P
- Unspecified	D
Joint/Mixed/Common	J
Unspecified	X

SERVICE CODE (Continued)

<u>Data Item</u>	<u>Code</u>
Warsaw Pact Strategic Rocket Forces	R
Warsaw Pact Air Defence of the Homeland:	
- Air	H
- Ground	K
- Unspecified	L

5.1.4 STEP CATEGORY CODE
(For use with Warsaw Pact forces only)

<u>Data Item</u>	<u>Code</u>
Major Headquarters	A
Combat Unit	B
Combat Support	C
Combat Service Support	D
Mixed	Y
Not Specified	X

5.1.5 STEP TYPE

5.1.5.1 NATO FORCES

Reserved

5.1.5.2 WARSAW PACT FORCES

<u>Data Item</u>	<u>Code</u>
BDE HQ	BHQ
DIV HQ	DHQ
HQS General	HQS
Army Corps HQ	MHC
Army HQ	MHZ
Regt HQ	RHQ
Territorial HQ	THQ
General Staff HQ	TSQ
Unspecified	XXX
Airborne Inf	ABN
Air Cavalry	ACC

WARSAW PACT FORCES (Continued)

<u>Data Item</u>	<u>Code</u>
Amphibious	AHP
Airmobile Inf	AMO
Armoured Cavalry	ARC
Anti-Tank	ATX
Barrier Inf	BAR
Tank Destroyer	DYK
Light Infantry	LJN
Armd/Mech Inf	MEC
Mountain Inf	MPJ
Motorized Inf	MTZ
Recon-Armd	REC
Special Inf	SAS
Tank	TKX
Unspecified	XXX
Anti-A/c Arty	AAA
Airborne Inf	ABN
Air Cavalry	ACC
Armoured	ADD
Atom Demol Eng	ADE
Air Format Sig	AFO
Amphibious	AHP
Airmobile Inf	AML
Amph Edg Eng	APB
Pack Arty	APK
Armoured Cavalry	ARC
Convent. Sp. Arty	ASC
Dual Capable Sp. Arty	ASD
Nuclear Sp. Arty	ASN
Convent. Tow Arty	ATC
Dual Cap Two Arty	ATD
Nuclear Two Arty	ATN
Anti-Tank	ATX
Army Aviation	AVA
Barrier Inf	BAR
Bridge Eng	BDG
C&C Ad	CAD
Biol Chem & Rad	CBR
CBR Defence	CCD
Chemical Unspec	CHE
Counter Info	CIX
Combat Eng	CME
Chem Smoke Gen	CSG
NBC Decont Prot	DEC
Demolition Eng	DEM
Tank Destroyer	DYK
Engineer	ENG

WARSAW PACT FORCES (Continued)

<u>Data Item</u>	<u>Code</u>
Topo Survey Eng	ETO
Early Warning	EWG
Gendarmerie	GEN
Light Anti-A/c	LAA
Light Infantry	LJN
Armd/Mech Inf	MEC
Military Intelligence	MIX
Mountain Inf	MPJ
Mortar	MPR
Military Police	MPX
Mult Rkt Lncr	MRL
Psycho-Warfare	MSY
Motorized Inf	MTZ
Observ Loc Arty	OBL
Interrogation	OIX
Miscellaneous	OTH
P.O.W. Activity	POW
Provost-Marshal	PRO
Recon-Armd	REC
Sur-to-Air Msl	SAM
Special Inf	SAS
Security	SCE
Signal Security	SEC
Electr Warf Sig	SEW
Signal Unit	SIG
Intell Radio Sig	SIR
Air Support Sig	SIS
Sur-to-Sur Msl	SSM
Traffic Control	TCN
Tank	TKX
Totals	TOT
Srv Topogr Arty	TPA
Acquis Arty	TRA
Unspecified	XXX
Admin Service	ADM
Med Transport	AMB
Ordn Ammunition	AMU
Ordn Ammo Maint	ATM
Army Avn Maint	AVM
Construct Serv	CNE
Signal Construct	CON
Composite Supply	COP
QM Cloth Supply	CPP
Maintenance Eng	EMA
Engineer	ENG
Eng Eqpt Supply	ENP

WARSAW PACT FORCES (Continued)

<u>Data Item</u>	<u>Code</u>
Plant Service	EPL
Port Service	EPT
Med Unspecified	MED
Ordn Wpns Maint	MMX
Ord Msls Maint	MMY
Sig Maint/Sply	MNT
Medical Sply Eqp	MSY
Med R2 FD Amb	MVA
Med R3 FD Hosp	MVB
Med R4 GEN Hosp	MVC
Maint/Sply Ordn	OAT
Pers/Gen Auxiliary	OGA
Comp Sply/Maint	OLG
Ordn Veh Maint	OMA
Composite Maint	OMD
Ordn Pol Supply	OPT
Ord Comp Maint	CRM
Miscellaneous	OTH
Ordn Telec Maint	OTW
Postal Unit	PCS
Ord Comp Supply	PRP
QM Pol Supply	PSD
QM Food Supply	QFD
QM Mixed Supply	QMY
QM Maint/Service	QSU
Railway Service	RLY
Pers/Rep/Rein	RPL
Signal Units	SIG
Ordn Nucl Supply	SNW
Signal Supply	SSP
Army Air Transp	TAA
Movement/Control	TCM
Traffic Control	TCN
Missile Transp	TML
POL Tanker Trans	TPT
Training/Schools	TRG
Tank Transport	TRK
Telephone Trunk	TRM
Pack Transport	TRP
Ordn Veh/Spares	VDP
Veterinary Serv	VET
Gen Truck Transp	VRA
Worker Service	WKS
Ordn Wpns/Spares	WSP

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5.1.6 UNIT ORGANIZATION (LEVEL) CODES

<u>Land Forces</u>	<u>Air and Naval Air Forces</u>	<u>Naval Forces</u>	<u>Size Symbol (1)</u>	<u>Code (2)</u>
Unit Levels Below Company	-----	-----		Ø
COMPANY (Battery, Squadron, etc.)	-----	-----	I	4
BATTALION	-----	-----	II	5
REGIMENT (Group, etc.)	-----	-----	III	6
BRIGADE (Combat Group, etc.)	-----	-----	X	7
DIVISION	-----	-----	XX	8
CORPS	-----	-----	XXX	9
Field ARMY	-----	-----	XXXX	A
Army GROUP	-----	-----		B
FRONT	-----	-----		C
MOD (or Major Command)	-----	-----		H

Notes:

1. These size symbols are taken from STANAG 2019.
2. The codes are taken from STANAG 2356.

These two references should assist data providers in determining the equivalent units to be used for air and naval forces.

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5.1.7 UNIT ASSIGNMENT STATUS

5.1.7.1 DESIGNATION OF FORCES CODE(1)

<u>Data Item</u>	<u>Code</u>
NATO Command Forces	C
NATO Assigned Forces	A
NATO Earmarked Forces	E
Other Forces for NATO	O
Forces Remaining Under National Command	N

5.1.7.2 TIME OF TRANSFER OF OPERATIONAL COMMAND TO NATO

5.1.7.3 TIME OF TRANSFER OF OPERATIONAL CONTROL TO NATO

For Sections 5.1.7.2 and 5.1.7.3 the codes given in Appendix 5 to Annex B to ACE DIRECTIVE No. 80-20 (Allocation of Forces and Transfer of Authority) should be used.

5.1.8 READINESS CATEGORY CODE

For Definition see MC 55/2 for NATO and MC 161 for Warsaw Pact.

<u>Data Item</u>	<u>Code</u>
READY - A	A
READY - B	B
READY - C	C
READY - UNSPECIFIED	X

5.1.9 AVAILABILITY CODE

For Definition see MC 55/2 for NATO and MC 161 for Warsaw Pact.

<u>Data Item</u>	<u>Code</u>
AVAILABILITY - UNSPECIFIED	X
AVAILABILITY - 1	1
AVAILABILITY - 2	2
AVAILABILITY - 3	3
AVAILABILITY - 4	4
AVAILABILITY - 5	5

(1) Force Designation Codes for Warsaw Pact units will be defined in due course.

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5.1.10

NATIONALITY, INTERNATIONAL AFFILIATION AND SOIL
COUNTRY CODE

For convenience, various geopolitical entities are here treated on the same basis as nations.

<u>Data Item</u>	<u>Code</u>
Albania	AL
Belgium	BE
Bulgaria	BJ
Canada	CA
Czechoslovakia	CZ
Denmark	DA
Europe	E
Faeroe	FO
France	FR
East Germany	GC
Germany	GE
Greenland	GL
Greece	GR
Hungary	HU
Iceland	IC
Italy	IT
Okinawa	JP
Korea	KS
Laos	LA
Luxembourg	LU
Mongolia	MG
Netherlands	NL
Norway	NO
NATO	N2
Poland	PL
Portugal	PO
Rumania	RO
Spain	SP
Thailand	TH
Turkey	TU
United Kingdom	UK
USSR	UR
United States	US
Vietnam	VS
W-Berlin	WB
Mixed/Unspec.	XX
Yugoslavia	YO
Warsaw Pact	Y8

If required, additional codes may be taken from Data Elements 005 and 006 of A Dat P1 - Part III. The Data Base Administrator must be informed, however, before such new codes are used in an update.

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5.1.11 UPDATE CONTROL CODES

5.1.11.1 UPDATE CODE

<u>Transaction</u>	<u>Code</u>
Creation of new record	N

(Other transactions are reserved for the Data Base Management Staff)

5.1.11.2 FILE CODE

<u>File</u>	<u>Code</u>	<u>Used by:</u>
UNIT	UN	Data Provider (normal update)
STEP	ST	"
CHEP	CH	"
TEXT	TE	"
COEP	CO	Data Provider (extraordinary update)
ECOM	EC	"
PERC	PE	"
LOCA	LO	"
POSU	SU	Data Base Administrator
BEGA	BE	"
AUXI	AU	"

5.1.11.3 CARD TYPE CODE

<u>Data Item</u>	<u>Code</u>
Fixed Field Data Element Cards	A
Variable Field Data Element Cards	X

5.1.12 ALPHA CODE

<u>VFDE Identifier of Unit Record</u>	<u>Code</u>
Superior Unit	SU
Location	LO
Unit Status Information	AR
STEP	ST
CHEP	CH
Air Unit Information	AI
TEXT	TE

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5.1.13

BETA CODE

<u>Data Element</u>	<u>Code</u>
Continual	XX
1977	77
1978	78
1979	79
•	•
•	•
•	•
1999	99
2000	00
2001	01
•	•
•	•
•	•

Note:

The use of BETA Codes is subject to the following general rule:

β_{Start} and β_{End} represent the time limits within which the represented situation is constant. In NFPDB terms, each situation is only allowed to start on 1st January of β_{Start} and to end on 31st December of β_{End} . Changes within a calendar year are not permitted.

Obviously, then, for the following period of time applicability there must be:

$$(\beta_{Start})_{II} = (\beta_{End})_{I} + 1$$

E.g. Case A: 1977 - XX

Case B: 1977 - 1977

1978 - 1980

1981 - XX

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5.1.14 GAMMA CODE

<u>Plan</u>	<u>Code</u>
Peace Authorized	PA
War Authorized	WA
Actual	AC

Note: Inputs must be provided for all three of the above Gamma codes.

5.1.15 PERSONNEL CODES

Each personnel type is designated by a 6-character code, the first three of which are always \emptyset and remaining three characters will be composed by the data provider according to the following scheme:

<u>4th Character</u>	<u>Code</u>
Officers	A
Other Ranks	B
Military, Unspecified	X
Civilian	C

5th Character

Regular	A
Conscript	B
Regular/Conscript	C
Reservist	D
Unspecified	X

6th Character

Active duty	A
Immediate recall/short leave	B
Reservists - general total	C
Reservists - to be called up in the first 15 days of mobilisation	D
Reservists - to receive at least one week's continuous training during the year	E
Unspecified	X

Some illustrative examples are shown in the following list (which is not necessarily intended to be exhaustive).

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<u>Personnel Type</u>	<u>Code</u>
Officer, Regular, Active Duty	øøøAAA
Officer, Conscript, Active Duty	" ABA
Officer, Regular/Conscript, Active Duty	" ACA
Officer, Reservist, Immediate Recall	" ADB
Officer, Reservist, To be called up in first 15 days of mobilisation	" ADD
Officer, Reservist, To receive at least one week's continuous training during the year	" ADE
Officer, Reservist, Unspecified	" ADX
Other Ranks, Regular, Active Duty	" BAA
Other Ranks, Conscript, Active Duty	" BBA
Other Ranks, Conscript, Immediate Recall	" BBB
Other Ranks, Regular/Conscript, Active Duty	" BCA
Other Ranks, Regular/Conscript, Immediate Recall	" BCB
Other Ranks, Reservist, Immediate Recall	" BDB
Other Ranks, Reservist (1st 15 days of mobilisation)	" BDD
Other Ranks, Reservist (training during year)	" BDE
Other Ranks, Reservist, Unspecified	" BDX
Military, Unspec., Regular, Active Duty	" XAA
Military, Unspec., Conscript, Active Duty	" XBA
Military, Unspec., Conscript, Immediate Recall	" XBB
Military, Unspec., Regular/Conscript, Active Duty	" XCA
Military, Unspec., Regular/Conscript, Immediate Recall	" XCB
Military, Unspec., Reservist, Immediate Recall	" XDB
Military, Unspec., Reservist, General Total	" XDC
Military, Unspec., Reservist (1st 15 days of mobilisation)	" XDD
Military, Unspec., Reservist (training during year)	" XDE
Military, Unspec., Reservist, Unspecified	" XDX
Civilian, Unspecified, Unspecified	" CXX

N A T O R E S T R I C T E D

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- 5.1.16 Reserved for future use.
- 5.1.17 Reserved for future use.
- 5.1.18 Reserved for future use.

5.1.19 TYPE FORCES

<u>Data Item</u>	<u>Code</u>
ACE Mobile Force	AMF
ACE Mobile Force/General Defence Plan	GDM
ACE Mobile Force/Regional Reserve	RAM
ACE Mobile Force/SACEUR's Strategic Reserve	AMR
Air Augmentation (Specific Type of Regional Reserve Unit)	AUG
Air Transport Unit (in accordance with MC 75)	ATU
Dual Based (Specific Type of GDP Unit)	DUB
General Defence Plan	GDP
General Strike Plan	GSP
Maritime Contingency Force	MCF
NATO Europe Integrated Air Defence (in accordance with MC 54)	ADF
Rapid Reaction (Specific Type of Regional Reserve Unit)	RAP
Regional Reserve	RRR
SACEUR's Strategic Reserve	SSR

5.1.20 UNIT FUNCTION CODES

<u>Code</u>	<u>Data Element</u>
A0000	Firepwr Delivery-Strategic (FPS)
A1000	FPS Anti-Air
A1100	FPS Air-to-Air
A1110	FPS Air-to-Air All-Weather Ftr
A1120	FPS Air-to-Air Day Fighter
A1200	FPS Grnd-to-Air
A1210	FPS Grnd-to-Air HISAM
A1220	FPS Grnd-to-Air LOSAM
A1230	FPS Grnd-to-Air SHORAD
A2000	FPS Anti-Ground
A2100	FPS Air-to-Grnd
A2200	FPS Grnd-to-Grnd
A2300	FPS Subsurface-to-Ground

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UNIT FUNCTION CODES (Continued)

<u>Code</u>	<u>Data Element</u>
BC000	Firepwr Delivery-Theatre (FPT)
B1000	FPT Anti-Air
B1100	FPT Air-to-Air
B1110	FPT Air-to-Air All-Weather Ftr
B1120	FPT Air-to-Air Day Fighter
B1200	FPT Surface-to-Air
B1210	FPT Surf-to-Air HISAM
B1220	FPT Surf-to-Air LOSAM
B1230	FPT Surf-to-Air SHORAD
B2000	FPT Anti-Ground
B2100	FPT Anti-Ground Air-to-Ground
B2110	FPT Anti-Grnd A-G Attack
B2120	FPT Anti-Grnd A-G Strike
B2130	FPT Anti-Grnd A-G Strike/Attack
B2140	FPT Anti-Grnd A-G Attack/Recce
B2150	FPT Anti-Grnd A-G Helo Wpn Platfm
B2200	FPT Anti-Ground Ground-to-Ground
B2210	FPT Grnd-to-Grnd Direct Fire
B221A	FPT/GGDF Armour
B221B	FPT/GGDF Reconnaissance
B221C	FPT/GGDF Armoured Inf
B221D	FPT/GGDF Mechanised Inf
B221E	FPT/GGDF Motorised Inf
B221F	FPT/GGDF Light Inf
B221G	FPT/GGDF Anti-Tank Inf
B221H	FPT/GGDF Mountain Inf
B221I	FPT/GGDF Amphibious Inf
B221J	FPT/GGDF Airborne Inf
B221K	FPT/GGDF Airmobile Inf
B2220	FPT Grnd-to-Grnd Indirect Fire
B222A	FPT/GGIF SSM/ROCKET-Conv.
B222B	FPT/GGIF SSM/ROCKET-Nucl.
B222C	FPT/GGIF SSM/ROCKET-Dual
B222D	FPT/GGIF Gun/Howitzer-Conv.
B222E	FPT/GGIF Gun/Howitzer-Nucl.
B222F	FPT/GGIF Mult Rocket Lchr.
B222G	FPT/GGIF Mortars
B3000	FPT Anti-Air/Anti-Ground
B3100	FPT AntiA/AntiG AWX/Strike/Attck
B3200	FPT AntiA/AntiG AWX/Attack
B3300	FPT AntiA/AntiG Day Ftr/Attack
B4000	FPT Antimaritime (FPT/AM)
B4100	FPT Anti-mar Air-to-Surface
B4200	FPT Anti-mar Air-to-Subsurface
B4300	FPT Anti-mar SFC-to-SFC/Subsurface
B4400	FPT/AM Subsfcce-to-Surf/Subsurf

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UNIT FUNCTION CODES (Continued)

<u>Code</u>	<u>Data Element</u>
B5000	FPT Anti-Air/Anti-Maritime
B5100	FPT-AM/AA Surf-to-Surface/Air
B5200	FPT-AM/AA Surf-to-Surf/Sub/Air
C0000	Admin+Personnel Services (ADM)
C1000	Adm Personnel Administration
C2000	Adm Dependent Schools
C3000	Adm Automated Data Processing
C4000	Adm Financial Services
C5000	Adm Public Relns
C6000	Adm Admin of Reserves
C7000	Adm Personnel Replacement
C8000	Adm Miscel Admin Services
D0000	Command Control Communications
D1000	CCC Headquarters
D1100	CCC HQ Firepower Delivery
D1200	CCC HQ Engineer/Environmental
D1300	CCC HQ Logistics
D1400	CCC HQ Miscel
D2000	CCC Control
D2100	CCC Control Air Traffic Services
D2200	CCC Control Control + Reporting
D2300	CCC Control Other
D3000	CCC Communications
D3100	CCC/Com Telecoms-Installn Spt
D3200	CCC/Com Telecoms-Area Support
D3300	CCC/Com Telecoms-Long Haul
D3400	CCC/Com Postal/Courier Services
D4000	CCC Composite Cmnd Contrl Comms
E0000	Composite Logistics Svces (Log)
E1000	Log Mobile Avn Platforms
E2000	Log Replenishment
E3000	Log Other Comp Logistics Svces
F0000	Defence Management
G0000	Engineering/Environmental (Eng)
G1000	Eng Barrier/Cover/Demolition
G1100	Eng Bar/Cov/Dem Conventional
G1200	Eng Bar/Cov/Dem Dual
G2000	Eng Bridging/Ferry
G3000	Eng Construction + Repair

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UNIT FUNCTION CODES (Continued)

<u>Code</u>	<u>Data Element</u>
G4000	Eng Composite Engineering
G4100	Eng Comp Eng Conventional
G4200	Eng Comp Eng Dual
G5000	Eng Geophysical Services
G6000	Eng Nucl/Biol/Chem Defence
H0000	Installation Operations
I0000	Intel/Targeting/Electr Warfare
I1000	Int Analysis/Processing
I2000	Int Recce/Tgting/Surveillance
I3000	Int Electronic Warfare
J0000	Maintenance/Repair (Mai)
J1000	Mai Maintrep- Aircraft
J2000	Mai Maintrep- Ground Vehicles
J3000	Mai Maintrep- Floating Craft
J4000	Mai Maintrep- Armament
J5000	Mai Maintrep- Comm/Electronics
J6000	Mai Maintrep- Composite
J7000	Mai Maintrep- Other
K0000	Medical (Med)
K1000	Med Evacuation
K2000	Med Initial Treatment + Evac
K3000	Med Treatment + Convalescence
K4000	Med Auxiliary Services
L0000	Mil/Civ Assist-Ance/Liaison (Mal)
L1000	Mal Civil Affrs
L2000	Mal Military Assistance
L3000	Mal Liaison
M0000	Mil Security/Law Enforcement (Sec)
M1000	Sec Instaln Secy + Law Enforcement
M2000	Sec Area Security
M3000	Sec Confinement
M4000	Sec Investigatns
N0000	Psychological Warfare (Psy)
P0000	Resch, Devpmnt, Testing + Acq (Rnd)
P1000	Rnd Equipment Acquisition
P1100	Rnd Equip Acq- Procurement
P1200	Rnd Equip Acq- Production
P1300	Rnd Equip Acq- Prog Management

UNIT FUNCTION CODES (Continued)

<u>Code</u>	<u>Data Element</u>
P2000	Rnd Personnel Acquisition
P3000	Rnd Real Estate Acquisition
P4000	Rnd Technology Acquisition
P4100	Rnd Tech Acq Human Resources
P4200	Rnd Tech Acq Materiel/Equipmt
P4300	Rnd Tech Acq Tactics/Concepts
Q0000	Search/Rescue (SAR)
R0000	Supply (Sup)
R1000	Sup Inventory Control
R2000	Sup Armament Supply
R3000	Sup Petroleum Supply
R4000	Sup Other Supply
S0000	Training + Educn - Mil Pers (Trg)
S1000	Trg Basic Mil Training
S2000	Trg Job-Related Skill Trng/Evaln
S3000	Trg Officer+NCO Acquisition Trng
S4000	Trg Career Development Trng
S5000	Trg Training Support
T0000	Transportation (Tpt)
T1000	Tpt Airlift
T2000	Tpt Railway
T3000	Tpt Roadway
T4000	Tpt Sealift/Waterway
T5000	Tpt Terminal Services
T5100	Tpt Terminal Svc - Air
T5200	Tpt Terminal Svc - Water
T5300	Tpt Terminal Svc - Land
U0000	Artificial Units (Atf)
U1000	Atf Manpower Supernumeraries
U2000	Atf Materiel Stock Holding

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5.2 EQUIPMENT CODES

See Section B of this Manual.

5.3 LOCATION CODES

5.3.1 NATO LOCATIONS

5.3.1.1 Specific Locations

Reserved.

5.3.1.2 Divisions of the World (Source: ADatP1 - Part III)

Data Item

Code

(to be entered left-adjusted,
i.e. in position 1 of the
LOCA A and X Card image
formats - see Section 3.2.8)

Africa	F
Antarctic Continent	T
Arctic Ocean Aggregate	5
Asia	A
Australian Continent	U
Baltic Sea Aggregation	7
Europe	E
Great Lakes Aggregation	9
Indian Ocean Aggregation	6
Mediterranean Sea Aggregation	8
North America	M
North Atlantic Ocean Aggregation	1
North Pacific Ocean Aggregation	3
South America	S
South Atlantic Ocean Aggregation	2
South Pacific Ocean Aggregation	4

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5.3.1.3 Land Sub-Divisions of the World
(Source: ADatP1 - Part III)

Data Item

Code

(to be inserted in place of
the Soil Country code in the
LOCA 'A' and 'X' card-images)

Arabian Peninsula	A4
Australasia	U1
Benelux	E3
British Isles	E2
Caribbean Isles	N5
Central Asia	A6
Communist East Europe	E5
East Africa	F3
East Asia	A7
Fennoscandia	E1
Lower North America	N4
Lower South America	S2
North Africa	F1
Northeastern Asia	A2
South Asia	A5
Southeast Asia	A8
Southern Africa	F4
Southwest Asia	A3
Upper North America	N3
Upper South America	S1
West Africa	F2
Western Europe	E4

5.3.1.4 Water Bodies of the World (Source: ADatP1 - Part III)

Data Item

Code

(to be inserted in place of the Soil Country code in the LOCA 'A' and 'X' card-images)

Adriatic Sea	8D
Aegean Sea	8G
Arabian Sea	6R
Aral Sea	8R
Arctic Ocean	5A
Atlantic Ocean, North	1A
Atlantic Ocean, South	2A
Azor, Sea of	8Z
Baltic Sea	7B
Barents Sea	5B
Beaufort Sea	5U
Bering Sea	5D
Bering Strait	5R
Black Sea	8B
Bosphorus	8P
Caribbean Sea	1X
Caspian Sea	8C
Finland, Gulf of	7F
Gibraltar, Strait of	8S
Hudson Bay	1H
Indian Ocean	6A
Irish Sea	1R
Japan, Sea of	3J
Marmara, Sea of	8M
Mediterranean Sea, Western	8W
Mediterranean Sea, Eastern	8E
Mexico, Gulf of	1M
North Sea	1N
Pacific Ocean, South	4A
Pacific Ocean, North	3A
Panama Canal	1J
Persian Gulf	6P
Red Sea	6E
Siberian Sea, East	5S
Suez Canal	6U
Suez, Gulf of	6W

Note:

The above list is a selection from Data Element No. 004 of ADatP1 - Part III. Data providers who wish to use other data items from this data element should first inform the Data Base Manager, to ensure that the new entries are recognised as valid codes.

5.3.2 WARSAW PACT LOCATIONS

Reserved.

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