

MEMO 4C-3/168

MEMO CP-D/4

To: Distribution  
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Subject: Dictionary update


4 June 1976

The transmission of updated dictionaries which was due in middle of May, has been delayed a bit in order to include all the new codes and dictionaries agreed during the recent meetings, for NND and, particularly, for CPND.

Attached are

- some comments on the present dictionary update
- an addition to the dictionary update procedures to be included in the Manual.

Clearance: J.J. Schmidt



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Some comments on the present dictionary update

1. The present dictionary update is supposed to include all new codes and dictionaries as we believe have been agreed, subject to revisions which may become necessary on the ground of the minutes of the meetings to be agreed upon.
2. The new dictionaries for CPND are a start and do not aim at completeness. As all dictionaries they <sup>are</sup> open ended, and suggestions for additional codes to be included can be submitted whenever a need comes up.
3. Dictionary 20 as suggested by KACHAPAG, consisted of two parts which referred to different keywords and which were apparently not related to each other. Therefore, the part referring to the keyword "REL-REF" has been separated and put into the new Dictionary 17.
4. Dictionary number 33 had not been agreed explicitly, however it had been reserved for the particle codes occurring within a reaction code. For this purpose we have introduced this dictionary being a subset of Dictionary 13 which contains more codes which are used under PART-DET but so far not within the reaction codes.
5. Some codes proposed for CPND (e.g. CPX-CURVE in Dict. 16, and others) exceeded the agreed length of 5 characters. We shortened these codes; if KACHAPAG or someone else prefers to submit these codes shortened in a different way, this can easily be corrected. Codes concerned are:

<u>Dict.</u>	<u>old</u>	<u>new</u>
16	CPX-CURVE	CPX
18	ISOCYC SYNCYC	ISOCY SYNCY
21	MONSEP MONMIX	MOSEP MOMIX
23	INTANG	INTAN

6. The new dictionaries introduced are:

Number	Name	Expansion included	Associated information identifying keyword
17	REL-REF SUBFIELD SF2	YES	REL-REF
20	ADDITIONAL RESULTS	YES	ADD-RES
30	PROCESS (REACTION SF3)	NO	REACTION
31	BRANCH (REACTION SF5)	NO	"
32	QUANTITY GIVEN (REACTION SF 6)	NO	"
33	REACTION PARTICLES (REACTION SF 2,3,7)	NO	"
34	MODIFIERS (REACTION SF 8)	YES	"
35	DATA-TYPE (REACTION SF 9)	YES	"

7. In Dictionaries 30 - 33 no "expansions" have been introduced. To produce expansions for the reaction codes to be intelligible by humans without looking up dictionaries, is not a trivial matter which requires further consideration. For integral CPND which have mostly self-explanatory reaction codes, the problem of code expansion is not urgent. For expansion of the more complex codes of differential CPND one will most likely have to create a separate dictionary corresponding to Dictionary 14 of NND Exfor. This may be created later at the time when producing a dictionary converting the codes from Dictionary 14 into the REACTION formalism.
8. The introduction of new dictionaries required an addition to the computer program by which the dictionaries are updated. The specifications are given in the proposed Exfor Manual page attached.

## VII.1c

c) Insert

## (i) Single insertion

Col. 1 - 66

67 - 79

80

Text of record to be inserted

ID of record after which insert is  
to be made

I

## (ii) Several consecutive insertions

First card as c

Continuation cards:

Col. 1 - 66

67 - 74

75 - 80

Text of record to be inserted

As c) (i) above.

Continuation number, starting with  
2, no leading zeros.

Action: The records are inserted following the record having the ID specified on the first insert card, and each inserted record is flagged (I).

## (iii) Insertion of an entire new dictionary

First card: col. 1-7: 'DICTION'  
21-22: dictionary number  
35-66: free text (title of dictionary)  
67-79: '300000NN00001' (NN = dictionary number)  
80: 'I'

Dictionary cards:

col. 1-66: dictionary information  
67-74: '300000NN' (NN = dictionary number)  
75-80: blank

Last card:

col. 1-10: 'ENDDICTION'  
11-66: blank  
67-79: '300000NN99999' (NN = dictionary number)  
80: blank

d) Obsolete

Col. 1 - 11 Same as Col. 1 - 11 of the record to be obsoleted.

12 - 66 Free text. E.g., reason for obsolescence and/or reference to relevant 4C - Memo.

67 - 79 ID of record to be obsoleted.

80 0 (letter Oh).

Action: The record having the specified ID has the obsolete-flag set to 0 (if Col. 1 - 11 agree). The alter-flag remains unchanged.