

DISTURBANCE REGISTRATION FACILITY

D R F L V L 2 . 3

END USER / OPERATIONS MANUAL

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PREFACE

This is the first end user documentation of DRF. Oct 1984.

Reader's comment can be sent to address :

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This document was printed by DCF on a XEROX 9700 printer.

This manual describes the online part of DRF for END users.

This manual contains the following chapters:

"Chapter 1. Introduction" describes general information about DRF.

"Chapter 2. Operation information" explains how to use DRF in an online environment.

"Chapter 3. Messages and codes".



CONTENTS

1.0	CHAPTER 1. INTRODUCTION.	1
1.1	TERMINOLOGY	1
2.0	CHAPTER 2. DRF/ONLINE REGISTRATION.	3
2.1	Introduction.	3
2.1.1	DRF/online PFK usage.	4
2.1.2	DRF/online sign on.	5
2.1.3	DRF/online new user map.	6
2.1.4	DRF/online primary map.	7
2.1.5	DRF/online history dataset.	8
2.1.6	DRF/online ADD map.	9
2.1.7	DRF/online ADD daughter record.	13
2.1.8	DRF/online delete.	15
2.1.9	DRF/online update mother record.	16
2.1.10	DRF/online update daughter record.	18
2.1.11	DRF/online utility functions.	20
2.1.11.1	Utility commands.	22
2.1.11.2	Utility PFK selection.	22
2.1.11.3	Utility record selection.	23
2.1.11.4	Mother or daughter Browse.	27
2.1.11.5	Print records.	28
2.1.11.6	Find records.	30
2.1.12	DRF Editor.	31
2.1.12.1	Edit commands	32
2.1.12.2	Edit line commands.	32
2.1.12.3	DRF extra text.	34
2.1.12.4	DRF batch execution.	34
2.1.12.5	DRF editor.	34
2.1.13	DRF submit batch job.	35
2.1.14	DRF status function.	36
2.1.15	DRF availability function.	37
2.1.16	DRF tutorial function.	38
2.1.17	DRF change JCL for IEBGENER print.	43
2.1.18	DRF LOG.	44
3.0	CHAPTER 3. Messages and codes.	45

LIST OF ILLUSTRATIONS

Figure 1.	DRF sign on.	5
Figure 2.	DRF new user map.	6
Figure 3.	DRF primary menu.	7
Figure 4.	DRF history dataset.	8
Figure 5.	DRF/online ADD map.	10
Figure 6.	DRF/online ADD sample example.	12
Figure 7.	DRF mother update first map.	16
Figure 8.	DRF update mother map.	17
Figure 9.	DRF update daughter map.	19
Figure 10.	DRF utility map.	20
Figure 11.	Browse mother record.	27
Figure 12.	DRF text map.	32
Figure 13.	DRF batch map.	35
Figure 14.	DRF batch map.	36
Figure 15.	DRF availability map.	37
Figure 16.	DRF/TFS tutorial format.	42
Figure 17.	DRF jobcard map.	43
Figure 18.	DRF log example.	44

1.0 CHAPTER 1. INTRODUCTION.

Disturbance Registration Facility (DRF) was written in January-mars 1980 as a result of management project two at SKF-data Service Gothenburg.

It was modified for VOLVO-DATA use in august-october 1984.

The two programmers was :

Berth-Åke Johansson	Batch programs	tel 031/507503
Jan Thulin	Online programs	tel 031/507503

Any comments or questions are welcome.

DRF was updated 1981 for release 2.1, and 1983 for release 2.2. Current release level of DRF is 2.3 (version 2, release 3). DRF lvl 2.3 is the VOLVO-data version of DRF.

DRF is an aid for registration of disturbances in a data processing environment. The registration is done online under CICS/VS. In addition to the registration there is a report facility. The report facility is executed as a batch job, and it produces one or more report listings.

The purpose of DRF is to register all disturbances. E.g. register monitor abends, operating system failure, hardware errors, application program errors or other software errors. The registration disturbances or failures provides an analysis of the failing component and as a result of this monitor and operating system downtime is hopefully decreased.

1.1 TERMINOLOGY

The following terms are used throughout the manual. The user should be familiar with the definitions before execution.

System - Defines a hardware, software, or other system in a data central. This system could be: IMS, CICS, VTAM, MVS for software, or e.g : TAPE, DISK, for hardware. The maximum length for the SYSTEM is 4 characters. All systems must be defined in DRFTOD table before online registration.

Type - Defines the type of error. This is a 3 character ID. The default settings are:

CSW - Central software. E.g 'SYSTEM' VTAM, MVS problems.

CHW - Central hardware. E.g 'SYSTEM' TAPE, DISK problems.

Unit - Defines the unit address. Mostly used in hardware errors. E.g. tape station or disk station unit address.

Vendor - Defines the system vendor. Maximum 3 characters.

Responsible persons - Defines the persons that are responsible for this error. This is normally two persons, one for the computer central and one for the vendor for the system.

Status - Defines the reports status. E.g. the report could be OPEN, CLOS (closed).

System administrator - Defines the person who is responsible for DRF in this installation.

Your adminstator is :.....
telephon is :.....
address is :.....

Note: In DRF online environment you can see the administrators name under HELP/TUTORIAL 'TABLE OF CONTENTS' select option 'G' and then option 'O' under 'GENERAL INFORMATION'.

2.0 CHAPTER 2. DRF/ONLINE REGISTRATION.2.1 INTRODUCTION.

To start DRF online session enter 'SR' or 'CICSVD3' from your VTAM terminal.

From SESAM you could enter function 'ADRF'.

From NCCF enter 'CICS VD3'.

NOTE: Before DRF could be entered a valid userid and password must have been registered. The user registration is done by:

	Nils Rudhag	tel 507487	MEMO: 217ONR
or	Jan Thulin	tel 507503	MEMO: 251OJT
or	Beth-Åke Johansson	tel 5076xx	MEMO: BÅJ
			MEMO: DRF

The following features are supported under DRF LVL 2.3.

- | | | | |
|-----|--------------|---------------------------------------|---|
| 0. | Sign on/off | Sign on with userid and passw. | Figure 1 on page 5 |
| 1. | Primary | Selection menu. | Figure 3 on page 7 |
| 2. | History | Use of history dataset. | Figure 4 on page 8 |
| 3. | Add | Mother or
daughter records. | Figure 5 on page 10
Figure 7 on page 14 |
| 4. | Delete | Mother or daughter records. | Figure 7 on page 15 |
| 5. | Update | Mother or daughter records. | Figure 8 on page 17 |
| 6. | Utility | Add, brw, del, upd,
print or find. | Figure 10 on page 20
-- Figure id 'lpr' unknown -- |
| 7. | Browse | Mother or daughter records. | Figure 11 on page 27 |
| 8. | Editor | Edit extra text, batch, member | Figure 12 on page 32 |
| 9. | Submit | Batch and print job. | Figure 13 on page 35 |
| 10. | Status | Give register status. | Figure 14 on page 36 |
| 11. | Availability | System statistics. | Figure 15 on page 37 |
| 12. | Tutorial | DRF tutorial/Help information | Figure 16 on page 42 |
| 13. | Change | Jcl cards, print and batch. | Figure 17 on page 43 |
| 14. | Log | Write DRF/session log. | Figure 18 on page 44 |

2.1.1 DRF/online PFK usage.

You may use the following program function PFK keys while using DRF :

- HELP - To get HELP on how to use the DRF.
- END - To END current function and return to previous map.
- PRINT - To print current screen to printer or to DRF print dataset.
- UP - To display previous page used by UTILITY, and DRF editor.
- DOWN - To display next page used by UTILITY, and DRF editor.
- LEFT - To move display to left, used by UTILITY, STATUS and DRF editor.
- RIGHT - To move display to right, used by UTILITY, STATUS and DRF editor.

ADD/UPD DR - Add or update a daughter record.
Under ADD/UPDATE Mother panel.

PR-REP - Print report to local printer.
Under ADD/UPDATE Mother panel.

PROFILE - To display or update your profile

DEFAULT ARRANGMENT
FOR PF KEY PAD

```

+-----+-----+-----+
I  HELP  I  ADD/DR I  END    I
I  PF1 OR I  PF2 OR I  PF3 OR I
I  PF13  I  PF14  I  PF15  I
+-----+-----+-----+
I  PRINT I  PR-REP I  CLEAR I
I  PF4 OR PF5 OR I  PF6 OR I
I  PF16  I  PF17  I  PF18  I
+-----+-----+-----+
I  UP    I  DOWN  I  PROFILEI
I  PF7 OR I  PF8 OR I  PF9 OR I
I  PF19  I  PF20  I  PF21  I
+-----+-----+-----+
I  LEFT  I  RIGHT I  END    I
I  PF10 OR I  PF11 OR I  PF3 OR I
I  PF22  I  PF23  I  PF24  I
+-----+-----+-----+
    
```

2.1.2 DRF/online sign on.

```

*****
*           -----
*           ~   WELCOME TO CICS/VS VOLVO-DATA   ~
*           -----
*
* Välkommen till VOLVO-DATAS          Welcome to the VOLVO-DATA
* Störnings-rapporterings system (DRF). Disturbance Registration Facility
*
* Om du inte har något USER-id så kan If you don't have any USERid, then you
* du använda userid : DRFUSER.        could use USERID: DRFUSER.
* DRFUSER är ett allmänt ID som kan   DRFUSER is a general ID and could be
* användas av alla. Med detta ID kan  used by anyone. With this ID you could
* du bara addera störningar.          only add disturbances.
*
* För USERID eller om du har någon   For USERID or if you have any other
* annan fråga om DRF skriv till:      question about DRF write to:
* MEMOid: DRF                          MEMOid: DRF
*
*      ENTER PERSONAL DETAILS BELOW ;
*      ENTER USERID   --->_.....
*      ENTER PASSWORD ---> .....
*      NEW PASSWORD   ---> .....
*      ENTER ACCOUNT  ---> .....
*
* PFKS :   1/13 HELP   12/24 EXIT CICS
*****

```

Figure 1. DRF sign on.

DRF user must enter userid and password before any further execution of DRF is possible. Enter userid in (1) and password in (2). The name and password are received from the DRF administrator.

Userid and passwords are added in VLM (the Volvo-data logon mössa).

To sign off select option 'X' or press PFK 3/15 or PFK 12/24 in DRF primary option menu.

NOTE: If you enter the 'DRFUSER' userid no password is needed.

2.1.3 DRF/online new user map.

DRF new map is only the first time a user logons to the DRF system.

```

*****
* ----- NEW USER ----- DRF / LVL 2.3 -----*
* I                                     841015/13:10 I*
* I                                     I*
* I Disturbance Registration Facility I*
* I ***** I*
* I * WELCOME TO DRF * I*
* I * * * * * I*
* I * Jan Thulin User-id: G085004 * I*
* I ***** I*
* -----*
* I see that you are a new DRF user and I will just give you some information *
* about DRF LVL 2.3 . Common PFK keys in DRF are: *
* * * * *
* PF1 - Help information PF2 - Add daughter PF3 - Return to prev. panel.*
* PF4 - Print screen. PF5 - Print report PF6 - Clear fields in ADD *
* PF7 - Page backward PF8 - Page forward PF9 - User profile *
* PF10 - Page left. PF11 - Page right. PF12 - Return from CICS/DRF *
* * * * *
* If any questions should occur contact: *
* JAN THULIN MEMOID: 2510JT Tel 031/507503 *
* or BERTH-ÅKE JOHANSSON MEMOID: BÅJ Tel 031/507641 *
* or Write to MEMOID: DRF *
* * * * *
* ----- Press ENTER to continue to DRF primary panel -----*
*****

```

Figure 2. DRF new user map.

2.1.4 DRF/online primary map.

DRF primary map is established after successful sign on.

```

*****
* ----- D R F / PRIMARY OPTION MENU ----- DRF / LVL 2.3 ----*
*                                     841015/11:42      *
*
*      SELECT OPTION  ==>_.                TERMID   - X002      *
*                                     NODE      - PTVD1221   *
*                                     USERID   - G085004     *
*      0 - ADD          Record, Mother or Daughter   DAY      - MONDAY   *
*      1 - DELETE      Record, Mother or Daughter   *
*      2 - UPDATE      Record, Mother or Daughter   *
*      3 - UTILITY     Add Browse, Delete, Find, Print or Update records *
*      4 - BATCH       Submit job for batch listings *
*      5 - STATUS      On DRF-Registers and TOD-table *
*      6 - AVAILABILITY System availability          *
*      7 - TUTORIAL   Display information about DRF  *
*      C - EXIT TO CICS Terminate DRF and return to CICS *
*      X - EXIT       Terminate DRF and exit from CICS *
*
*
*
*      HISTORY DS      ==> 0
*
*      DRF152I Welcome to DRF Jan Thulin
*-- PF1 HELP -- PF3 RETURN -- PF4 PRINT SCREEN -- PF9 PROFILE -- PF12 EXIT DRF --*
*****

```

Figure 3. DRF primary menu.

Note :

1. 'TERMID' is the CICS terminal identification.
2. 'USERID' as defined in VLM.
To get a user-id, contact your system programmer.
3. SELECT OPTION 0-7 could be selected, but security restrictions could have been set.
4. Default history dataset is DRFJOMRO and DRFJODRO.
5. To exit DRF press PFK 3 or enter select option 'X'.
6. Enter PFK1/13 for help.

Note :

History DS '0' is current year.	(1984)
History DS '1' is current -1.	(1983)
History DS '2' is current -2.	(1982)
History DS '3' is current -3 and older	(1981)

2.1.6 DRF/online ADD map.

ADD could be entered in two ways.

1. By 'SELECT OPTION' = '0' in primary map. When you enter 'ADD' function for the first time you will get a 'clean' ADD map without any fields filled in. The fields you enter the first time will be saved during the DRF session.
2. By 'A' in front of number in utility map. This means that you will get a 'ready' ADD map with all fields filled in. In this case just change report number to the new one.

Enter '0' in primary map and press enter.

```
*****
* ----- D R F / PRIMARY OPTION MENU ----- DRF / LVL 2.3 ----*
*                                     841015/11:42 *
*
*   SELECT OPTION  ===>_0
*
*   0 - ADD      Record, Mother or Daughter
*   1 - DELETE   Record, Mother or Daughter
*
*   TERMID - X002
*   NODE   - PTVD1221
*   USERID - G085004
*   DAY    - MONDAY
*****
```

OR

Enter '3' in primary map and press enter.

Enter 'A' in utility map and press enter.

```
*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT  ===>_
* Enter start selection num ===> ..... Page 00001 *
*   Resp. department ===> ..... A - Add record *
*   Resp. user      ===> .... Report.d ===> ..... B - Browse record *
*   Status          ===> .... Type    ===> ... D - Delete record *
*   System          ===> ..... S/U Update record *
*   Priority        ===> ..... P - Print record *
*   Start-date     ===> ..... End-date ===> ..... T - Add extra text*
*
* -----*
* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
Enter *         NR          DATE TIME MIN.          USER/DEPART. *
'A' ===> * A 004110      CSW OTHR 830317 1514      25 840924 CLOS 03 V-D /2520 *
```

```

*****
* ----- D R F / A D D MOTHER RECORD ----- DRF / LVL2.3 -----*
*                                     841015/11:43 *
* DRF-Report number      <R>: 0          '0' ==> System will give SR-number *
* Reporters name        : Jan Thulin          Dept : 2510      V-D *
*                                     Added/Upd by : G085004 / *
* Disturbance date      <R>: _.....      Time      <R>: .... *
* Bypass -Date          : .....           Time      : .... *
* Received/accepted -date : .....         Solved -Date : ..... *
*                                     Should be solv: ..... *
* Hard, Soft, Else-ware <R>: .           Host      : .... *
* Type                  : ...             System    <R>: .... *
* Unit                  : .....           Vendor    : ... *
* Repair - time         : .....           Planed interr.: . *
* Priority               <R>: 06           Status    : INIT Date : *
* PSC Number            : .....           PSC Note   : ..... *
*                                     Related MR-NR : ..... *
* Responsible user      : .....           Resp. dept  : ..... *
* Other notes           : ..... *
* Disturbance text      <R>: ..... *
*                                     : ..... *
* Solution description  : ..... *
* Extra text 'Y' OR 'N' : N              Sum DR-Records: *
*
*PF1 HELP PF2 ADD DREC PF3 RETURN PF4 PR/SCR PF5 PR/REP PF6 CLEAR PF9 PROF *
*****

```

Figure 5. DRF/online ADD map.

Note : '<R>' Indicates that this field is required to be filled in. A report record could not be added unless these fields are filled in.

'DRF-REPORT NUMBER <R>' An unique number for each report. '0' means that DRF will support the number.

'REPORTERS NAME' Is taken from the your profile.

'USER' Is taken from your profile.

'DEPT' Is taken from your profile.

'ADD BY' and 'UPD BY' This fields are updated by DRF when this record is added/updated.

'DISTURBANCE DATE' and 'TIME <R>' The date and time when the disturbance occurred.

'BYPASS-DATE' and 'TIME' Is the date and time when the system was working again. If not entered date/time will be taken from disturbance date/time. The disturbance date and the bypass date is used in the availability program to compute availability for a system.

- 'RECEIVED/ACCEPTED DATE' Is the date when the responsible user has received this disturbance.
- 'SOLVED DATE' Is the date when the reason for the disturbance is solved. E.g. It could be the date when a PTF has been applied to a system for solving a problem.
- 'SHOULD BE SOLVED' This disturbance should be solved before this date.
- 'HARD, SOFT, ELSE-WARE <R>' Indicates a hardware error, a software error or an error that couldn't be defined as soft- or hardware. Enter 'S' for software, 'H' for hardware, or 'E' for others.
- 'HOST' An one to four character Host (CPU) ID.
- 'TYPE' This indicates the type of the disturbance. This field is an installation defined 3 character id. Default types are 'CSW' and 'CHW'. See chapter 'TERMINOLOGY' in beginning of this documentation.
- 'SYSTEM <R>' This indicates the system ID for this disturbance. This field is an installation defined 4 character id. Contact your system administrator for information about 'SYSTEM' id's. To all systems responsible department and user are assigned.
- 'UNIT' Indicates a hardware unit address. This could be a tape station unit address or a disk drive unit address.
- 'VENDOR' This indicates the vendor ID for above system. This field is an installation defined 3 character id. Contact your system administrator for information about 'VENDOR' id's.
- 'REPAIR - TIME' Indicates the repair time in case of an hardware failure. This field is used for documentation purposes.
- 'PLANED INTERRU.' Stands for planed interrupt. Indicate with a 'Y' for yes or 'N' for no if this disturbance was planed or not. A planed interrupt could e.g be an IPL due to maintenance update.
- 'PRIORITY <R>' Indicates the priority for the disturbance. Priority is an one digit 1-5 indicator. 1 indicates important, 5 less important. All initial reports will have '6' as priority. Priority could only be updated by master operator.
- 'STATUS' Indicates the disturbance status. I.e. OPEN or CLOS (closed). STATUS could only be updated by master operator.
- 'STATUS DATE' This field is updated by DRF when STATUS field is updated.
- 'PSC NUMBER' Indicates the correspondence number to PSC in Stockholm.
- 'PSC NOTE' Indicates the correspondence comment in the PSC case.
- 'RELATED MR-NR' Indicates a related report with this or these numbers. Number is used for documentation purpose.
- 'RESPONSIBLE USER' Defines the user that are responsible. If not entered DRF will support this field.

- 'RESP. DEPT' Defines the department that is responsible for this disturbance. If not entered DRF will support this field.
- 'OTHER NOTES' Any text used for documentation.
- 'DISTURBANCE TEXT <R>' Short text for documentation about this disturbance. Maximum 100 characters. If additional text is need enter 'Y' in field 'EXTRA TEXT'. See DRF EDITOR for more information about this feature.
- 'SOLUTION DESCRIPTION' A short text describing the fix for this disturbance.
- 'EXTRA TEXT 'Y' OR 'N'' Indicates if extra text is supplied for this record. If you need to add extra text enter 'Y' in this field.
- 'SUM DR-RECORDS' Indicates the number of daughter records that exist for this mother record.

The defined systems, types and priorities are installation and user dependent.

```

*****
* ----- D R F / A D D MOTHER RECORD ----- DRF / LVL2.3 -----*
*                               841015/11:45 *
* DRF-Report number      <R>: 009065  'O' ==> System will give SR-number *
* Reporters name        : Allan Sahlin                               Dept : 2130   V-D *
*                               Added/Upd by : G006573 / G006573 *
* Disturbance date      <R>: 830616   Time      <R>: 2100 *
* Bypass -Date          : 830616     Time      : 2250 *
* Received/accepted -date : .....   Solved -Date : 840924 *
*                               Should be solv: ..... *
* Hard, Soft, Else-ware <R>: E      Host      : .... *
* Type                  : CEW        System    <R>: OTHR *
* Unit                  : .....     Vendor    : ... *
* Repair - time         : .....     Planed interr.: . *
* Priority              <R>: 05       Status    : CLOS Date : 840925 *
* PSC Number           : .....     PSC Note  : ..... *
*                               Related MR-NR : ..... *
* Responsible user     : V-D        Resp. dept : 2511 *
* Other notes          : ..... *
* Disturbance text     <R>: prblem m avsliten loggtape för imsv1 *
*                               : ..... *
* Solution description : se instruktion *
* Extra text 'Y' OR 'N' : N          Sum DR-Records: 00 *
*
*PF1 HELP PF2 UPD DREC PF3 RETURN PF4 PR/SCR PF5 PR/REP PF6 CLEAR PF9 PROF *
*****

```

Figure 6. DRF/online ADD sample example.

2.1.7 DRF/online ADD daughter record.

When you have a system that is affected by an other system, a daughter record should be added. This could be done in two ways.

```
*****
* ----- D R F / PRIMARY OPTION MENU ----- DRF / LVL 2.3 ----*
*                                     841015/11:42                *
*                                                                              *
(1) *   SELECT OPTION  ==>_3                                TERMID  - X002          *
*                                                                              *
*                                                                              *
*                                                                              *
(1) *   0 - ADD          Record, Mother or Daughter      DAY      - MONDAY       *
*   1 - DELETE         Record, Mother or Daughter          *
*   2 - UPDATE         Record, Mother or Daughter          *
(2) *   3 - UTILITY     Add Browse, Delete, Find, Print or Update records *
*                                                                              *
```

1. Select option '0' in PRIMARY map. Then you come directly to the ADD map for mother records. Then enter record number in 'DRF-REPORT NUMBER <R>'. See Figure 5 on page 10. After this press PFK 2 or PFK 14.
2. Select option '3' in PRIMARY map. and select option 'A' in UTILITY map. Mother or daughter record number.
If you select option 'A' in UTILITY map for a DR, you will get a copy of an existing record. Change the fields you need to change.
If you select option 'A' in UTILITY map for a MR, you will get the mother record map. See Figure 5 on page 10. Enter the records number and hit PFK2 or PFK14.

The 'DRF-REPORT number' for the daughter record is automatically created by DRF. DRF adds a sequence number to the mother record number.

NOTE: Before any daughter record could be entered a mother record must exist.

```

*****
* ----- DRF / ADD DAUGHTER ----- DRF / LVL 2.3 ----*
*                                                                 *
*                                                                 *
* DRF-Report nr   : 00906501           (Supported by system)   *
* Reporters name  : Jan Thulin         User: V-D   Dept.: 2510  *
*                                                                 *
* Type           <R>:_CEW             Mother system : OTHR     *
* System         <R>: OTHR            Added by      : G085004    *
*                                                                 *
* H/S/E -Ware   <R>: E                Updated by      :         *
* Dist. -date   <R>: 830616           *
*           -time <R>: 2100           *
* Bypass -date  : 830616             *
*           -time : 2250             *
* Host          : ....               *
* Unit          : .....              *
* Vendor        : ... (Requried if hardware) *
* Repair -time  : ....               *
*                                                                 *
* Disturbance text: prblem m avsliten loggtape för imsv1     *
* Extra text suppl: N                                         *
*                                                                 *
* ----- PFK 3 ==> RETURN ----- <R> ==> REQUIRED ENTER ==> ADD -----*
*****

```

The fields in the 'ADD DAUGHTER' map are described in "DRF/online ADD map." on page 9.

2.1.8 DRF/online delete.

The user has two ways to delete DRF records (mother or daughter).

1. Enter '1' in primary map.

and enter MR-number or DR-number in the following map:

```

*****
Enter * ----- D R F / D E L E T E   M A P -----
number *
to del==>* MOTHER   RECORD   NUMBER   ==> 001234
*
to del==>* DAUGHTER RECORD   NUMBER   ==> 00123401

```

or

2. Enter '3' (UTILITY) in primary map.

and

Enter 'D' in front of the number to delete.

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT   ==>_                               841015/11:43 *
* Enter start selection num ==> .....                      Page 00001 *
*   Resp. department   ==> ..... A - Add record *
*   Resp. user         ==> .... Report.d ==> ..... B - Browse record *
*   Status             ==> .... Type      ==> ... D - Delete record *
*   System             ==> ....                      S/U Update record *
*   Priority           ==> .. .. .. P - Print record *
*   Start-date        ==> ..... End-date ==> ..... T - Add extra text*
*
* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
Enter *          NR          DATE  TIME  MIN.          USER/DEPART. *
'D' ==> * D 004110      CSW OTHR 830317 1514      25 840924 CLOS 03 V-D /2520 *

```

NOTE : when you delete a mother record all daughters assigned to the same record (the six first digits are same) are deleted when you delete a daughter record it must have the last sequence number.


```

*****
* ----- D R F / U P D A T E ----- DRF / LVL2.3 -----*
*                                     841015/11:45 *
* DRF-Report number      <R>: 009065   'O' ==> System will give SR-number *
* Reporters name        : Allan Sahlin   Dept : 2130   V-D *
*                                     Added/Upd by : G006573 / G006573 *
* Disturbance date      <R>: 830616   Time      <R>: 2100 *
* Bypass -Date          : 830616   Time      : 2250 *
* Received/accepted -date : .....   Solved -Date : 840924 *
*                                     Should be solv: ..... *
* Hard, Soft, Else-ware <R>: E       Host      : ..... *
* Type                  : CEW         System    <R>: OTHR *
* Unit                  : .....       Vendor    : ... *
* Repair - time         : .....       Planed interr.: . *
* Priority               <R>: 05       Status    : CLOS Date : 840925 *
* PSC Number            : .....       PSC Note   : ..... *
*                                     Related MR-NR : ..... *
* Responsible user      : V-D         Resp. dept : 2511 *
* Other notes           : ..... *
* Disturbance text      <R>: prblem m avsliten loggtape för imsv1 *
*                                     : ..... *
* Solution description   : se instruktion *
* Extra text 'Y' OR 'N' : N           Sum DR-Records: 00 *
*
*PF1 HELP PF2 UPD DREC PF3 RETURN PF4 PR/SCR PF5 PR/REP PF6 CLEAR PF9 PROF *
*****

```

Figure 8. DRF update mother map.

NOTE:

Hard, soft or else - ware must be 'H', 'S' or 'E'
 TYPE - as defined ID DRFTOD table.
 SYSTEM - as defined ID DRFTOD table.
 VENDOR - as defined ID DRFTOD table.
 PRIORITY - less than 6. Only by master operator.
 STATUS - Only by master operator.
 If 'Received date' is entered, STATUS ==> 'OPEN'.
 If 'Solved date' is entered, STATUS ==> 'CPEN'.
 If 'PSC number' is entered, STATUS ==> 'PSC'.

Message DRF119I in case of successful update.

The fields in the 'UPDATE' map are described in "DRF/online ADD map." on page 9.

2.1.10 DRF/online update daughter record.

To update daughter record (affected system report record) do one of the following.

1. select option '2' in primary map (update option).
Fill in mother report-number and hit enter.

```
*****
*----- D R F / U P D A T E   M A P
*
* DRF REPORT NUMBER      ==>%4700..
*
```

Fill in daughter report-number and hit enter.

```
*****
*----- D R F / U P D   D A U G H T E R   M A P
*
* DRF REPORT NUMBER      ==>%00470001
*
```

2. select option '3' in primary map (update option) and hit enter. Set character 'U' in front of number in utility map and hit enter.

It is possible to enter 'U' in front of a mother record and hit enter. Then you can hit PFK 2/14 and enter the daughter record number.

```
*****
*----- D R F / U T I L I T Y   M A P -----
Enter 'U'*
to      *
update==>* U;00470001   CHW MST1 821208 1300   150 821208 AV
```

After 1 or 2 is selected Figure 9 on page 19 is displayed.

```

*****
* ----- DRF / U P D   D A U G H T E R ----- DRF / LVL 2.3 ----*
*                                     841015/11:47 *
*
* DRF-Report nr   : 00906501           (Supported by system) *
* Reporters name  : Jan Thulin         User: V-D   Dept.: 2510 *
*
* Type            <R>:_CEW             Mother system : OTHR *
* System          <R>: OTHR            Added by      : G085004 *
*
*                                     Updated by      : *
*
* H/S/E  -Ware <R>: E *
* Dist.  -date <R>: 830616 *
*        -time <R>: 2100 *
* Bypass -date   : 830616 *
*        -time   : 2250 *
* Host         : .... *
* Unit         : ..... *
* Vendor       : ... (Required if hardware) *
* Repair -time : .... *
*
* Disturbance text: prblem m avsliten loggtape för imsv1 *
* Extra text suppl: N *
*
*
* ----- PFK 3 ==> RETURN ----- <R> ==> REQUIRED ENTER ==> ADD -----*
*****

```

Figure 9. DRF update daughter map.

NOTE: Hard, soft or else - ware must be 'H', 'S' or 'E'

TYPE	- as defined ID DRFTOD table.
SYSTEM	- as defined ID DRFTOD table.
VENDOR	- as defined ID DRFTOD table.

Message DRF1191 in case of successful update.

The fields in the 'UPD DAUGHTER' map are described in "DRF/online ADD map." on page 9.

2.1.11 DRF/online utility functions.

The DRF utility function displays one to 10, 18 or 29 lines of DRF records, depending on screen size. The records are listed in disturbance date/time sequence. When utility is entered the first record in the data-base is displayed.

NOTE: Only those disturbance records that you have access to are displayed. The access is usually your department id. Default access is disturbances with responsible department equal to your profile department are displayed.

You can scroll the databases forward by PFK 8 or backward by PFK 7.

If you like to start the list of records at a certain number enter the number in 'START SELECT FROM NUMBER ===>

The record list also could be created upon criterias as: TYPE, SYSTEM, PRIORITY, START-STOP DATE, STATUS, RESPONSIBLE DEPARTMENT AND USER, and REPORTERS DEPARTMENT.

You can enter a 'A' for ADD, 'D' for DELETE, 'P' for PRINT, 'B' for BROWSE and 'U' or 'S' for UPDATE in front of a record number. DRF utility then links to the requested function. You could also add extra text (more than 100 character text). If needed enter 'T' or enter command 'TEXT <recordnr>'. You could also enter the DRF special editor by entering command 'EDIT <member name>'. See more about this in the section "DRF Editor." on page 31.

Other commands that are supported are FIND, PRINT, SET, and TITLE.

```
*****
* ----- DRF / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT   ===>_                               841015/11:43  *
* Enter start selection num   ===> .....                Page 00001 *
*   Resp. department         ===> .....                A - Add record *
*   Resp. user               ===> .... Report.d   ===> ..... B - Browse record *
*   Status                   ===> .... Type       ===> ...   D - Delete record *
*   System                   ===> .....                S/U Update record *
*   Priority                 ===> .. ... ..            P - Print record *
*   Start-date              ===> ..... End-date   ===> ..... T - Add extra text*
*
* -----*
* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
*   NR          DATE TIME MIN.          CLOS 03  V-D /2520 *
* . 004110      CSW OTHR 830317 1514   25 840924 CLOS 03  V-D /2511 *
* . 009065      CEW OTHR 830616 2100   110 840924 CLOS 05  V-D /2124 *
* . 007371      CSW DASD 840101 0730    0 840102 CLOS 04  V-D /2595 *
* . 004952      CSW ATMS 840101 0900    0 840128 CLOS 03  IBM /2152 *
* . 007373      CHW 3800 840101 0950   325 840102 CLOS 03  IBM /2152 *
* . 007372      CHW 3800 840101 1230   90 840102 CLOS 04  IBM /2123 *
* . 007369      CHW MSS  840101 1828    0 840109 CLOS 02  V-D /2516 *
* . 007374      CSW VM   840102 0608    0 840102 CLOS 03  V-D /2122 *
* . 007375      CEW JES2 840102 0830    0 840104 CLOS 03  V-D /2530 *
* . 009258      CSW OTHR 840102 0900    0 840102 CLOS 03  V-D /2530 *
*
* -----*
*PF1 HELP PF3 RETURN PF4 PRINT SCR PF8 SCROLL +1 PF9 PROFILE PF11 VIEW RIGHT*
*****
```

Figure 10. DRF utility map.

2.1.11.1 Utility commands.

EDIT member Edit any member on the text library. The text library is pointed by the DRFJTEXT dd-card

FIND <argument> Find a first occurrence of a word.

FIND '<argument>' Find argument that can include blank

FIND NOT <argument> Find first occurrence that doesn't include this field.

FIND NOT '<argument>' Find first occurrence that doesn't include this field.

PRINT ALL Print all disturbances according to selected criteria as:
FROM NUMBER, TYPE, SYSTEM, PRIO, DATE.

SET HDEST=xxxx Set hardcopy destination to printer xxxx (only system programmer)

SET PDEST=xxxx Set print destination to printer xxxx (only system programmer)

TEXT number Add extra text for disturbance number xxxxxx

TITLE '<title>' Sets a title in printer output listings. Maximum 26 characters.

2.1.11.2 Utility PFK selection.

1. PFK 7/19 Scroll backward one page.
The last record number is subtracted by 19.
2. PFK 8/20 Scroll forward one page. If the last line was a DR the mother record is displayed on first line.
3. PFK 10/22 Scroll left one page.
Gives additional information.
4. PFK 11/23 Scroll right one page.
Gives additional information.

2.1.11.3 Utility record selection.

The 'START SELECT FROM NUMBER ==>' field is used to indicate start display selection of number xxxxxx (003900 in this case).

```

*****
* ----- D R F / U T I L I T Y   M A P -----
Enter: * Command input           ==> .....
003900 ==> * Enter start selection num ==> 003900
* Resp. department           ==> .....
* Resp. user                 ==> .... Report.d ==> ....
* Status                     ==> .... Type           ==> ...
* System                     ==> ....
* Priority                    ==> .....
* Start-date                 ==> ..... End-date > .....
*
* -----
* MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
*           NR           DATE   TIME MIN.
*
Start of list ==> * . 003900   CHW 3800 821208 1300   150 821208 CL

```

To simplify search of disturbance records you can enter:
RESPONSIBLE DEPT/USER, STATUS, TYPE, SYSTEM, PRIORITY, or START/END DATE.
Only records that matches all selected items are displayed.

```

In this case
dept '2120'
selected
Enter
Department = '2120'

*****
* ----- D R F / U T I L I T Y   M A P -----
* Command input           ==> .....
* Enter start selection num ==> 003900
* Resp. department           ==> 2120....
* Resp. user                 ==> .... Report.d ==> ....
* Status                     ==> .... Type           ==> ...
* System                     ==> ....
* Priority                    ==> .....
* Start-date                 ==> ..... End-date > .....
*
* -----
* MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
*           NR           DATE   TIME MIN.
*
Selected record
starts here ==> * . 003900   CHW 3800 821208 1300   150 821208 CL

```

In this case
user 'V-D' is
selected

Enter
User = 'V-D'

Selected record
starts here ==>

```
*****
* ----- D R F / U T I L I T Y   M A P -----
* Command input          ==> .....
* Enter start selection num ==> 003900
*   Resp. department     ==> .....
*   Resp. user           ==> V-D Report.d ==> ....
*   Status                ==> .... Type      ==> ...
*   System                ==> .....
*   Priority              ==> .....
*   Start-date           ==> ..... End-date > .....
*
* -----
*   MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
*           NR           DATE   TIME  MIN.
*
* . 003900      CHW 3800 821208 1300   150 821208 CL
```

In this case
type 'CHW' is
selected

Enter
Type = 'CHW'

Selected record
starts here ==>

```
*****
* ----- D R F / U T I L I T Y   M A P -----
* Command input          ==> .....
* Enter start selection num ==> 003900
*   Resp. department     ==> .....
*   Resp. user           ==> .... Report.d ==> ....
*   Status                ==> .... Type      ==> CHW
*   System                ==> .....
*   Priority              ==> .....
*   Start-date           ==> ..... End-date > .....
*
* -----
*   MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
*           NR           DATE   TIME  MIN.
*
* . 003900      CHW 3800 821208 1300   150 821208 CL
```

In this case
system '3800' is
selected

Enter
System = '3800' ==>

Selected record
starts here ==>

```
*****
* ----- D R F / U T I L I T Y   M A P -----
* Command input          ==> .....
* Enter start selection num ==> 003900
*   Resp. department     ==> .....
*   Resp. user           ==> .... Report.d ==> ....
*   Status                ==> .... Type      ==> ...
*   System                ==> 3800
*   Priority              ==> .....
*   Start-date           ==> ..... End-date > .....
*
* -----
*   MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
*           NR           DATE   TIME  MIN.
*
* . 003900      CHW 3800 821208 1300   150 821208 CL
```

```

In this case          *****
priority '04' is     * ----- DRF / U T I L I T Y   M A P -----
selected              * Command input          ==> .....
                      * Enter start selection num ==> 003900
                      *   Resp. department      ==> .....
                      *   Resp. user           ==> .... Report.d ==> ....
                      *   Status               ==> .... Type       ==> ...
Enter                 *   System               ==> .....
Priority = '04' ==>  *   Priority               ==> 04 .. ..
                      *   Start-date          ==> ..... End-date > .....
                      *
                      * -----
Selected record       * MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
starts here ==>      *      NR           DATE   TIME   MIN.
                      *
                      * . 003900      CHW 3800 821208 1300   150 821208 CL
    
```

```

In this case          *****
start date is        * ----- DRF / U T I L I T Y   M A P -----
selected              * Command input          ==> .....
                      * Enter start selection num ==> .....
                      *   Resp. department      ==> .....
                      *   Resp. user           ==> .... Report.d ==> ....
Enter                 *   Status               ==> .... Type       ==> ...
Start-date = 821208 *   System               ==> .....
                      *   Priority               ==> .. .. .
                      *   Start-date          ==> 821208 End-date > .....
                      *
                      * -----
Selected record       * MR-NR DR   TYP SYST. DISTURBANCE BREAK SOLVED ST
starts here ==>      *      NR           DATE   TIME   MIN.
                      *
                      * . 003900      CHW 3800 821208 1300   150 821208 CL
    
```

The UTILITY MAP has a default header shown below, but more information are available by pressing PFK10/PFK22 or PFK11/PFK23.

```

* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV STAT  PRIO RESPONSIB*
*           NR              DATE  TIME  MIN.                USER/DEPT*
*
* . 003900      CHW 3800 821208 1300   150 821208 CLOS  04 V-D /2120*
Disturbance I    I  I    I    I    I    I    I    I    I    I    I
report num <--  I  I    I    I    I    I    I    I    I    I    I
Type of error <--  I    I    I    I    I    I    I    I    I    I    I
Failing system <----I    I    I    I    I    I    I    I    I    I    I
Disturbance error date/time<-I-----I    I    I    I    I    I    I    I
Time in min. between error and bypass <---I    I    I    I    I    I    I    I
Solved date of disturbance <-----I    I    I    I    I    I    I    I
Status of failing/courced system report <-----I    I    I    I    I
Priority, responsible person of this reports and daughter records <-----I

```

Following information are available by pressing PFK 11 / PFK 23

```

* MR-NR DR      SYST BYPASS      HOST VEN PLA  ADDED  UPDATED  STATUS *
*           NR              DATE  TIME      DOR  INT  BY    BY    CHANE *
*
* . 003900      3800 821202 1530      IBM   N  G085004 G075951 8309100 *
Disturbance I    I    I  I  I  I  I  I    I    I    I
report num<--  I    I  I  I  I  I  I  I    I    I    I
Failing system <---  I  I  I  I  I  I  I  I    I    I    I
Bypass date/time -----I  I  I  I  I  I  I  I    I    I    I
The time when the system was up I  I  I  I  I  I  I  I    I    I    I
CPU <-----I  I  I  I  I  I  I  I    I    I    I
Vendor of this system <-----I  I  I  I  I  I  I  I    I    I    I
Was this disturbanse planed or not planed ? <--  I    I    I    I
This report was added/updated by user xxx <-----I
The status of the report was changed date <-----I

```

Other information in the UTILITY map can be seen by pressing PFK11/PFK23. This information is shown below. PFK11/23 to get next page. PFK10/22 to get previous page. (left and right)

```

* MR-NR DR      SYST DISTURBANCE TEXT *
*           NR *
*
* . 003900      3800 CAN NOT WRITE OR READ *
Disturbance I    I    I
report num<-I    I    I
Failing system <--I    I
Disturbance text <-----

```

2.1.11.4 Mother or daughter Browse.

Select option '3' in primary map see Figure 3 on page 7. Set the character 'B' in front of the number you want to browse and hit enter key. You can enter one or more 'B's at the same time.

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT   ==>_                               841015/11:43   *
* Enter start selection num ==> .....                      Page 00001 *
*   Resp. department   ==> ..... A - Add record *
*   Resp. user         ==> .... Report.d ==> ..... B - Browse record *
*   Status             ==> .... Type       ==> ... D - Delete record *
*   System             ==> .... S/U Update record *
*   Priority           ==> ..... P - Print record *
*   Start-date        ==> ..... End-date ==> ..... T - Add extra text*
Enter *
'B' * MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
in front *          NR              DATE TIME MIN.          USER/DEPART. *
of nr ==>* B 009065      CEW OTHR  830616 2100   110 840924  CLOS  05  V-D /2511 *

```

After 'B' is selected following map is displayed. It has the same format as the 'ADD' and the 'UPDATE' maps. To browse a daughter record enter a 'B' in front of a daughter record number (8 digits long).

```

*****
* ----- D R F / B R O W S E ----- DRF / LVL2.3 ----*
*                               841015/11:45   *
* DRF-Report number   <R>: 009065   'O' ==> System will give SR-number *
* Reporters name      : Allan Sahlin Dept : 2130 V-D *
*                               Added/Upd by : G006573 / G006573 *
* Disturbance date   <R>: 830616   Time <R>: 2100 *
* Bypass -Date       : 830616     Time : 2250 *
* Received/accepted -date : ..... Solved -Date : 840924 *
*                               Should be solv: ..... *
* Hard, Soft, Else-ware <R>: E     Host : .... *
* Type               : CEW         System <R>: OTHR *
* Unit               : .....      Vendor : ... *
* Repair - time      : ....       Planed interr.: . *
* Priority            <R>: 05       Status : CLOS Date : 840925 *
* PSC Number         : .....      PSC Note : ..... *
*                               Related MR-NR : ..... *
* Responsible user    : V-D        Resp. dept : 2511 *
* Other notes        : ..... *
* Disturbance text   <R>: prblem m avsliten loggtape för imsv1 *
*                               : ..... *
* Solution description : se instruktion *
* Extra text 'Y' OR 'N' : N          Sum DR-Records: 00 *
*
*PF1 HELP PF2 UPD DREC PF3 RETURN PF4 PR/SCR PF5 PR/REP PF6 CLEAR PF9 PROF *
*****

```

Figure 11. Browse mother record.

2.1.11.5 Print records.

The PRINT function prints selected records (MR or DR) to a print data-set. One or more records could be selected each time. All records could also be printed by the 'PRINT ALL' command.

The output is queued to the local printer assigned in your profile. use PF9/21 to update your local printer destination.

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT   ==>_                               841015/11:43   *
* Enter start selection num ==> .....                      Page 00001
*   Resp. department ==> ..... A - Add record *
*   Resp. user       ==> ..... Report.d ==> ..... B - Browse record *
*   Status           ==> ..... Type       ==> ... D - Delete record *
*   System           ==> ..... S/U Update record *
*   Priority         ==> ..... P - Print record *
*   Start-date      ==> ..... End-date ==> ..... T - Add extra text *
Enter *
'P'  * MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
in front *          NR          DATE  TIME  MIN.          USER/DEPART. *
of nr ==>* B 009065      CEW  OTHR  830616 2100   110  840924  CLOS  05  V-D /2511 *

```


2.1.11.6 Find records.

'FIND' command is used to search after a special argument in the records selected in the UTILITY MAP. find syntax is :

- FIND <argument>
- or
- FIND '<argument>'
- or
- FIND NOT <argument>
- or
- FIND NOT '<argument>'

In FIND '<argument>' you can use blanks in the argument. A maximum length of 20 characters in the argument could be set. All records selected in the utility map are searched.

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT   ==> FIND NOT CLOS                               841015/11:43 *
* Enter start selection num ==> .....                               Page 00001 *
*   Resp. department   ==> .....                               A - Add record *
*   Resp. user         ==> .... Report.d ==> .....           B - Browse record *
*   Status             ==> .... Type       ==> ...           D - Delete record *
*   System             ==> .....                               S/U Update record *
*   Priority           ==> .....                               P - Print record *
*   Start-date        ==> ..... End-date ==> .....         T - Add extra text*
Records not listed 'CLOS' will be listed ==>
* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
*              NR          DATE  TIME  MIN.          USER/DEPART. *
* ==> * B 009065  CEW  OTHR  830616 2100    110  840924  OPEN  05  V-D /2511 *

```

2.1.12 DRF Editor.

DRF editor allows the user to create or update :

1. Extra text for a record.
2. Batch JCL for execution of DRF batch utility.
3. Tutorial formats. (System programmer only).
4. Any member in the TEXT library (pointed by the DRFJTEXT dd-card).

DRF editor selects a member from the DD-card DRFJTEXT. DRF editor is a small editor to provide small full-screen functions as:

Scroll up or down. PFK 7 /19 or PFK 8/20

Scroll left or right. PFK 10/22 or PFK 11/23

Uppercase or lowercase data entering (Lowercase need TCT update)

Create new member on PDS. CRE <member-name>

Save current member. SAVE <member-name>

Cancel current member. CAN

Line commands as: Insert line, Delete line, Repeat line.

DRF saves information in the PDS directory similar to the SPF statistics.

DRF Editor works with a screen containing 16 text lines. The text could be scrolled up PFK7/19 or down with PFK8/PFK20. The text could also be scrolled left by PFK10/22 or right by PFK11/23.

The maximum number of text lines that could be entered are 100.

```

*****
* DRF --- X0906500 / ???????? ---- T E X T   M A P   ----- DRF / LVL2.3 ----*
* COMMAND INPUT ==>_                               841015/11:46   *
* LINENR ----+----1----+----2----+----3----+----4----+----5----+----6----+----7---*
* ***** ***** TOP OF DATA *****
* 001000 841015      Exempel på extra text
* 002000
* 003000
* 004000
* 005000
* 006000
* 007000
* 008000
* 009000
* 010000
* 011000
* 012000
* 013000
* 014000
* ***** ***** BOTTOM OF DATA *****
*
*
*
*
* ----- PFK 8 ==> NEXT PAGE ----- PFK 3 ==> RETURN ----- *
*****

```

Figure 12. DRF text map.

2.1.12.1 Edit commands

SAVE	- SAVES MEMBER ON PDS. DRF automatically creates SPF statistics.
CREATE NAME	- CREATE A NEW MEMBER. If in TEXT mode the number must have a valid mother or daughter record.
CANCEL	- RETURN WITHOUT SAVING.
UPPERC ON/OFF	- SET UPPER CASE TRANSLATION ON OR OFF. CICS TCT needs to be updated.
DISP name	- Displays a member with name 'name' with the TFS feature.
n	- A one or two digit number indicating the number of lines to be paged backed PF7 or forward PF8.
SUBMIT	- Submit a batch job.

2.1.12.2 Edit line commands.

- D. - Delete line(s) one or more lines can be deleted
- I. - Insert line. Add a new line
- R. - Repeat line.

001000

I 2000 Insert a line after this one.

003000

Causes

001000

002000 Insert a line after this one.

//////

003000

2.1.12.3 DRF extra text.

To invoke the DRF EDITOR/extra text enter '3' in primary map. In the UTILITY map you can either enter 'T' in front of the record number or enter 'TEXT xxxxxx' in 'COMMAND INPUT ==>'.
 Enter 'TEXT'

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT ==> TEXT 009065                               841015/11:43 *
* Enter start selection num ==> .....                          Page 00001 *
*   Resp. department      ==> .....                          A - Add record *
*   Resp. user            ==> .... Report.d ==> .....        B - Browse record *
or *   Status              ==> .... Type           ==> ...     D - Delete record *
*   System               ==> .....                          S/U Update record *
*   Priority              ==> .....                          P - Print record *
Enter *   Start-date         ==> ..... End-date ==> .....      T - Add extra text *
'T/' *
in front * MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
of nr.   *           NR          DATE  TIME    MIN.                USER/DEPART. *
==>     * T 009065      CEW  OTHR  830616 2100   110  840924  OPEN  05  V-D /2511 *
    
```

2.1.12.4 DRF batch execution.

To invoke the DRF EDITOR/batch enter '4' in primary map. More information about the 'BATCH' function is described in "DRF submit batch job." on page 35.

2.1.12.5 DRF editor.

To invoke the DRF editor for any member enter '3' in primary map. In UTILITY map enter 'EDIT mbr-name' in 'COMMAND INPUT ==>'.
 Enter 'EDIT'

```

*****
* ----- D R F / U T I L I T Y   M A P ----- DRF / LVL 2.3 ----*
* COMMAND INPUT ==> EDIT DRFTOD                               841015/11:43 *
* Enter start selection num ==> .....                          Page 00001 *
*   Resp. department      ==> .....                          A - Add record *
*   Resp. user            ==> .... Report.d ==> .....        B - Browse record *
*   Status              ==> .... Type           ==> ...     D - Delete record *
*   System               ==> .....                          S/U Update record *
*   Priority              ==> .....                          P - Print record *
*   Start-date         ==> ..... End-date ==> .....      T - Add extra text *
*
* MR-NR DR      TYP SYST. DISTURBANCE BREAK SOLV  STAT PRIO RESPONSIBLE *
*           NR          DATE  TIME    MIN.                USER/DEPART. *
* 009065      CEW  OTHR  830616 2100   110  840924  OPEN  05  V-D /2511 *
    
```

2.1.13 DRF submit batch job.

To invoke DRF batch enter '4' in primary map. The batch job feature allows the user to edit and submit a batch job stream. The editor is described in earlier chapter.

To submit batch job enter 'SUBMIT' in 'COMMAND INPUT ==>'.
 You can cancel edit by entering 'CAN' in 'COMMAND INPUT ==>'.
 When leaving by PFK 3 member is saved in TEXT dataset with member name 'userid'.

```

*****
* DRF --- G085004 / G085004 ----- STATISTICS MAP .----- DRF / LVL2.3 ----*
* COMMAND INPUT ==>_ 841015/11:48 *
* LINENR ----+----1----+----2----+----3----+----4----+----5----+----6----+----7---*
* ***** TOP OF DATA *****
* 001000 //G085004B JOB (610VV405200,2510,02,10), *
* 002000 // '2510 JT DRF BATCH ', *
* 003000 // CLASS=N,NOTIFY=G085004,MSGCLASS=H,USER=G085004,PASSWORD=* *
* 004000 /*ROUTE PRINT NJQVD *
* 005000 //*-----* *
* 006000 /** JAN THILIN 1984-10-09 *
* 007000 /** DOC ANVÄNDS FÖR DRF / TEXT ONLINE *
* 008000 //*-----* *
* 009000 //DRF EXEC DRFPBOO *
* 010000 //DRFIN DD * *
* 011000 -SELECT MRO *
* 012000 DATE START=840101 STOP=840630 *
* 013000 * DATE START=820614 STOP=820620 *
* 014000 * PRIO=(02,04) *
* 015000 * TYPE=CSW *
* 016000 * HSEW=H *
* 017000 * DADR=(MINNE ,421 ) *
* 018000 * VEN=IBM *
* *
* ----- PFK 8 ==> NEXT PAGE ----- PFK 3 ==> RETURN ----- *
*****

```

Figure 13. DRF batch map.

2.1.14 DRF status function.

Gives the current status of the DRF databases :

1. The DD names.
2. The creation data and time.
3. Last update date and time.
4. Sum records in bases.
5. Valid types, systems and vendors.
 - Could be scrolled left by PFK10/22.
 - Could be scrolled right by PFK11/23.

```

*****
* ----- D R F / S T A T U S   M A P ----- DRF / LVL 2.3 ----*
*                                     841015/11:48      *
*                                     *                *
*                                     *                *
*                                     *                *
* MR-register      : _DRFJOMRO           DR-register      : DRFJODRO      *
* DSN              : F1CIVDAV.JT.DRFJOMPO DSN              : F1CIVDAV.JT.DRFDREG*
* Created          : 1980-07-01  18:00   Created          : 1980-07-01  18:00 *
*                                     *                *
* Latest add       : 1984-10-10  10:56   Latest add         : 1984-10-09  14:30 *
* Latest update    : 1984-10-10  11:30   Latest update      : 1984-10-04  11:22 *
* Latest delete    : 1984-10-10   8:30   Latest delete      : 1984-10-09  14:55 *
*                                     *                *
* Sum MR-records   : 11016                Sum DR-records     : 17          *
*                                     *                *
* VALID TYPES     : CSW   CHW   CEW      *
*                                     *                *
* Valid systems   : VKOS   VINF   CICS   VM   RSCS   VCI   VCNA   VKOS   VINF *
*                                     *                *
* Valid vendors   : IBM    MRX   DIG   SI   ROX   OTH   KOD   STC   SRA   *
*                                     *                *
*                                     *                *
* PFK 10 => PAGE LEFT ----- PFK 11 => PAGE RIGHT ----- PFK 3 ==> RETURN *
*****
    
```

Figure 14. DRF batch map.

2.1.16 DRF tutorial function.

DRF tutorial/help is invoked by select option '7' in primary map or by pressing PFK 1/PFK 13 in any screen map.

This tutorial provides on-line information about the features and operation of DRF. You may view the TUTORIAL sequentially, or you may choose selected topics from lists that are displayed on many of the TUTORIAL pages.

DRF tutorial/help uses TFS, TERMINAL FORMAT SERVICES, for this feature. Each tutorial map or format is located on a member in a PDS dataset called the TFSJFORM. When PFK 1 or PFK 13 is pressed DRF puts the current map name in a request area called TFSCRA and LINKS to TFS (TFSPX00).

Following names on the TFSJFORM dataset are assigned for DRF maps. Each member starts with DRFFxx. Where xx is one of following:

```

00 - PRIMARY MAP
03 - AVAIL MAP
04 - TEXT MAP
05 - DELETE MAP
07 - MOTHER MAP
08 - UTILITY MAP
09 - FIRST UPD MR MAP
10 - DAUGHTER MAP
11 - FIRST UPD DR MAP
12 - STATUS MAP
13 - IEBGENER PRINT

```

The format of the member has the general format.

```

)ATTR
.
BODY OF FORMAT/SCREEN
.
)END
)FIELD
OPT CHAR(5)
)SELECT
AID ...
FLD OPT=0 FORM=xx
.
FLD OPT=X RETURN

```

The member body could have any format. Some attribute tags are assigned:

```
% = OUTPUT PROT HI
; = OUTPUT PROT NORM
" = INPUT HI
```

Some command cards:

```
)ATTR ID= IH= IN= OH= ON= INPUT DARK, INPUT HI, INPUT NORMAL, OUTPUT
HI, OUTPUT NORMAL DISPLAY. This command must occur first in
the member.
```

```
)END Indicates end of body format.
```

```
)FIELD Describes the input fields. In TFS tutorial one (OPT). The
')FIELD' command could be followed by one or more field
description statements. In DRF tutorial/help one, the 'OPT'
field.
```

```
<fieldxx> CHAR(nn) Describes one specific field. In TFS tutorial field 'OPT'.
Fieldxx = Name for input field
CHAR(nn) Length for the input field
```

```
)SELECT Describes the select fields and action. The ')SELECT' com-
mand could be followed by one or more 'FLD' or 'AID' state-
ments.
```

```
FLD fieldxx=option FORM=Formatname FLD indicates that a field should be
checked for selection option.
'Fieldxx' = Name for input field
'option' = the selected option. This option could be one or
two character long. The characters 'B', 'S', 'U', 'A', and
'T' are reserved for TFS use.
'formatname' is the format name that should be displayed if
'fieldxx' is equal to 'option'.
```

```
AID key FORM=Formatname AID indicates PFK(1-24), PA(1-3), or ENTER key
should be checked.
'key' indicates a PFK(1-24), PA(1-3), or ENTER key.
'formatname' is the format name that should be displayed if
key 'key' was hit. A member name should be located on the
TFSJFORM with corresponding name.
```

Following example is a sample TFS format.

Certain variable names are reserved for use by the system. They all begin with the the letters '&Z'. These system variables are:

```
&ZDATE - Current date in yymmdd
&ZNODE - Current terminal node name. (8 characters).
&ZTIME - Current time in format 'hh:mm:ss'.
&ZTIM - Current time in format 'hh:mm'.
&ZDAY - Current day name. (9 characters).
```

- &ZPGM - Current program executing.
- &ZTER - Current CICS terminal ID (4 char).
- &ZTRC - Current transaction code.
- &ZUID - Current user id.

It is possible to add own defined variables. This is done by updating the TFSTODSY member. This member contains of one entry for each variable. Update the TFSTODSY member and reassemble the TFSTOD table.

The following system variables are currently assigned:

&DL - Current DRF release level.
&DOCDOM - Current DRF manual number.
&TL - Current TFS release level.
&TFSDOM - Current TFS manual number.
&SYSTP1 - System administrator 1 name.
&SYSTP2 - System administrator 2 name..
&TEL1 - System administrator 1 telephone number.
&TEL2 - System administrator 2 telephone number.
&ADDR1 - System administrator 1 address.
&ADDR2 - System administrator 2 address.
&COMPAN - This installation company name.
&COMPAD - This installation company address.

```

)ATTR OH=%,ON=;,IN=" ,IH=!
%DRF TUTORIAL----- TABLE OF CONTENTS ----- DRF / LVL 2.3 -----
%NEXT SELECTION ===>"OPT          %          &ZDATE/&ZTIM
%                                          &ZNODE
%
%          -----
%          I      DISTURBANCE REGISTRATION FACILITY      I
%          I          TABLE OF CONTENTS                  I
%          -----
;
;   THE FOLLOWING TOPICS ARE PRESENTED IN SEQUENCE, OR MAY BE SELECTED
;   BY ENTERING A ONE-CHACTER CODE IN THE 'NEXT SELECTION' FIELD:
;
%G;- GENERAL..... General information about DRF
%O;- ADD..... Add records to DRF files
%1;- DELETE..... Delete records to DRF files
%2;- UPDATE..... Update records to DRF files
%3;- UTILITY..... Perform DRF utility functions
%4;- BATCH..... Edit and submit job for batch processing
%5;- STATUS..... Obtain status information about DRF
%6;- AVAILABIY.... System availability functions
%X;- RETURN..... To terminate DRF tutorial

%
%
%
% PFK 3;==> RETURN %ENTER;==> NEXT PAGE;
)END
)-----
)FIELD
OPT CHAR(5)
)SELECT
AID ENTER FORM=GO
FLD OPT=G FORM=GO
FLD OPT=0 FORM=DRFF07
FLD OPT=1 FORM=DRFF05
FLD OPT=2 FORM=DRFF07
FLD OPT=3 FORM=DRFF08
FLD OPT=4 FORM=BO
FLD OPT=5 FORM=DRFF12
FLD OPT=6 FORM=DRFF03
FLD OPT=X RETURN

```

Figure 16. DRF/TFS tutorial format.

2.1.17 DRF change JCL for IEBGENER print.

When print for a record is issued in the UTILITY map, this output is written to the DRF.PRINT dataset. When leaving DRF from primary menu a 'JOB CARD MAP' is displayed. You are able to change the job card and/or the JCL. When you press ENTER a IEBGENER JOB is submitted.

```

*****
*----- DRF / J O B C A R D   M A P ----- DRF / LVL 2.3 -----*
*                                     830507/13:54                                     *
*                                                                              *
*                                                                              *
* JOB STATEMENT INFORMATION :      (PRINT AND BATCH RUN)                       *
*  -----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----*
*====> //DRFJOB          JOB          'ACCOUNTING INFO',NAME,MSGLEVEL=(1,1)      *
*====> /**                                                       *
*====> /**                                                       *
*====> /**                                                       *
*====> /**                                                       *
*                                                                              *
* JCL STATEMENT INFORMATION :      (BATCH RUN)                                 *
*  -----+-----1-----+-----2-----+-----3-----+-----4-----+-----5-----+-----6-----+-----7-----*
*====> //PRINT          EXEC          PGM=IEBGENER                             *
*====> //SYSUT1         DD            DRF.PRINT,DISP=SHR                       *
*====> //SYSUT2         DD            SYSOUT=*                                 *
*====> //SYSPRINT      DD            SYSOUT=*                                 *
*====> //SYSIN         DD            DUMMY                                    *
*====> /**-----*-----*-----*-----*-----*-----*-----*-----*-----* *
*====> /**              D R F      L V L 2.3   P R I N T                       *
*                                                                              *
*                                                                              *
*---- SEND ==> SAVE -----*-----*-----*-----*-----*-----*-----*-----*-----* *
*****

```

Figure 17. DRF jobcard map.

2.1.18 DRF LOG.

The DRF LOG is used to log all vital information about DRF such as: updates, adds, deletes, save member to the text dataset, print, submit etc. Sample output are listed below:

```

----- DRF / ONLINE LVL 2.3 ----- DRF / TRANSACTION LOG ----- 1984-01-17
1984-01-17 06:34 INIT - DRFPOPI - INITIALIZATION DRFO01I IN
1984-01-17 12:34 X001 - DRF/ONLINE SESSION STARTED
1984-01-17 12:34 X001 - G085004 - SIGN ON - DRF152I WE
1984-01-17 12:35 X001 - G085004 - UPDATE - MR-REC DRF119I MR
1984-01-17 12:40 X001 - DRF/ONLINE SESSION ENDED
1984-01-17 19:40 TERM - DRFPOSD - TERMINATION DRFO18I TE
      I      I      I      I      I      I
Date and time<-I      I      I      I      I      I
CICS terminal id<--I      I      I      I      I      I
Userid or program>---I      I      I      I      I      I
Type of update or change<-----I      I      I      I
Sub-type <-----I      I      I      I      I
Information message<-----I      I      I      I      I

```

Figure 18. DRF log example.

3.0 CHAPTER 3. MESSAGES AND CODES.

DRFO01I INITIALIZATION TERMI-
NATION OF DRF LVL 2.3 IS
COMPLETE

Explanation: Program DRFPOPI or
DRFPOSD has been entered.
This is done by 'DRF OPEN
CLOSE' or by CICS PLT.

DRFO02E UNSUCCESSFUL LINK TO
DRFPOC1 DATE PROGRAM

Explanation: DRFPOC1 link error check
PPT entry and load module.

DRFO10I SUCCESSFUL OPEN CLOSE OF
DRFJTEXT DATASET

Explanation: DRFJTEXT dd card is now
open for processing.

DRFO11I UNSUCCESSFUL OPEN OF
DRFJTEXT DATASET

Explanation: Error during open, check
JCL log message and dd
card.

DRFO12I CHECK IF DD CARD IS PRESENT

Explanation: See DRFO11I.

DRFO13E UNSUCCESSFUL LOAD OF DRFTOD
TABLE

Explanation: Error during load, check
PPT entry and load module.

DRFO14E INITIALIZATION TERMI-
NATION OF DRF LVL 2.3 IS
UNSUCCESSFUL

Explanation: See above messages.

DRFO16I TFS FEATURE SET IN DRFTOD,
BUT TFSTOD NOT FOUND

Explanation: Warning check DRFTOD and
PPT entry.

DRFO18I MR-NR xxxxxx, DR
xxxxxxx, SUCCESSFULLY
DELETED

Explanation: Record xxxxxx is now
deleted from the DRFJOMR or
the DRFJODR dataset. Record
is not physically deleted
but indicated deleted in a
status byte by x'ff'.

DRFO19I INPUT ERROR INPUT MISSED

Explanation: PFK error or screen
error.

DRFO20I ILLIGAL SELECTION CODE

Explanation: This selection code is
not supported.

DRFO21I INVALID COMMAND SUBPARAM-
ETER

Explanation: Command not recognized
by DRF.

DRFO22I ADD DR-RECORD REQUEST
REQUIRE MR-REC-NR

Explanation: If you need to add a
daughter record first you
need to add the mother
record. Enter MR-number and
reenter PFK 2.

DRFO23I MORE THAN ONE REQUEST NOT
ALLOWED

Explanation: In UTILITY one 'A', 'B',
'U' or 'T' is allowed.

DRFO40I IN DR-REC-DELETE, IT MUST
BE THE LAST ONE

Explanation: When you delete a DR-re-
cord it must be the one
with highest sequence num-

ber zz in xxxxxxxzzz number.
 DRFO40E ERROR FOUND DURING DELETE REQUEST

Explanation: See earlier message.

DRFO75I INTRDR OPEN ERROR, IN USE OR DD CARD ERROR

Explanation: An error has occurred during submit. Reenter request, if still error contact system administrator.

DRF100I FIELD WITH '<R>' MUST BE FILLED IN

Explanation: '<R>' stand for required field. When you add or update a record, these fields must contain valid information.

DRF101I DIST. -DATE BYPASS-DATE SOLVED DATE > CURRENT DATE

Explanation: Check entered date and reenter date.

DRF103I BYPASS-DATE SOLVED DATE < DIST. DATE

Explanation: Check date and reenter.

DRF105I BYPASS-TIME < DIST-TIME

Explanation: Check time and reenter.

DRF106I DIST.-DATE BYPASS-DATE END-DATE SOLVED-DATE NOT A REASONABLE DATE

Explanation: Date utility DRFPOC1 has returned an error return code. reenter date.

DRF107I START-YEAR AND END-YEAR MUST BE THE SAME

Explanation: Availability does not support availability dates other than on the same year.

DRF109I DIST. -TIME BYPASS-TIME > 24:00

Explanation: Reenter time.

DRF110I DIST. -TIME (MIN) BYPASS-TIME > 59

Explanation: Reenter time.

DRF114I MUST BE 'H'-HARD, 'S'-SOFT OR 'E'-ELSEWARE

Explanation: Reenter hard-soft-elseware indicator.

DRF115I 'TYPE' 'SYSTEM' 'VENDOR' NOT DEFINED IN DRFTOD

Explanation: This id is not defined in DRFTOD. Check by STATUS selection '5' or with your system administrator for this id.

DRF116I 'SYSTEM' NOT DEFINED IN DRFTOD

Explanation: See DRF115I.

DRF118I PRIORITY > 5

Explanation: Priority must be 1,2,3,4, or 5.

DRF119I MR-NR ***** , DR-NR ***** , SUCCESSFULLY ADDED UPDATED

Explanation: None.

DRF150E INVALID NAME PASSWORD

Explanation: Name/userid or password not defined.

DRF151I JOB CARD CHANGE SUCCESSFUL

Explanation: Contact the system administrator.

Explanation: None

DRF152I WELCOME TO DRF
XXXXXXXXXXXXXX

Explanation: Indicates successful sign on.

DRF201E PROGRAM ABEND 'XXXX' IN
yyyyyyy SEC=zzzzzz

Explanation: An program abend xxxx has occurred in program yyyyyyy for section zzzzzzz. Contact the system administrator about this error.

DRF153I SIGN ON IS REQUIRED

Explanation: Before any further DRF processing could be made enter NAME and PASSWORD.

DRF202E ERROR, MAP ***** , M A P
F A I L

Explanation: None.

DRF197I D R F E N D E D XX:XX
YY-MM-DD AT YYYY

? Indicates successful sign off.

DRF203E MR-NR ***** , DR-NR
***** ALREADY EXISTS

Explanation: Duplicate record condition.

DRF198I JOB - xxxxxxxx - SUCCESS-
FULLY SUBMITTED

Explanation: Job xxxxxxx has successfully been submitted.

DRF204E ILLIGAL PGM-REQ

Explanation: Error in DRF program. Contact the system administrator about this error.

DRF199I DRF - ENDED - AND JOB
XXXXXXXXX SUBMITTED

Explanation: Indicates successful sign off and that job xxxxxxx has successfully been submitted.

DRF206E KEY (*****), LENGTH ERROR

Explanation: Error in DRF program. Contact the system administrator about this error.

DRF209E DOUBLE KEYS WITH MR-NR
***** DR-NR *****

DRF200E DATASET ***** , ID ERROR
I/O ERROR NOT OPEN NO
SPACE

Explanation: An error condition has occurred for this dataset name. Further DRF processing with DRF is impossible before this error has been solved. Contact the system administrator.

Explanation: Error in DRF program. Contact the system administrator about this error.

DRF210E MR-NUMBER ***** DR-NUM-
BER ***** NOT FOUND

Explanation: Record number xxxxxxx not found in the DRFJOMR or the DRFJODR dataset.

DRF201E P R O G R A M E R R O R

DRF213E WRONG PROGRAM REQUEST

- Explanation: Error in DRF program.
Contact the system administrator about this error.
- DRF220E INPUT ERROR
- Explanation: PFK error or other screen error.
- DRF221I INVALID OPTION NUMBER
- Explanation: None.
- DRF240E COMMAND INPUT INVALID
- Explanation: Command not supported by DRF.
- DRF230E SECURITY VIOLATION
- Explanation: Security violation has occurred. Your userid is prohibited to use this DRF function. See the DRFTOD table.
- DRF241E COMMAD INPUT INVALID COM-
MANDS MIXED
- Explanation: Mixed line commands and/or input commands.
Reenter request.
- DRF242E FIND PRINT TEXT COMMAND
INVALID SYNTAX
- Explanation: Check the syntax by help and reenter.
- DRF243E PRINT TEXT IS IN USE WITH
TERM-ID XXXX
- Explanation: The DRFJPRIN or DRFJTEXT dataset was currently in use by an other user. Reenter request, if still error contact your administrator.
- DRF244E UNSUCCESSFUL OPEN OF THE
PRINT-DATA-SET
TEXT-DATA-SET
- Explanation: An OS OPEN has returned an non zero return code.
Check JCL log. Could be an I/O error.
- DRF245E ABEND 'B37' HAS BEEN
DETECTED DURING PRINT
- Explanation: Overflow condition has occurred during print.
Increase your PRINT dataset allocation.
- DRF246E BLDL STOW SAVE CREATE
FAILED FOR XXXXXXXX RC=OX'
- Explanation: BLDL, STOW, or SAVE instruction has returned an non zero return code. Check OS macro instructions for return code.
- DRF247E MEMBER XXXXXXXX NOT FOUND
RC=OX
- Explanation: Return code from FIND macro.
- DRF248E BLOCKSIZE NOT 1280 IN TEXT
DATASET
- Explanation: The TEXT dataset must have a blocksize of 1280.
Reallocate your TEXT dataset.
- DRF250I PRINT COMMAND SUCCESSFULLY
PROCESSED
- Explanation: None.
- DRF251I SET FOR PRINT DEST=XXXX
COMPLETED
- Explanation: XXXX is now the new destination for print command.
- DRF260E TEXT FOR MBR XXXXXXXX
ALREADY EXISTS
- Explanation: A CREATE member in DRF editor has denied due to

TEXT already existed for
this member.

CICS, or on a local print-
er.

DRF261I MEMBER XXXXXX SUCCESSFUL-
LY CREATED SAVED

Explanation: None

DRF271I SCREEN IMAGE PRINT FAILED

Explanation: An non zero return code
has returned from TFS.

DRF263E LINE COMMAND INVALID

Explanation: Not a valid line com-
mand. Reenter.

DRF280E ERROR OCCURED DURING READ-
ING MEMBER=XXXXXXXX

Explanation: See JCL log for more
explanation messages.

DRF264E MORE THAN 100 CARDS IN
INPUT MEMBER

Explanation: The limit size of a mem-
ber is 100 cards.

DRF281E USE OF CHAR 'AO' ILLEGAL IN
STAT CALL

Explanation: Member names with prefix
'AO' is reserved for extra
text usage.

DRF265E PROGRAM ERROR FLAG P04CI
WSFLAG1

Explanation: An error condition has
occurred in DRFP004 (edi-
tor). Contact the DRF
administrator about this
error.

DRF296E INITIALIZATION OF DRF
FAILED

Explanation: See above messages.

DRF266E NUMBER NOT NUMERIC

Explanation: None.

DRF297E xxxxx IS NOT A VALID DRF
COMMAND

Explanation: None.

DRF267E MR- DR- RECORD NOT FOUND
IN XXXXXXXX

Explanation: Text for this number has
denied doe to record number
was not found in DRFJOMR or
DRFJODR.

DRF298E ERROR DURING CLOSING INTER-
NAL READER TEXT DATA-SET
PRINT DATA-SET

Explanation: An non zero return code
has returned from DRFPODOC.
See snap dump for reason.

DRF268E INSERT FAILED, MORE THAN
100 CARDS

Explanation: The limit size of a mem-
ber is 100 cards.

DRF299I SELECTED OPTION NOT YET
SUPPORTED

Explanation: None.

DRF270I SCREEN IMAGE PRINTED

Explanation: PFK 4 was hit, the
screen is now on the PRINT
dataset, on SYSOUT for

DRF330E DRFTUD LOAD ERROR

Explanation: Error during load, I/O
error or not found.

DRF331E DRFTOD LOAD ERROR

Explanation: Error during load, I/O error or not found.

DRF332E DATE SELECT ERROR

Explanation: Date not numeric or not valid.

DRF333E SYSTEM NOT DEFINED IN DRFTOD

Explanation: Check the selected system(s) against the DRFTOD table.

DRF336E USERID NOT DEFINED IN DRFTOD

Explanation: Check the userid against the DRFTOD table.

DRF337E SECURITY VIOLATION IN TABLE LISTINGS

Explanation: Userid found but the user is not assigned as system programmer.

DRF361E SYNTAX ERROR CARD IGNORED

Explanation: Check your syntax and reenter.

DRF362E NOT NUMERIC CARD IGNORED

Explanation: None.

DRF364E INVALID COMMAND ASSUMED

Explanation: This command is not valid. Reenter.

DRF366E CARD NOT SUPPORTED

Explanation: None.

DRF365W **WARNING** PRINT FIELD FROM XXXX WILL BE IGNORED DUE TO LONG FIELDS OUT WILL BE TRUNCATED

Explanation: Too many PRINT fields has been selected. The maximum length of the total PRINT fields are 121.

DRF366E **ERROR** SORT IGNORED

Explanation: MRO must be specified in the '-SELECT' command.

DRF367E **ERROR** MOD=LPM READ

Explanation: None.

DRF368E **ERROR** MOD=LPM MEMORY

Explanation: None.

DRF369E **ERROR** MOD=LPM SORT

Explanation: None.

DRF370E EODAD NOT PRESENT

Explanation: None.

DRF370E DATE WAS NOT SELECTED FOR SUMMARY REPORT. WHOLE REGISTER IS TO BE SELECTED

Explanation: None.

DRF399E SYNTAX ERROR CARD IGNORED

Explanation: None.

DRF399E OTHER ERROR CODES

Explanation: None.

DRF400E FILE HAVE BEEN CREATED

Explanation: Successful creation a sequential file to the DRFJFILE dataset.

DRF800E PARM FIELD SPEC. ERROR

Explanation: None.

		Explanation:	
DRF801E	PARM FIELD NUMBER NOT NUMERIC		TFS008I LINK TO DRFPOC1 ASSUMED
	Explanation: None.		Explanation:
DRF802I	REPORT LAYOUT LISTING ENDED RC=XX		TFS030E 'x' IS NOT A VALID OPTION
	Explanation: None.		Explanation:
TFS002I	TRACE STARTED PRO- GRAM=xxxxxxx, USER=uuuuuuuu TIME=hh.mm.ss DATE=yy-mm-dd		TFS031E LOGICAL ERROR IN TFSPX00 RC=xx
	Explanation: Trace has been started for program xxxxxxxx.		Explanation:
TFS003I	FORMAT=xxxxxxx, LOGADDR=yyyyyyy, ffff, TFS RC=rr, SYSTEM=ssss		TFS032E NOT A VALID PFK KEY
	Explanation: Print screen has been issued.		Explanation:
TFS004I	SUCCESSFUL OPEN CLOSE OF TFSJFORM DATASET		TFS040E 'xxxx' COMMAND SYNTAX ERROR, FIELD=xxxxxxxxxxxxxxxx
	Explanation:		Explanation:
TFS004I	UNSUCCESSFUL OPEN OF TFSJFORM DATASET CHECK IF DD CARD IS PRESENT		TFS041E ')END' COMMAND NOT FOUND IN M=xxxxxxx
	Explanation:		Explanation:
TFS005I	INITIALIZATION TERMI- NATION OF TFS LVL 3.4 IS COMPLETE UNSUCCESSFUL		TFS042E xxxxxxxxxxxxxxxxxxx IS NOT A VALID CARD
	Explanation:		Explanation:
TFS006I	UNSUCCESSFUL LOAD OF TFSTOD TABLE		TFS043E 'x' IS NOT A VALID SELECTION OPTION
	Explanation:		Explanation:
TFS007I	UNSUCCESSFUL LINK TO TFSPC1 DRFPOC1 DATE PRO- GRAM		TFS044E NO MORE HELP INFORMATION AVAILABLE
			Explanation:
			TFS045E xxxxxxxxxxxxxxxxxxxxxxxxx, SYNTAX ERROR IN FIELD STATEMENT

Explanation:

TFS046E FIELD NAME 'XXXXXXXXXX' HAS
INVALID FORMAT

Explanation:

TFS047E FIELD NAME 'XXXXXXXXXX' NOT
DEFINED

Explanation:

TFS048E SELECT 'xxx', MUST BE 'FLD'
OR 'AID'

Explanation:

TFS060E ERROR FOUND IN
MBR=XXXXXXXX;
CARD=XXXXXXXXXXXXXXXX

Explanation:

TFS201I PROGRAM ABEND 'aaaa' IN
TFSPNUC TFSPXOO, SEC-
TION=ssssssss

Explanation:

TFS243E TUTR IS IN USE WITH TERM-ID
xxxx

Explanation:

TFS244E UNSUCCESSFUL OPEN OF THE
FORM-DATA-SET

Explanation:

TFS246E BLDL FAILED FOR xxxxxxxx
RC=0x

Explanation:

TFS247E MEMBER xxxxxxxx NOT FOUND
RC=0x

Explanation:

TFS248E BLKSIZE NOT 1280 IN FORM
DATASET

Explanation:

TFS264E MORE THAN 100 CARDS IN
INPUT MEMBER

Explanation:

TFS270I SCREEN IMAGE PRINTED

Explanation:

TFS281I TUTORIAL OPTION OR PFK NOT
SPECIFIED IN MEM-
BER=xxxxxxxx

Explanation:

TFS282I INITIALIZATION OF TFS NOT
ISSUED

Explanation:

TFS296I INITIALIZATION OF TFS
FAILED

Explanation:

TFS297I xxxx IS NOT A VALID TFS
COMMAND

Explanation: