



# EDIT (TSTVS) USERS GUIDE

VERSION 3.4

## Abstract

EDIT is a console editor in MVS, if no subsystems are available.

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# 1.0 Console monitor TSTVS version 3.4

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## 1.1 Introduction

TSTVS is developed for editing PDS members if TSO/VTAM is not available. It is a product of Rob Prins. TSTVS communicates with the MVS master console operator.

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## 1.2 Input and output

INP01 and OUTP01. Both DD-names are dynamically allocated.

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## 1.2 Startup of TSTVS

At startup, TSTVS asks for an authorized UserID + a password (message EDT301A and EDT302A). With this UserID and password, TSTVS will perform a RACROUTE REQUEST=VERIFY/RACINIT with terminal name=LUTSTVS.

After verification of the UserID + password + terminal, the resource \$TSTVS in the FACILITY class will be checked. In A RACF-system the user should be connected to this profile. In an ACF2 system, a generalized resource should have been created. The resource type must be defined in the GSO CLASMAP record (e.g. SAFMAPS(FAC/FACILITY)).

If no RACF or ACF2 is active (or stopped), TSTVS will bypass the security check and will ask for the program password (message EDT310A). Refer to the responsible systems programmer for the correct password.

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## 1.3 Allocating datasets

If you start TSTVS the message EDT200A Enter command or 'HELP' appears after the security check.

If you reply EDT200A with 'ALLOC' the monitor prompts with 'EDT100A Enter dataset name or 'CANCEL', which should be replied with a dsname of max. 44 bytes or the word 'CANCEL'.

If the reply is 'CANCEL', the ALLOC function will be terminated and messages EDT198I and EDT200A will appear.

After this reply to the question 'EDT101A Enter volume serial or 'U' appears, which should be replied with a max 6 positions long volume number or 'U'. If you reply 'U' the catalog will be searched.

If these two replies are ok, the message 'EDT103I Allocation of dataset is successful' will appear, otherwise a suitable error message will be produced. (see messages)

If you have finished with this library, you can allocate another library with ALLOC. (The previous library is automatically freed). Other possible replies on message EDT200A are.

### COMMAND FUNCTION

RENAME	Rename of a data set.
A member name	Create a member.
AN member name	Create a member including line numbers.
U member name	Update of a member.
UN member name	Update of a member including line numbers.
D member name	DELETE a member from the library
R member,newname	RENAME a member in the library into 'newname'
PDSLIST	List the members of the entire library.
PDSLIST,'key'	Member list of the library starting with member, whose name atarts with 'key'.

EOJ	Terminate the console monitor.
HELP	Gives help information about the commands. Message EDT205I will be given.

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## 1.4 Renaming datasets

### 1.4.1 Rename a cataloged dataset

The reply on message EDT200A enter command or 'HELP' should be replied with 'RENAME'. After this, reply EDT100A Enter dataset name or 'CANCEL' with a name of a cataloged dataset and reply EDT101A enter volume serial or 'U' with an U'.

Now reply to the next message EDT106A Enter new dataset name or 'CANCEL' with a newname. This name should not exist in any catalog.

After RENAME, the message EDT199I Rename of dataset successful, or suitable error message should appear.

### 1.4.2 Rename a not cataloged dataset

The only difference between RENAME of a not cataloged dataset and a cataloged dataset (see previous chapter) is the reply on message EDT101A.

This message should be replied with a valid and online volume serial number. After replying to message EDT106A, the dataset will be renamed on that volume.

**Note:**

If message EDT101A has been replied with a volume serial number and the dataset is cataloged, the catalog entry is NOT renamed.

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## 1.5 List the directory of the PDS

A listing of the directory of the allocated PDS will be displayed, if the reply on message EDT200A is 'PDSLIST' or 'PDSLIST,key'.

If the reply is 'PDSLIST', a list of the directory is displayed upon the console.

If the reply is 'PDSLIST,key', a list of directory-entries is displayed, starting with the member name beginning with 'key'. When 'key' is not present the list begins with the next higher key.

### **Note:**

If you enter 'PDSLIST' or 'PDSLIST,key' and there are more than 16 lines, the message **EDT017A Should TSTVS continue this function? Reply Y or N** appears.

If you reply with 'Y' the function continues. With reply 'N', TSTVS will terminate with message EDT018I (see messages and codes).



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## 1.6 Create a member

Message 'EDT200A Enter command or 'HELP' must be replied with 'A member name' or 'AN member name' If the specified name is already present in the library, the data can be overwritten.

Now appears the message 'EDT003A Enter data, 'SAVE' or 'SUBMIT''

The 'data' needs no comment.

R xx,SAVE is to save the data in the member The messages EDT026A and EDT200A will be given.

R xx,SUBMIT is to save the data and submit the job to the JES2 internal reader.

After the action EDT200A appears.

If message EDT003A has been replied with 'SAVE' or 'SUBMIT', the user will be prompted with the message: 'EDT026A enter new name to save your workarea or reply 'U' to save your workarea in member xxxxxxxx'. If you reply with a 'new name' the member is saved under that name. With reply 'U' the member is saved under the name, which has been replied to on the message EDT200A.

If the reply on message EDT003A has been replied with a input statement, then the message 'EDT004A Enter sequence number' appears, if the message EDT200A has been replied with 'AN member name' After these messages the message 'EDT003A Enter data ..' appears again to type in your next statement.

If all the statements are typed in, you can reply to message EDT003A with 'SAVE' or 'SUBMIT'.

After 'SAVE' or 'SUBMIT' appears the first message EDT026A to save your member and then message EDT200A.

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## 1.7 Update a member

If the message 'EDT200A Enter command' has been replied with 'U member name' or 'UN member name', you get into the 'subcommand mode' of TSTVS.

The subcommand mode is announced with the message 'EDT005A Enter subcommand OR 'HELP'.

The subcommands are:

### 1.7.1 LIST XXXX-YYYY

With this subcommand you can list the changed contents of the member. The first 55 bytes of each record are displayed.

If you enter only 'LIST' the entire member is listed.

With 'LIST xxx' (xxx represents a single line number) you get a display of that particular line. With 'LIST xxxx-yyyy' (xxxx-yyyy represents a line number range) you get a display of that line range.

#### **Note:**

If you list more than 16 lines, the message 'EDT017A should TSTVS continue this function? reply to Y or N' will be given. With reply 'Y' the function continues, with reply 'N' the function terminated with message 'EDT018I function terminated by operator' (see messages).

The alias of 'LIST' is 'L'.

### 1.7.2 XLST XXXX-YYYY

This subcommand is the same as LIST and has the same operands, The difference is that the entire record will be displayed (80 positions). Each record will be displayed in two lines. Line 1 displays columns 1-40. Line 2 displays columns 41-80.

### 1.7.3 PRINT 'class'

With this function the changed contents of the member is printed in a spin-off SYSOUT=class dataset. Default is SYSOUT=C.

### 1.7.4 SUBMIT

With this subcommand, the changed contents of the member have been submitted.

to the JES2 internal reader.

### 1.7.5 RENUM

To renumber the line numbers in columns 73-80 starting with 00000010 and an increment of 10.

The user will be notified with the message 'EDT013I dataset has been re-numbered' after successful RENUM.

### 1.7.6 UNNUM

With this subcommand you can remove the line numbers in columns 73-80. The line numbers are replaced by blanks.

### 1.7.7 I XXXX

With this subcommand you can insert a line in the member. xxxx represents a line number. After this line the line will be inserted. If you omit the line number in the 'I' subcommand the line is inserted before line 1.

After the subcommand the message 'EDT003A Enter data....' appears to type in the data of the inserted line eventually followed by message 'EDT004A Enter sequence number' (Depends on reply 'U member name' or 'UN member name' on message EDT200A Enter command..).

### 1.7.8 D XXXX OR D XXXX-YYYY

Line xxxx or linenummer range xxxx-yyyy are deleted from the member.

### 1.7.9 R XXXX

With this subcommand you can duplicate the line specified with 'xxxx'. If you omit the linenummer ('xxxx') in the subcommand the first line is repeated.

### 1.7.10 V ON/OFF

V ON is list changed line after the 'C' subcommand, V OFF is don't list after the 'C' subcommand.

### 1.7.11 END

Terminate 'subcommand mode'. EDT200A appears.

**Note:**

If you have made updates and you haven't saved, the message 'EDT025A \*WARNING\* nothing saved, enter 'SAVE' or 'END' will appear. If you enter 'SAVE', the member will be saved. With 'END' the data will not be saved

### 1.7.12 EOJ

Terminate TSTVS

**Note:**

If you have made updates and you haven't saved, the message 'EDT025A \*WARNING\* nothing saved, enter 'SAVE' or 'END' will appear. If you enter 'SAVE', the member will be saved. With 'END' the data will not be saved.

### 1.7.13 HELP

After this subcommand, a brief description of the subcommands will be displayed (message EDT014I).

### 1.7.14 C (CHANGE)

The following formats are available:

C xxxx,aaa\$bbbb\$. The character string symbolic assigned by 'aaa' is replaced by the character string symbolic assigned by 'bbbb' (lengths could be unequal)

C xxxx,\$bbbb\$ The character string 'bbbb' is inserted at the beginning of the line. The rest of the data is shifted. (Truncation possible).

C xxxx,aaa\$\$ The character string 'aaa' is removed from the line. The rest of the data will be shifted.

The 'C' subcommand is used to replace a character string in a certain line, which is represented by 'xxxx'.

If 'xxxx' = ALL, all lines will be searched, and all occurrences of the string will be changed.

The delimiter "\$" should be coded as shown.

### 1.7.15 F \$STRING\$

Find the specified string in the dataset. If found, the line in which the string is found will be displayed. If only an 'F' is entered, a repeat find of a previous string will be done; the next occurrence of 'string' will be displayed.

The delimiter "\$" should be coded as shown.

### 1.7.16 ADD

With the ADD subcommand you can add lines at the end of the member. After the 'ADD' subcommand the message 'EDT003A Enter data....' appears; this message allows you to add data.

The subcommand mode is ended, and the method is similar to the creation of a new member (See previous chapter).

### 1.7.17 XXXX

xxxx represents a line-number, which is totally replaced.

The message EDT003A and eventually the message EDT004A appears, enter an input statement and a line number.

After the execution you are back in 'Subcommand' mode.

If you reply EDT003A with 'SAVE', or 'SUBMIT' the member is saved and the indicated action is executed, the message EDT200A Enter command ... appears and the subcommand mode is ended.

### 1.7.18 SAVE

After this subcommand the message 'EDT026A Enter new name of reply 'U' to save your workarea in member xxxxxxxx' appears. By replying to this message, the member is saved, and the subcommand mode is ended. EDT200A appears.

### Remarks

The line numbers in the operands of the subcommands are generated by the program TSTVS and are max four positions long (Leading zeroes may be omitted). These numbers are not physically in the data and are visible if you enter a 'LIST', 'XLST' or 'PRINT' subcommand. The connection between line number and line changes when you enter a 'I', 'R' or 'D' subcommand. (The first line is always 1 and the increment is always 1).

The maximum number of lines is 3999.

During the updating of a member with more than 3999 lines, the first 3999 lines are read and saved. (be careful).

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## 1.8 Messages and codes

There are four different kinds of messages:

- Informational messages, the message id = EDTxxxI.
- Action messages, the message id = EDTxxxA, which are described in the previous chapters.
- Error messages, the message id = EDTxxxE.
- Disastrous messages, the message id = EDTxxxD.

### 1.8.1 Messages given by the TSTVS editor

#### **EDT001I TSTVS version 3.4 - MM/DD/YY started**

System action: After the start of TSTVS, this message will be given. It's a non deletable message. This message will be deleted if TSTVS is stopped with reply EOJ.

#### **EDT003A Enter data, 'SAVE' or 'SUBMIT'**

Programmer response: Reply to this message as indicated.

#### **EDT004A Enter sequence number**

Programmer response: Reply to this message with a valid sequence number. This message will only appear, if you edit numbered images (reply AN member or UN member on message EDT200A)

#### **EDT005A Enter subcommand or 'HELP'.**

Programmer response: This message has many reply to possibilities. See chapter 'Update a member' of the possible replies.

#### **EDT006E Invalid line-number, reply again**

System action: One of the following has occurred:

- Not numeric line number.
- Line number higher than 3999.
- Try to delete line 0000.
- Try to update line 0000.
- Line number 2 is less than line number 1 in 'LIST' or 'D' subcommand.
- No existing subcommand on message 'EDT005A Enter subcommand or 'HELP'.

#### **EDT007E Parameter error, defaults taken ROUTCDE=(2,3)**

System action: The program TSTVS can be started with a parm, which specifies the routing code for all the messages. When the routing code in the parm is not 1 - 16, the above message will appear, and the defaults are taken.

**EDT008E Seq. number not numeric, reply again**

System action: Reply on EDT004A is in error.

**EDT010E Member-name to be updated not present. Reenter**

System action: This message appears when you entered 'U member name' of 'UN member name' on message 'EDT200A Enter command' and the member does not exist.

Programmer response: After the error message EDT010E the message EDT200A Enter command..... appears, enter the correct member name.

**EDT011I Member xxxxxxxx (not) DELETED/RENAMED (Returncode rrrr)**

System action: This message appears after reply 'D member name' or 'R member name,new name' on EDT200A. If there is an error condition during deletion of the member,

the member is not deleted/renamed, and a return code appears.

After message EDT011I appears message EDT200A.

**EDT012E Maximum lines in member, insertion impossible**

System action: The maximum number of lines is present in the work area during an 'I' or an 'R' subcommand. The above message is displayed, and the insert function is terminated.

**EDT015E String(s) not found**

System action: One of the following errors has occurred:

- False character string in 'C' subcommand.
- Character string longer than 24 positions.
- Delimiter (dollar sign) forgotten in 'C' subcommand.
- Text not found in 'F' subcommand.

**EDT017A Should TSTVS continue this function, Reply Y or N**

System action: This reply appears if the output of the command 'PDSLIST' and the subcommands 'LIST' and 'XLST' contain more than 16 lines.

Programmer response: Reply as indicated.

**EDT018I Function terminated by operator**

System action: Message 'EDT017A should TSTVS continue this function, reply 'Y' or 'N' replied with 'N'

**EDT019E Dyn. Alloc Errorcode xxxx Infocode yyyy**

System action: This message can appear:

- After replying to 'SUBMIT' on message EDT003A. The allocation of the JES2 INTRDR dataset has failed. TSTVS tries to submit via the start of the RDRTST reader procedure.
- After replying 'PRINT' on message EDT005A. The print function is terminated.

- Programmer response: The error code and info code are located in the manual 'MVS/ESA Application Development Guide'.

#### **EDT021I Job jvjvjvj submitted**

System action: This message appears after successful submission of a job.

#### **EDT022I Verification turned ON/OFF**

System action: This message appears after the 'V ON' or 'V OFF' subcommand.

#### **EDT023I XXXX lines printed in SYSOUT='class'**

System action: This message appears after a successful 'PRINT' subcommand.

#### **EDT024I Member xxxxxxxx successfully saved**

System action: This message appears after a successful 'SAVE' (xxxxxxx is the member name replied on message EDT200A or EDT026A).

#### **EDT025A \*WARNING\* Nothing saved, enter 'SAVE' or 'END'**

System action: The operator had replied 'EOJ' or 'END' on message EDT005A and updates are made.

Programmer response: Reply SAVE to save the member or END to ignore the changes.

#### **EDT025E Invalid character string**

System action: End delimiter ('\$') of string in 'F' subcommand not found.

#### **EDT026A Enter new name to save your workarea or reply 'U' to save your workarea in member 'member'**

System action: This message appears after subcommand 'SAVE'.

Programmer response: Reply as indicated.

#### **EDT026E Invalid repeat find, no string found**

System action: An 'F' subcommand entered without operands and without a valid previous 'F string' subcommand.

#### **EDT027D ABENDxxx detected, retry successful**

System action: TSTVS had abended for some reason. The recovery routine entered has run successfully and TSTVS is continuing in the same mode as before the abend (message EDT200A or EDT005A will be given)

Programmer response: If xxx is a severe completion code (like 0Cx abends), report this failure to the responsible systems programmer.

#### **EDT028E Allocation Subsystem dataset not allowed**



System action: TSTVS is running as a 'subsystem' It's SSVT has been defined in SYS1.PARMLIB(IEFSSNxx). This message will be issued during a 'PRINT' or a 'SUBMIT' subcommand.

## 1.8.2 Messages of the ALLOCATE/RENAME processor

### **EDT100A Enter dataset name or 'CANCEL'**

System action: After replying to 'ALLOC' or 'RENAME' on message EDT200A appear this message.

Programmer response: Reply with a valid dataset or CANCEL to terminate RENAME or ALLOC.

### **EDT101A Enter volume serial or 'U'**

System action: This message appears after reply on message EDT100A.

Programmer response: Reply with a volume serial to allocate or rename a not cataloged or a 'U' for a cataloged dataset.

### **EDT102E ALLOCATION/UNALLOC Errorcode=xxxx Infocode=yyyy,R15=cccc**

System action: Allocation or unalloc failed of the library. refer to 'MVS/ESA APPLICATION DEVELOPMENT GUIDE' concerning the error- info- and return codes. After this error message, TSTVS try to allocate/unallocate again.

### **EDT103I Allocation of dataset successful**

System action: This message appears after a successful 'ALLOC' command.

### **EDT104E Dataset not on volume**

System action: This message is caused by a wrong reply on message EDT101A ENTER VOLUME SERIAL. After this message EDT104E, TSTVS asks again for dataset name and volume.

### **EDT105E Dataset not in catalog**

System action: This message appears after replying 'U' on message EDT101A Enter volume serial or 'U'. Enter the correct dataset name or specify volume serial.

### **EDT106A Enter new dataset name or 'CANCEL'**

Programmer response: Reply to this message with a valid non-existing dataset name.

### **EDT107E Newname already cataloged**

System action: The user enters a new name, which is already cataloged. TSTVS asks again for a new name (message EDT106A)

### **EDT108E Newname already on volume**

System action: The newname entered has been found on the volume.

Programmer response: Reenter

**EDT109E RENAME failed, RC=XXXX, STATUSCD=XX**

System action: An error occurred during RENAME processing.

Programmer response: Refer to IBM manual: MVS/ESA DFP Systems Programmers Reference for the return and status code. Sometimes MVS/ESA will give message IEF614I.

**EDT110E (un)catalog failed, RC=xxxx**

System action: An UNCATALOG of the 'old name' or a CATALOG of the 'new name' during RENAME processing has failed.

Programmer response: Refer to MVS/ESA DFP System Programmer Reference (SC26-4567), concerning the return code.

**EDT111E UCBLLOOK failed RC=xxxx,VOL=vvvvvv**

System action: This error can occur during renaming of a not cataloged dataset (message EDT101A has been replied to with a volume serial number). This is a severe error.

Programmer response: Report this error to the systems programmer responsible.

**EDT198I Function canceled by operator**

Programmer response: Message EDT100A or EDT106A has been replied with 'CANCEL'.

**EDT199I Rename of dataset successful**

System action: A successful RENAME has been executed.

### 1.8.3 Messages of the command processor

**EDT200A Enter command or 'HELP'**

Programmer response: The possible replies on this message are:

- ALLOC. Allocate a dataset.
- RENAME. Rename a dataset.
- PDSLIST,(key). LISTPDS of the dataset.
- EOJ. Terminate TSTVS.
- A member. Add an unnumbered member.
- AN member. Add a numbered member.
- U member. Update an unnumbered member.
- UN member. Update a numbered member.
- D member. Delete a member.
- R member,newname. Rename a member.

**EDT202E No dataset allocated – Reply 'ALLOC'**

System action: This message is displayed, if you entered 'A(N) member name', 'U(N) member name', D or R member name or 'PDSLIST' and the library is not allocated by a previous 'ALLOC' command.

**EDT203E Command invalid, Reenter**

System action: This message appears after a non-existing command on message EDT200A.

**EDT204E Member name invalid, reenter**

System action: This message is caused by an invalid member in the commands on message EDT200A.

## 1.8.4 Messages of the security routine

**EDT301A Enter name of an authorized user or reply EOJ**

Programmer response: Reply to this message with an RACF or an ACF2 UserID, which has access to the \$TSTVS resource in the FACILITY class or reply EOJ to exit TSTVS.

**EDT302A Enter password of this authorized user**

Programmer response: Reply with a valid password of the user specified on message EDT301A.

**EDT303E No security system active bypass userid check**

System action: ACF2 or RACF is not active or stopped.  
TSTVS will ask for its own password (message EDT010A)

**EDT304E userid has no access to the 'TSTVS' program**

System action: The user supplied has no access to the \$TSTVS profile in the FACILITY class or no access to the ACF2 Generalized resource.  
Messages EDT301A and EDT302A are issued again for retry. If two retries are done, TSTVS will terminate.

**EDT305E RACINIT failed for user=uuuuuuuu RC=rrrr, RACF RC=yyyyy**

System action: An error occurred during the RACROUTE REQUEST=VERIFY  
Programmer response: Contact the systems programmer responsible.

**EDT306W Userid=uuuuuuuu, unauthorized password**

System action: Message EDT302A had been replied with the wrong password.  
Programmer response: Reply messages EDT001A and EDT002A again for a correct userid/password combination.

**EDT307W Userid=uuuuuuuu, password has been expired**

Programmer response: Retry with another UserID + password. Use, for example, TSO to create a new password for that user.

**EDT309I Userid has been verified and accepted**

System action: The supplied UserID and password is authorized. You are granted to enter the world of TSTVS.

**EDT310A enter TSTVS password**

System action: This message appears if neither RACF nor ACF2 is active.

Programmer response: Refer to the systems programmer for the correct password or (re)start ACF2/RACF.

---

## 1.9 JCL needed to execute TSTVS

```
//EDIT      PROC PRM=2  
//TSTVS     EXEC PGM=TSTVS,PARM=&PRM,TIME=1440 ** routing code ***
```

TSTVS can be started on the console with:

```
S EDIT,PRM=routcde
```

The procedure EDIT is in the SYS1.PROCLIB and is defined in SYS1.PARMLIB(IEFSSNxx).

For older systems like MVS38J, update module SGIEFOSS to add subsystem EDIT, or update and apply usermods ZUM0004 or ZJW0007.