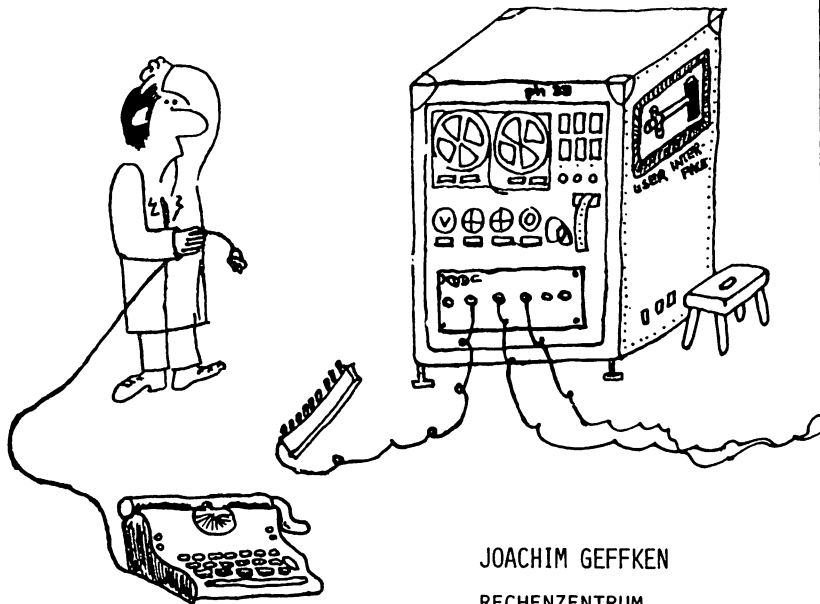


Integrated Data - and

Textprocessing with hp3000



JOACHIM GEFFKEN
RECHENZENTRUM
HERBERT SEITZ KG
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2800 BREMEN 1

IDT

RECHENZENTRUM HERBERT SEITZ KG

Survey

⇒ Introduction

⇒ File access



⇒ Dataselection

⇒ Correction aid

⇒ Customizer

⇒ Supervisor

⇒ Interface

IDT

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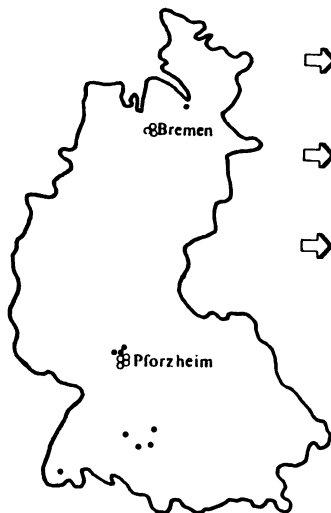
PAGE: 2

Introduction

The Herbert Seitz Company is ...

- ⇒ A REALTIME DATAPROCESSING SERVICE BUREAU
- ⇒ AND SOFTWAREHOUSE
- ⇒ AND HEWLETT PACKARD OEM

with (1981) ...



Location of:

- own Computers
- Associated Companies

- ⇒ 7 OWN HP 3000 (SERIES III AND 44) IN OUR BREMEN AND PFORZHEIM BRANCH
- ⇒ AND 10 HP 3000 SERIES III IN ASSOCIATED COMPANIES
- ⇒ WITH APPROX. 350 TERMINALS SPREAD OVER GERMANY CONNECTED VIA HARDWIRED LEASED LINES/DIALED LINES

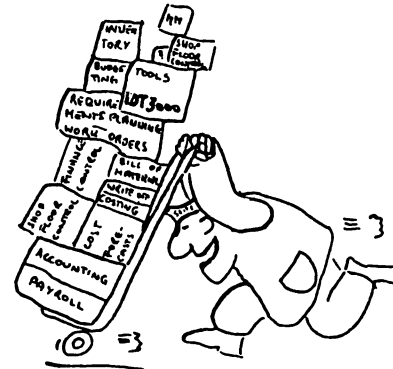
IDT

RECHENZENTRUM HERBERT SEITZ KG

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Introduction 2

WE PROVIDE OUR SERVICES IN GERMANY AND FRANCE FOR COMMERCIAL APPLICATIONS LIKE ...



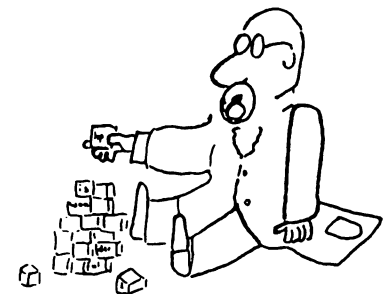
- ⇒ ACCOUNTING
- ⇒ PAYROLL
- ⇒ MATERIAL MANAGEMENT
- ⇒ SHOP FLOOR CONTROL, CAPACITY PLANNING
- ⇒ TOOLS FOR HP 3000 OPERATION, SOFTWARE-DESIGN AND DOCUMENTATION

OUR USERS ARE ...

- ⇒ WORKMEN
- ⇒ DATA TYPISTS, CLERKS
- ⇒ MANAGERS

ONLY A FEW OF THEM ...

- ⇒ ARE SPEAKING (HP-)ENGLISH
- ⇒ HAVE DP EXPERIENCE
- ⇒ HAVE SEEN ANY TERMINAL BEFORE



IDT

RECHENZENTRUM HERBERT SEITZ KG

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Introduction 3

THIS PRESENTATION IS A GENERAL DESCRIPTION OF SOME TECHNIQUES OF INTEGRATED DATA- AND TEXTPROCESSING ON HP3000 COMPUTERS AS THEY ARE IMPLEMENTED IN IDT3000. THIS IS NOT A COMPLETE PRODUCT OVERVIEW.

IDT3000 IS A DATA- AND TEXTPROCESSING SOFTWARE PACKAGE DESIGNED BY HERBERT SEITZ KG WITH:

- AN IMAGE TEXTDATABASE AND DICTIONARY
- POWERFUL TEXTEDITING AND FORMATTING FEATURES FOR BUSINESS LETTERS AND REPORTS
- FILE ACCESS TO IMAGE-, KSAM- AND MPE-FILES
- A SELF LEARNING DICTIONARY AND AN ON-LINE CORRECTION AID
- MULTILINGUAL SCREENS, MESSAGES AND HYPHENATION ALGORITHMS
- A CUSTOMIZER FOR CHARACTER SETS, TERMINAL- AND PRINTERTYPES, DATAFILES, DATADEFINITIONS AND OPERATING ENVIRONMENTS
- INTERFACES TO DATAPROCESSING AND DATACOMMUNICATION
- A DAILY REPORT OF THE OUTGOING LETTERS AND REPORTS
- A TRACKING MECHANISM FOR RENEWED SUBMISSIONS
- A BATCH PROCESSING INTERFACE

CORRECTION AID / DICTIONARY (1)

GENERAL CONSIDERATIONS:

- THE USE OF A DICTIONARY MAKES ONLY SENSE IF THE VOCABULARY IS SUFFICIENT
- A VOCABULARY OF APPROXIMATELY 150.000 WORDS IS A REASONABLE COMPROMISE (VOCABULARY, DISC SPACE AND ACCESS TIME)
- A STATISTICAL EVALUATION OF THE VOCABULARY DURING THE SELECTION-PROCESS IS ADVISABLE
- THE GENERAL RULE OF THUMB FOR DATABASE CAPACITIES SHOULD BE KEPT IN MIND IN ORDER TO GAIN REASONABLE RESPONSE TIME (I.E. CHECKING OF 100 WORDS IN 2 - 3 SECS.)
- UNTIL THERE ARE BETTER ALGORITHMS AVAILABLE FOR PARSING, INTERPRETING AND UNDERSTANDING TEXT IN HIS CONTEXT IT IS NECESSARY TO MAKE THE DICTIONARY

⇒ USER ACCESSIBLE

AND

⇒ SELF LEARNING

SEE NEXT PAGES ...

IDT	CORRECTION AID / DICTIONARY (3)	
	Form 2 Maintenance correction aid/ hyphenation exceptions IDT 3009 ☐ (1) Vocabulary into correction aid from 'text name' (A) (2) Only from section: (B) (3) Print correction aid totally (4) Print hyphenation exceptions totally (5) Vocabulary from MPE-file _____ (C) into correction aid (6) Vocabulary from MPE-file _____ into hyphenation exceptions file (7) Copy correction aid into MPE-file (D) (8) Copy hyphenation exceptions into MPE-file Please enter required activity and press ENTER !	
	RECHENZENTRUM HERBERT SEITZ KG	
PAGE: 8	NEW VOCABULARY MAY BE ENTERED FROM THE TEXTDATABASE (A) OR ONLY SOME SECTIONS (B) OR MPE-FILES (C). IF THE TEXT IS CAREFULLY CHECKED IN THE FIRST PERIOD OF USE THE DICTIONARY WILL BECOME MORE AND MORE SUFFICIENT FOR THE SPECIFIC APPLICATION. THE DICTIONARY MAY BE RESTORED TO MPE FILES (D) FOR BACKUP PURPOSES OR STATISTICAL EVALUATIONS.	

IDT	CORRECTION AID / DICTIONARY (2)	
	Form 4 Maintenance correction aid word : (A) userfriendliness ☐ (X) Copy display to printer Please enter new word for Your dictionary !	
	RECHENZENTRUM HERBERT SEITZ KG	
PAGE: 7	THE USER MAY ENTER OR UPDATE DICTIONARY ENTRIES WHENEVER NECESSARY (A).	

IDT	CORRECTION AID / DICTIONARY (5)
RECHENZENTRUM HERBERT SEITZ KG	Form 3 Maintenance of hyphenation-exceptions IDT 3000 A Word : <u>ABBREVIATION</u> Hyphenation at : <u> * *</u> (^) Normal hyphenation after this column (K) for ck to k-k hyphenation (special feature for german) (V) for consonant duplication (special feature for german) existing definitions will be displayed ☐ (X) Copy screen to lineprinter Please mark where You want a hyphenation
PAGE: 10	THE USER MAY ENTER OR ALTER EXCEPTIONS FOR THE HYPHENATION ALGORITHM A WHEN NECESSARY. IN THIS WAY THE STANDARD PRECISION OF APPROX. 95% MAY BE INCREASED >99% FOR A SPECIFIC APPLICATION WITH ITS TYPICAL SET OF VOCABULARY AND SIZES OF THE FORMATTED TEXT.

IDT	CORRECTION AID / DICTIONARY (4)
RECHENZENTRUM HERBERT SEITZ KG	Form 43 Text maintenance IDT 3000 Text name <u>CORRDEMO</u> Section <u>A1</u> Password <u> </u> Text-File B (1) text entry A (2) print on printer ☐ A (3) renumber X (X) Correction aid (4) insert at (5) modify from (6) display from line <u> </u> (7) delete all, or from line <u> </u> to <u> </u> (8) duplicate line <u> </u> / <u> </u> to <u> </u> (9) search pattern <u> </u> from <u> </u> (0) copy <u> </u> / <u> </u> to <u> </u> C *Start* This is an <u>example</u> of the IDT3000 "self learning" dictionary. The words not <u>contained</u> in the <u>Dictionary</u> are displayed in inverse video and the user is asked to check this words. D Please check your text and correct errors !
PAGE: 9	THE CORRECTION AID CAN BE ENABLED THROUGH THE USER A AND WORKS DURING TEXTENTRY OR UPDATE B. UNKNOWN (NOT NECESSARY WRONG) WORDS ARE MARKED C AND THE USER IS PROMPTED FOR RECHECKING AND CORRECTING D.

IDT	CORRECTION AID / DICTIONARY (6) Form 6 Pattern Maintenance IDT 3000 <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: right; vertical-align: top;">No.</td> <td style="width: 10%; text-align: right; vertical-align: top;">Pattern</td> <td style="width: 80%;"></td> </tr> <tr> <td style="vertical-align: top;">300</td> <td style="vertical-align: top;"></td> <td style="vertical-align: top;"> (A) (B) 5(IDT 3000 the integrated Data- and Textprocessing Software\$) </td> </tr> </table> Existing patterns will be displayed ! ☐ (X) Copy screen to lineprinter Please enter or modify pattern!	No.	Pattern		300		(A) (B) 5(IDT 3000 the integrated Data- and Textprocessing Software\$)
No.	Pattern						
300		(A) (B) 5(IDT 3000 the integrated Data- and Textprocessing Software\$)					
RECHENZENTRUM HERBERT SEITZ KG							
PAGE: 11							

COMPLEX TEXT EXPRESSIONS MAY BE DEFINED AS TEXT PATTERNS (A), IF NECESSARY WITH TEXT FORMATTING COMMANDS (B). PATTERNS ARE CALLED WITH THE COMMAND &nnn (nnn = PATTERN NO.),

IDT	FILE ACCESS (1) THE INTEGRATION OF DATA- AND TEXTPROCESSING REQUIRES: - COMFORTABLE ACCESS TO DIFFERENT FILE TYPES (IMAGE, KSAM, MPE) - USER ACCESS TO ALL FILES WITH READ ACCESS - UNLIMITED USER ACCESS TO THE CONFIGURATION OF THE OPERATING ENVIRONMENT - EASY MODIFICATION OF DATA FORMATS AFTER LAYOUTCHANGES - DATA ACCESS VIA DATA DICTIONARIES SEE EXAMPLES NEXT PAGES ...
RECHENZENTRUM HERBERT SEITZ KG	
PAGE: 12	

IDT	FILE ACCESS (3)										
RECHENZENTRUM HERBERT SEITZ KG	Form 5 Customizing data access (address-file and master-file 2) IDT 3000 A (A) Customizing address-file (B) Customizing master-file 2 In this form You may customize Your Address- file You will have to describe each field (1 - 50). Existing descriptions will be shown. <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Field No.</th> <th style="text-align: left;">Fieldname (B)</th> <th style="text-align: left;">Start Data (1)</th> <th style="text-align: left;">Size (2)</th> <th style="text-align: left;">Format (3) (F)</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>(A) Name</td> <td>DT9</td> <td>28</td> <td></td> </tr> </tbody> </table> (1) P4-P12 packed numeric item (C) (D) (3) 'X' place for 1 alphanumeric character C2-C10 binary coded numeric item 'Z' suppress zeros F alpha-numeric item (2) Size : the last digit must be an 'X' for a sign character! (X) Copy screen to lineprinter Please enter fieldformat!	Field No.	Fieldname (B)	Start Data (1)	Size (2)	Format (3) (F)	12	(A) Name	DT9	28	
Field No.	Fieldname (B)	Start Data (1)	Size (2)	Format (3) (F)							
12	(A) Name	DT9	28								
PAGE: 14	UP TO 100 FIELDS PER USER AND/OR SESSION CAN BE CONFIGURED (A). THE NAME (B), POSITION (C), DATA TYPE (D), SIZE (E) AND OPTIONAL EDIT MASKS (F) CAN BE DEFINED AND MODIFIED WHEN NECESSARY.										

IDT	FILE ACCESS (2)
RECHENZENTRUM HERBERT SEITZ KG	Form 2 File Configuration IDT 3000 Specification of Address-File: Filename KOSTAM Filetype (1) IMAGE-DB ADRSTA Password MGR Searchitem ADRNR (Detail Dataset) (A) (2) KSAM-File (Access via Primary-Key) (3) MPE-File (sequential, only for Serial Letters) (4) Address-File not used Specification of the Order File : Filename ISTTD Filetype (1) IMAGE-DB PRODO1 Password MGR Searchitem IDTNR (Detail Dataset) (B) (2) KSAM-File (Access via Primary-Key) (4) Second Master-File not used (X) Copy screen to lineprinter Please enter data and press -ENTER-
PAGE: 13	THE USER MAY DEFINE OR CHANGE FILENAME AND TYPE FOR AN ADDRESSFILE (A) AND ANOTHER USER SELECTABLE FILE (B).

IDT	FILEACCESS (5)
RECHENZENTRUM HERBERT SEITZ KG	Form 4 Businessletters IDT 3000 Text name Section Password ☐ (1) From unformatted text or (2) formatted file to printer No. ☐ ☐ (!) A letter to addressee: (B) ☐ (2) without accessing the address-file (A) (3) A letter to all addresses of the address-file ☐ (4) Only selected addresses with field field ☐ (X) Using letterhead: _____ dated for renewed submission : _____ ☐ (X) With data of Order - Master-file of (C) ☐ (X) Margin alignment _____ Column (only printer 2601) Your sign _____ Your letter _____ Our sign _____ Date _____ Please enter the required processing/selection options and press -ENTER- !
PAGE: 16	THE FILEACCESS (AND THE DATA SELECTION) CAN BE DONE DURING THE PRINTING / SELECTING OF BUSINESS LETTERS (A). DATA MAY BE SELECTED AND INSERTED FROM THE ADDRESSFILE (B) AS WELL AS FROM THE MASTER FILE 2 (C).

IDT	FILEACCESS (4)
RECHENZENTRUM HERBERT SEITZ KG	Form 2 Formatting the text IDT 3000 Text: name demober Section A1 Password ☐ (1) Formatting text (text file -> formatted text file) Columns 55 ☐ (2) Print formatted text on printer No. ☐ (A) (3) Insert addressee of (B) ☒ (X) Insert addressee of 1000003 ☒ (X) Add from master-file2 Orders (C) from 935-001/21C ☒ (X) Blockformat required Please enter the required options and press -ENTER- !
PAGE: 15	THE FILEACCESS (AND THE DATA SELECTION) CAN BE DONE DURING THE TEXT FORMATTING (A). DATA MAY BE SELECTED AND INSERTED FROM THE ADDRESSFILE (B) AS WELL AS FROM THE MASTER FILE 2 (C).

DATA SELECTION (2)			
Form 4	Businessletters	IDT 3000	
Text name	DEMOBERU	Section	A1 Password
☒ (1) From unformatted text or (2) formatted file to printer No. ☒			
☒ (1) A letter to addressee: 1000008 ☒			
☐ (2) without accessing the address-file			
☒ (3) A letter to all addresses of the address-file			
☒ (4) Only selected addresses with field ☐ field ☐			
☒ (X) Using letterhead: std1 dated for renewed submission: 020381			
☒ (X) With data of Order - Master-file of 935-001/210 ☒			
☐ (X) Margin alignment Column (only printer 2601)			
Your sign	Your letter	Our sign	Date
			5. 8. 1981
Please enter the required processing/selection options and press -ENTER- !			

DATA SELECTION (1)	THE SELECTION OF DATA OUT OF THE ABOVE MENTIONED DATA FILES CAN BE DONE IN THE FOLLOWING WAYS: - THROUGH LOGICAL COMPARE COMMANDS DURING THE BUSINESS LETTER PRINTING (SELECTED LETTERS) - THROUGH DATA(BASE) INQUIRY LANGUAGES AND/OR REPORT GENERATORS (QUERY, REPORT3000, ASK, QUIZ, QUICK, GENEASYS ETC.) PROVIDING THE SELECTED DATA IN A IDT3000 BATCH INTERFACE FILE - THROUGH BATCH- OR SESSION MODE APPLICATION PROGRAMS PROVIDING THE SELECTED DATA IN AN IDT3000 BATCH INTERFACE FILE SEE EXAMPLES NEXT PAGES ...
IDT	RECHENZENTRUM HERBERT SEITZ KG
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IDT	CUSTOMIZER (1)																															
	Form 1 Customizer for Hardwareconfiguration IDT 3000 (B) Char.Set : (1) ASCII/UK (2) Deutsch(ISO) (3) Francais (4) Espanol (C) Language : (1) English (2) Deutsch (3) Francais (4) Espanol ☒ (X) Auditfile used. (E) addressee in field No. ☒ (D) ☒ (X) Database for Hyphenation-Exceptions used ☒ (X) Correction-Aid used <table border="0"> <tr> <th>Printer</th> <th>Type</th> <th>Device-Class</th> <th>Printer</th> <th>Type</th> <th>Device-Class</th> </tr> <tr> <td>1</td> <td></td> <td>P2601 (A)</td> <td>2</td> <td></td> <td>LP</td> </tr> <tr> <td>3</td> <td></td> <td></td> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td>6</td> <td></td> <td>LP2601</td> </tr> <tr> <td>7</td> <td></td> <td>34</td> <td>8</td> <td></td> <td>35</td> </tr> </table> (A) Terminal-Printer (B) Lineprinter 2513/2617/2619 (C) Matrixprinter 2608/2631 as Hardcopy (D) as Device (E) Daisywheelprinter 2601 as Hardcopy (F) as Device (H) Olympia ESW100RD as Hardcopy (G) Laserprinter 2680 ☐ (X) Copy screen to lineprinter Please enter data and press -ENTER-		Printer	Type	Device-Class	Printer	Type	Device-Class	1		P2601 (A)	2		LP	3			4			5			6		LP2601	7		34	8		35
	Printer	Type	Device-Class	Printer	Type	Device-Class																										
1		P2601 (A)	2		LP																											
3			4																													
5			6		LP2601																											
7		34	8		35																											
RECHENZENTRUM HERBERT SEITZ KG																																

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THE INTEGRATION OF DATA- AND TEXTPROCESSING REQUIRES THE OPTION OF TEXTPROCESSING WITHIN THE EXISTING DATAPROCESSING (HARDWARE-)ENVIRONMENT (A) INCLUDING CHARACTER SETS (B), LANGUAGES (C), DATA LAYOUTS (D) AND THE PROCESSING ENVIRONMENT (E) + (F).

IDT	DATA SELECTION (3)	
	Form 183 Text maintenance IDT 3000 Text name DEMOBER Section 82 Password Text-File ☒ (1) text entry (4) Insert at (2) print on (5) modify from printer (6) display from line ☐ (7) delete all, or from line ____ to (3) renumber (8) duplicate line ____ to (9) search pattern ____ from (X) Korrektur (0) copy ____ to 11 21 31 41 51 61 71 -Start- (A) This is an example of IDT300's datainsertion feature. Dear Mr. &A12. Thank You for Your letter and Your interest in our new &B31. The price of &B35 is very attractive. Our local representative Mr. &D\$ALESMAN will contact You within the next few days and provide further information for You. Sincerely Yours \$R\$R&Vsigner\$R&Vtitle (B)	
	RECHENZENTRUM HERBERT SEITZ KG	

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DATA ELEMENTS CAN BE DEFINED BY IDT3000 INTERNAL FIELD NUMBERS (A) (REFERRING TO THE CUSTOMIZED FILE-ENVIRONMENT) OR BY DATA ELEMENT NAMES OF A DATA DICTIONARY (B) (DICTIONARY 3000).

INTERFACES

INTEGRATED DATA- AND TEXTPROCESSING REQUIRES SEVERAL INTERFACES BETWEEN THE TEXTPROCESSING AND

- THE COMPUTER FILES (MPE, KSAM, IMAGE)
- DATA DEFINITIONS (TRADITIONAL FILE LAYOUTS, DATA BASE SCHEMAS, DATA DICTIONARIES)
- THE BATCH PROCESSING
- DATA SELECTIONS OUT OF QUERY, ASK, REPORT, APPLICATION PROGRAMS ETC.
- VARIOUS TYPES OF PRINTING HARDWARE (FROM TYPEWRITER TO LASER PRINTER)
- DATA EXCHANGE AND DATA COMMUNICATION (MAGNETIC TAPES, MICROFICHES, POINT TO POINT DATA COMMUNICATION, MULTIPPOINT DATA-COMMUNICATION, COMPUTER-COMPUTER COMMUNICATION, ELECTRONIC MAIL ...)

IDT

RECHENZENTRUM HERBERT SEITZ KG

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SUPERVISOR

Form Daily Report/Renewed submission IDT 3000

- ☐ (1) Print daily report (A) Printer No. ☐
- (2) daily report only for business letters
- (3) check list for renewed submission (B)

- ☐ (A) Totally
- (B) Date of beginning (C)
- (C) From this date up to

Sort item

- 1st ☐ (A) Print date (D) Text name
- 2nd ☐ (B) Date of renewed submission (E) Addressee
- 3rd ☐ (C) User
- 4th ☐ (D)

Optional only 'text name'

only user

Comment :

THE SUPERVISOR FEATURE ALLOWS SOME KIND OF PROCESSING FUNCTIONS LIKE DAILY REPORTS OF OUTGOING LETTERS AND REPORTS (A) OR RECORDS OF RENEWED SUBMISSIONS, THAT ARE DUE FOR NEW ACTIONS (B). BOTH REPORTS MAY BE TOTAL OR A PARTIAL SELECTION (C) WITH DIFFERENT SORT CRITERIA (D).

IDT

RECHENZENTRUM HERBERT SEITZ KG

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