

Program Directory
for use with

GI10-8140-01

**Environmental Record Editing and Printing Program
Version 3
for
VM**

5654-260

Release 5, Modification Level 0



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Document Number GI10-8140-01

This Program Directory is delivered with program number 5654-260 for the following feature number(s):

5830, 5831, 5832, 5834

This directory contains information concerning the material and procedures associated with the installation of this program.

You should read all of it before installing the program, and then keep it for future reference.

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Preface

This document is intended for the system programmer responsible for program installation and maintenance. This document contains the following sections:

- Program Materials

This section identifies the basic and optional program materials and documentation for EREP.

- Program Support

This section describes the IBM* support available for EREP.

- Program and Service Level Information

This section lists the APARs (program level) and PTFs (service level) integrated into EREP.

- Installation Requirements and Considerations

This section identifies the resources and considerations for the installation and use of EREP.

- Installation Instructions

This section provides detailed installation instructions for EREP.

It also describes the procedures for activating the functions of EREP.

- Appendix A

This appendix provides the install logic for EREP.

Before installing EREP, read the section 3.2, "Preventive Service Planning" on page 5. This section tells you how to find any updates to the information and procedures in this Program Directory.

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Contents

Special Notices	ii
Trademarks	ii
Preface	iii
Tables and Figures	vi
1.0 Introduction	1
2.0 Program Materials	2
2.1 Basic Machine-Readable Material	2
2.2 Optional Machine-Readable Material	3
2.3 Program Publications	3
2.3.1 Basic Program Publications	3
2.3.2 Optional Program Publications	3
2.4 Microfiche Support	3
3.0 Program Support	4
3.1 Corrective Services (PTF)	4
3.2 Preventive Service Planning	5
3.3 Statement of Support Procedures	5
4.0 Program and Service Level Information	6
4.1 Program Level Information	6
4.2 Service Level Information	7
4.3 Cumulative Service Tape	7
5.0 Installation Requirements and Considerations	8
5.1 Driving System Requirements	8
5.1.1 Operating System Requirements	8
5.1.2 Machine Requirements	8
5.1.3 Programming Requirements	8
5.1.4 DASD Storage Requirements	8
5.2 Target System Requirements	8
5.2.1 Operating System Requirements	8
5.2.2 Machine Requirements	8
5.2.3 Programming Requirements	8
5.2.4 DASD Storage Requirements	9
5.3 Programming Considerations	9
6.0 Installation Instructions	10
6.1 Installing EREP	10
6.1.1 Basic Steps	10
6.2 Activating the Function of EREP	10
Appendix A. EREP Install Logic	11

Tables and Figures

1.	Basic Material - Program Tape(s)	2
2.	Program Tape(s) — File Content	2
3.	Basic Material - Program Publications	3
4.	PSP UPGRADE/SUBSET ID.	5
5.	Component IDs and Field Engineering Service Numbers	5
6.	Library Type Definition	9
7.	Storage Requirements for Libraries	9

1.0 Introduction

The Environmental Record Editing and Printing Program (EREP) is a diagnostic aid that provides information needed for the maintenance and maintenance management of computer systems by analyzing and reporting on error data recorded by IBM* operating systems.

EREP Version 3 Release 5 Feature 0 is a replacement for EREP Version 3 Release 4 and all its features. Additional product support has been included for 3390, ESCON Record, and I/O timer Record.

It is recommended that you read this document in its entirety before beginning to install EREP 3.5.0.

Where the information contained in this document differs from previously published information, this document should be considered the latest level.

In this program directory, any reference made to IBM program products is not intended to state or imply that only IBM's program products may be used; any functionally equivalent program may be used instead.

2.0 Program Materials

An IBM program is identified by a program number and a feature code. The program number for EREP is 5654-260.

You can find a description of the features supported by EREP in the program announcement material. See your IBM marketing representative for this information.

The following sections identify:

- The basic and optional program materials available with this program.
- Publications useful during installation.
- Available microfiche.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 9-track magnetic tapes, written at either 1600 or 6250 BPI, or a 3480 or 9346 cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using the I5654260 EXEC. See 6.0, "Installation Instructions" on page 10 for more information about installing the program. Figure 1 describes the tapes or cartridge. Figure 2 describes the file content of the program tapes or cartridge.

Figure 1. Basic Material - Program Tape(s)

MEDIUM	FEATURE NUMBER	PHYSICAL VOLUME	EXTERNAL TAPE LABEL	VOLSER
1600 tape	5830	1	5654 260 R5M0 VM	no label
6250 tape	5831	1	5654 260 R5M0 VM	no label
3480 cart.	5832	1	5654 260 R5M0 VM	no label
9346 cart.	5834	1	5654 260 R5M0 VM	no label

Figure 2. Program Tape(s) — File Content

VOLSER	FILE	NAME	NUMBER OF ELEMENTS	OTHER INFORMATION
ER3500	1	I5654260 03500 I5654260 EXEC	2	Product identifier Installation EXEC
ER3500	2	I5654260 MEMO	1	Product memo
ER3500	3	DMSIFC TEXT DMSREA TEXT I5654260 SRVLOG35 5654260J CURLEVEL V5654260 EXEC V5654260 RECORDS CPEREP EXEC EREPLIB TXTLIB ERFTRLIB TXTLIB ERPTFLIB TXTLIB	10	VM/EREP Interface Module VM/EREP Interface Module Service Log VM/EREP current level Verification EXEC Verification data VM/EREP Interface EXEC Executable code

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for EREP.

2.3 Program Publications

The following sections identify the basic and optional publications for EREP.

2.3.1 Basic Program Publications

Figure 3 identifies the basic program publications for EREP. One copy of each of these publications is included when you order the basic materials for EREP. For additional copies, contact your IBM representative.

Figure 3. Basic Material - Program Publications

PUBLICATION TITLE	ORDER/FORM NUMBER
EREP User's Guide	GC35-0151
EREP Reference Manual	GC35-0152

2.3.2 Optional Program Publications

There are no optional publications for EREP.

2.4 Microfiche Support

There is no microfiche for EREP.

3.0 Program Support

This section describes the IBM support available for EREP.

3.1 Corrective Services (PTF)

EREP Service Application

Corrective service for EREP will be supplied using normal service procedures, either on tape or delivered electronically.

Corrective service must be applied manually for EREP because it is not in the standard VMSES/E format. ERPTFLIB TLBXXXXX is shipped with the PTF, where XXXXX is the number of the PTF being applied. This file will replace ERPTFLIB TXTLIB on your system.

Electronic service for non-VMSES format products is delivered in one of the following formats:

```
NLSTxxxx.bin and NPTFxxxx.bin
- or -
order_number.SHIPDOCN and order_number.SHIPTFSN
```

The files need to be transferred to VM as BINARY FIXED 1024. DETERSE needs to be run against the electronically delivered files once they are on VM. DETERSE is on the MAINT 5E5 or 5E6 minidisk. The file type on VM must be SERVLINK.

The following steps will be performed using the tape or the service envelope file, SERVLINK, for the NPTFxxxx or SHIPTFSN file in order to apply the corrective service.

1. By default, EREP is installed on the MAINT 201 minidisk. Back up the critical EREP files before beginning any maintenance activity.
2. Scan the PTF media to identify the highest level text lib. Locate the ERPTFLIB TLBXXXXX file on the tape using the VMFPLC2 command or in the service envelope file, using the VMFPLCD command.

```
VMFPLC2 SCAN (181 DISK DATE EOT
- output will be TAPE MAP A
- or from envelope where envelope is on A-disk -
```

```
VMFPLCD SCAN ENV= envname SERVLINK A (DISK DATE EOD
- output will be DISK MAP A
```

3. XEDIT the TAPE MAP or DISK MAP file created by the SCAN and issue ALL/ERPTFLIB at the command line. Locate the file with the highest numeric suffix string in the filetype following the TLB prefix (TLBnnnnn).

4. Load the highest level ERPTFLIB TLBXXXXX file.

```
-- from tape --
VMFPLC2 REW 181
VMFPLC2 LOAD ERPTFLIB TLBnnnnn A (EOT
```

```
-- or from envelope --
```

```
VMFPLCD RST
VMFPLCD LOAD ERPTFLIB TLBnnnnn A (EOD
```

```
-- output will be the ERPTFLIB TLBXXXXX file on A disk
```

- Copy ERPTFLIB TLBXXXXX to ERPTFLIB TXTLIB with the REPLACE option, where xxxxx is the highest level PTF number. Make sure the previous version is backed up.

```
ACCESS 201 Z
RENAME ERPTFLIB TXTLIB Z ERPTFLIB TLBOLD Z (REPLACE
COPYFILE ERPTFLIB TLBxxxxx A ERPTFLIB TXTLIB Z (REPLACE
```

This completes the application of a 'typical' VM EREP PTF. A 'typical' VM EREP PTF replaces the EREP text lib (TXTLIB). Any other files received with the ERPTFLIB should be ignored. They are included due to packaging rules within the product and operating system. They are NOT needed in order to install EREP maintenance. They are NOT needed for any other component of your system. They should be ignored and should NOT be used by you for any reason. You should manually keep track of the service applied to your system.

3.2 Preventive Service Planning

Before installing EREP, you should check with your IBM Support Center or use either Information/Access or IBMLink (ServiceLink) to see whether there is any additional PSP information which you should be aware of. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 4. PSP UPGRADE/SUBSET ID.

UPGRADE	SUBSET
EREP350	VMEREP/350

If you obtained EREP individually from IBM Software Distribution, then, before installing EREP, you should also check with your IBM Support Center or use either Information/Access or IBMLink(ServiceLink) to see whether there is any additional PSP information which you should be aware of.

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, submit the data to the location identified in the *Programming System General Information Manual* (PSGIM), G229-2228, as being responsible for the failing component.

Figure 5 identifies the Component IDs (COMP ID) and the Field Engineering Service Numbers (FESN) for EREP.

Figure 5. Component IDs and Field Engineering Service Numbers

FMID	COMP ID	COMPONENT NAME	FESN
EER3500	565426001	EREP VM V3 R5 M0	5426001

4.0 Program and Service Level Information

This section identifies the program and service levels of EREP. The program level refers to the APAR fixes that have been incorporated into the program. The service level refers to the PTFs that have been integrated.

This program is at Service Update Level 350.

4.1 Program Level Information

The following APARs have been incorporated into EREP.

VM36902	VM36903	VM36907	VM37286	VM37286	VM37367
VM37581	VM37736	VM38038	VM38038	VM38145	VM38145
VM38727	VM38727	VM38779	VM38779	VM38787	VM38793
VM38793	VM38878	VM38878	VM38884	VM39133	VM39133
VM39268	VM39268	VM39287	VM39287	VM39327	VM39327
VM39472	VM39472	VM39654	VM39654	VM39655	VM39674
VM39677	VM39677	VM39827	VM39827	VM40118	VM40118
VM40220	VM40539	VM40539	VM40542	VM40542	VM40694
VM40694	VM40772	VM40772	VM41069	VM41098	VM41100
VM41100	VM41133	VM41133	VM41183	VM41183	VM41275
VM41275	VM41276	VM41276	VM41291	VM41291	VM41348
VM41348	VM41399	VM41399	VM41405	VM41405	VM41445
VM41509	VM41516	VM41516	VM41581	VM41581	VM41606
VM41606	VM41645	VM41645	VM42055	VM42055	VM42074
VM42098	VM42152	VM42152	VM42234	VM42234	VM42295
VM42474	VM42474	VM42717	VM42717	VM42740	VM42740
VM42909	VM43146	VM43146	VM43248	VM43248	VM43793
VM43793	VM44020	VM44020	VM44020	VM44091	VM44091
VM44091	VM44148	VM44176	VM44176	VM44176	VM44179
VM44179	VM44179	VM44249	VM44249	VM44249	VM44486
VM44607	VM44607	VM44607	VM45169	VM45169	VM45225
VM45312	VM45490	VM45490	VM45799	VM45799	VM45799
VM46150	VM46150	VM46150			

4.2 Service Level Information

The following PTFs, listed by ID, have been integrated into EREP.

UV43184	UV43184	UV43184	UV45852	UV45853	UV43184
UV43184	UV43991	UV45722	UV45723	UV45722	UV45723
UV45722	UV45723	UV45722	UV45722	UV45723	UV46026
UV46027	UV45873	UV45877	UV45853	UV46127	UV46128
UV48092	UV48093	UV46346	UV46347	UV46942	UV46943
UV47103	UV47104	UV48878	UV48879	UV48879	UV48878
UV48878	UV48879	UV90537	UV90538	UV48007	UV48008
UV48463	UV48637	UV48638	UV49344	UV49345	UV48808
UV48809	UV48878	UV48879	UV49083	UV49117	UV49170
UV49171	UV49240	UV49241	UV49249	UV49250	UV49261
UV49262	UV49294	UV49295	UV49263	UV49264	UV49354
UV49355	UV49361	UV49362	UV49381	UV49382	UV49407
UV49452	UV49467	UV49468	UV49598	UV49599	UV90559
UV90560	UV49626	UV49627	UV49915	UV49916	UV49948
UV49868	UV49962	UV49963	UV50055	UV50054	UV50070
UV50224	UV50225	UV50714	UV50715	UV50472	UV50473
UV50955	UV50795	UV50796	UV50881	UV50882	UV51199
UV51200	UV51439	UV51440	UV51441	UV51462	UV51463
UV51464	UV51491	UV51508	UV51509	UV51510	UV51559
UV51560	UV51561	UV90637	UV51805	UV51806	UV51807
UV52109	UV52110	UV52202	UV52214	UV52258	UV52259
UV52698	UV52699	UV52700			

4.3 Cumulative Service Tape

A cumulative service tape might be included with this program. This tape contains PTFs not incorporated into this program.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating EREP. The information is categorized into two areas, each of which describes a distinct system environment:

1. The system used to install the program (driving system).
2. The system on which the program is installed (target system).

5.1 Driving System Requirements

The following describes the environment of the driving system required to install EREP.

5.1.1 Operating System Requirements

You can use an IBM processor supported by VM/SP* or VM/XA* to install EREP.

5.1.2 Machine Requirements

There are no special machine requirements for the driving system.

5.1.3 Programming Requirements

There are no special programming requirements for the driving system.

5.1.4 DASD Storage Requirements

There are no special DASD storage requirements for the driving system.

5.2 Target System Requirements

The following describes the environment of the target system required for installation and use of EREP.

5.2.1 Operating System Requirements

EREP will operate on an IBM processor supported by VM/SP, VM/XA, or VM/ESA.

5.2.2 Machine Requirements

There are no special machine requirements for the target system.

5.2.3 Programming Requirements

When installing EREP in an XA system, the CPEREPXA MODULE must be on the system.

5.2.4 DASD Storage Requirements

The following table(s) list the libraries (data sets) and their attributes required for the installation of EREP. The space specified is the actual space required by EREP after the program is installed.

Since all software currently resides in data sets on DASD, detailed information for defining the DASD space required to install and use this program must be provided. Data sets fall into four categories:

Figure 6. Library Type Definition

TYPE	USAGE	NEW or EXISTING
NU	Used only by this program	New
NM	Used by more than one program	New
EU	Used only by this program	Existing
EM	Used by more than one program	Existing

Note: New indicates new in this release, and existing indicates exists in prior release.

Figure 7. Storage Requirements for Libraries

DATA SET OR LIBRARY NAME	TYPE	DSORG	RECFM	LRECL	OTHER INFORMATION
EREPLIB	EU	F	F	80	TXTLIB
ERFTRLIB	EU	F	F	80	TXTLIB
ERPTFLIB	EU	F	F	80	TXTLIB

5.3 Programming Considerations

There are no program, system, or special considerations for EREP.

6.0 Installation Instructions

6.1 Installing EREP

The EREPLIB TXTLIB being installed will replace the current EREPLIB TXTLIB.

The EREP Service Log, I5654260 SRVLOG35, will be updated by the Installation EXEC to reflect the latest feature applied.

Installation should be performed by the MAINT virtual machine to the 201 minidisk. VM/XA and VM/ESA (ESA feature) may require installation to the MAINT 190 disk. Any maintenance received for VM/XA and VM/ESA (ESA feature) modules HCPIFC or HCPREA require rebuilding the CPEREPXA MODULE.

Note: Filemodes E through O need to be free prior to the use of the installation exec. The disk you designate for receiving the EREP files will be accessed as the E disk. If your minidisk is already accessed as E, or the disk you want is accessed as something else when running the exec, the exec will fail.

6.1.1 Basic Steps

The procedure for installing EREP 3.5.0 is as follows:

1. You must have an A-disk that the Installation EXEC may write on. There are several files that are created during the installation which will be erased upon exit. This **MUST NOT** be the disk upon which you intend to install EREP.
2. You should install EREP from the MAINT userid to the MAINT 201 disk. If you install from a userid other than MAINT then you **MUST** release and detach, from that userid, the disk upon which you intend to install EREP before invoking the Installation EXEC. If you are installing in VM/XA and VM/ESA (ESA feature), verify that you have the latest copy of the CPEREPXA MODULE on the 190 disk. If not, contact VM service.
3. Define and format a temporary disk as your C-disk. This will be the target for the Installation EXEC and the Memo to Users. One cylinder of 3330 space (or an equivalent amount of space on another DASD) is required.
4. Unload the tape by typing the following:

```
VMFPLC2 LOAD * * C (EOF 2
```
5. Print and read the Memo to Users (I5654260 MEMO) before proceeding.
6. Invoke the Installation EXEC by typing the following:

```
I5654260
```

6.2 Activating the Function of EREP

See *EREP User's Guide and Reference*.

Appendix A. EREP Install Logic

The Install Logic for EREP follows:

```
User:
  def t33301 1922 1
System:
  DASD 0192 DEFINED 001 CYL
  Ready;
User:
  format 1923 c4
System:
  DMSFOR603R FORMAT will erase all files on disk C(192).
  Do you wish to continue?
  Enter 1 (YES) or 0 (NO).
User:
  1
System:
  DMSFOR605R Enter disk label:
User:
  tNNNN5
System:
  Formatting disk C
  1 cylinders formatted on C(192)
  Ready;
User:
  vmfplc2 rew
System:
  Ready;
User:
  vmfplc2 load * * c (eof 2)
System:
  LOADING.....
  I5654260 035003 C1
  I5654260 EXEC    C1
  END-OF-FILE OR END-OF-TAPE
  I5654260 MEMO C1
  END-OF-FILE OR END-OF-TAPE
  Ready;
User:
  i5654260
System:
  *****
  *** 5654260 - EREP
  *** VERSION 3 RELEASE 5 MODIFICATION 0
  *** Do you wish to install this product now?
  *** Enter 1 (YES) or 0 (NO).
User:
  1
System:
  *****
  *** The service minidisk will be linked using the
```

```

*** following default values:
***
***   userid           = MAINT
***   minidisk address = 201
***   password         = ALL      ("W" link mode)
***
*** Change any of the above parameters ?
*** Enter 1 (YES) or 0 (NO) or 111 (QUIT)

```

User:

0

System:

```

*****
*** Loading files to MAINT 201 disk..
*****
*****
*** All necessary EREP files have been loaded.
*****
*****
*** Are you installing on XA or ESA system?
*** Enter 1 (yes) or 0 (no).

```

User:

1 (If you are installing on an XA or ESA system you will not receive the next three messages)

0

```

*****
*** Loading DMSIFC... (370 only)
*****
*****
*** CPEREP module successfully created (370 only)
*****
*****
*** Copying files to MAINT 201 (370 only)
*****
*****
*** 5654260 Verification in process..
*****
*****
*** 5654260 EREP
*** Installation and verification completed successfully
*****
*****
*** Exiting 5654260 Installation Exec
*****
Ready;

```

Notes:

1. Any DASD may be substituted for 3330.
2. Any unused CCU may be substituted for 192.
3. Use the CCU which you specified in step 2.
4. Must be the letter "c."
5. Any four characters of your choosing.

Reader's Comment Form

EREP VM Version 3 Release 5 Modification Level 0
Program Directory Response Form

To better enable us to reflect your needs in future program directories, please complete the following table, entering a number in the range of one (for very poor or very low) to five (for very good or very high).

Completeness _____
Accuracy _____
Clarity _____
Format _____
Usefulness _____

Please provide specific comments below. Attach additional sheets if necessary.

Name _____
Company _____
Address _____
Phone or FAX number _____

After completing the evaluation, detach this page and send via FAX (602-799-6487) or first class mail to:

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