



**CBL Software
Install Guide for VM/CMS and VM/VSE Systems**

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CBL Software Install Guide for VM/CMS and VM/VSE

Documentation Notes

This document describes the steps required to install CBL products, SELCOPY and CBLVCAT, on a VM/CMS system, and optionally on an VSE guest machine. It also details configuration of the CBLi interactive environment for SELCOPY and CBLVCAT.

CBL Software Install Guide for CMS Systems may be obtained from the CBL web pages at:

<http://www.cbl.com>

Related documentation including the **SELCOPY**, **CBLVCAT** and **CBLi** User Manuals and New Features are also available from this web site.

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At the time of publication, this document is believed to be correct. CBL does not warrant that upward compatibility will be maintained for any use made of these program products to perform any operation in a manner not documented within the user manual.

Section 01: Introduction

This guide describes the install of CBL Software on z/VM and VM/ESA IBM mainframe operating systems for use in CMS, and then optionally to run as a VTAM application on an VSE guest machine. Please read it carefully and **contact CBL if you need help**.

CBL Software products, SELCOPY and CBLVCAT, are distributed as a single, downloadable install package which also includes the CBL Interactive (CBLi) environment. CBLi is eligible for install as part of the SELCOPY and/or CBLVCAT licence agreement.

Previously, each software item was installed via separate procedures that had to be carefully co-ordinated to avoid repetition of common steps.

Install of CBL software products to CMS does not use VMSES/E but is driven by the installers responses to the CBLINSVM EXEC procedure.

Following install, the executables, help files and configuration files all reside on the same install target disk. This disk should be accessed at least Read Only by all CMS users who wish to use the CBL software on your system.

Section 02: DASD Storage Requirements

The install may be actioned by any user with Read/Write access to the install target disk.

CBL software is installed to a single minidisk or SFS directory. The CBL product install disk must be attached Read/Write to the installer's userid as any virtual address and, for the purpose of the install procedure only, accessed as drive letter A.

A minimum of 9900 * 4K blocks (approx. 56 cylinders - 3390 DASD) are required for the install. However, CBL recommends that a you use a minidisk large enough to accomodate future growth of configuration files and additional distributed macros and help file. (64 cylinders - 3390 minidisk is used at CBL).

Any new install of CBL software must not replace previously installed, production versions of the software until you are ready to promote it into production. Therefore, install should be performed to a new disk or one not containing the production version of the software.

Section 03: Configuration Files

CBLNAME

CBL software products, SELCOPY and CBLVCAT (both including CBLi), each load the CBLNAME module at runtime to determine configuration options, in particular:

1. The fileid of the SELCOPY system wide configuration file (SELCNAM).
2. The fileid of the CBLi system wide configuration file (CBLiINI).
3. The CBLVCAT password and operational date range licence information.

SELCNAM

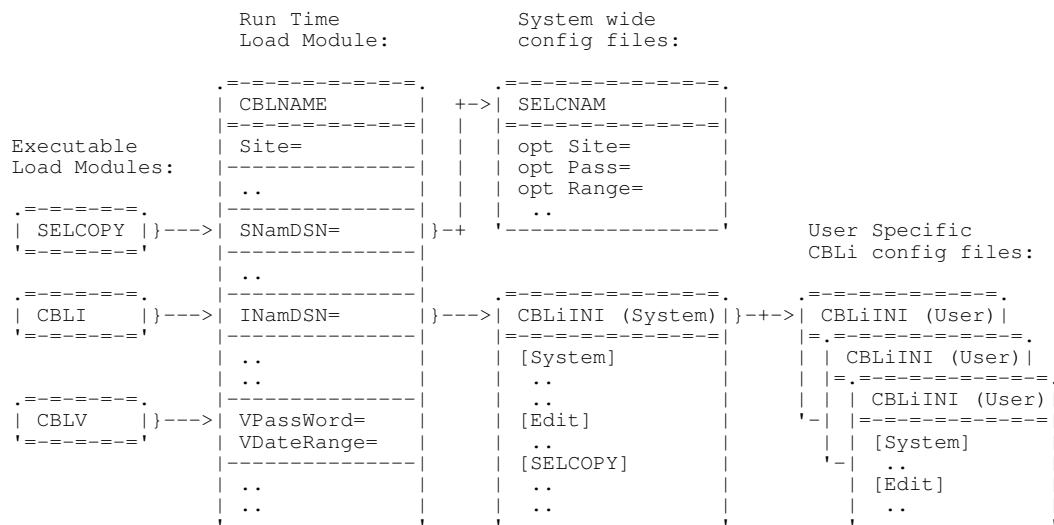
The SELCNAM data set is a plain text file containing system wide configuration options for SELCOPY that override equivalent options set in CBLNAME.

Most importantly, SELCNAM contains the SELCOPY site, password and operational date range licence information required for successful execution.

CBLiINI

The CBLiINI (System) data set is a plain text file containing system wide configuration options for CBLi.

User specific CBLi configuration files may be defined by each user. The fileid of each user CBLiINI file is identified based on the fileid of the system CBLiINI file.



Section 04: Software Install & Configuration

Step 1: Download and Unzip the CBL Software Bundle

The CBL software bundle is available to download from the CBL web site at:

<http://www.cbl.com/cbldl.html>

Alternatively, the install binary and accompanying documentation (see contents of .zip file below) may be downloaded directly to the user's CMS machine from CBL's FTP site. (See Example 2. in [Step 3.](#))

The download file is in a ZIP format which should be expanded using an unzip utility (e.g. PKZIP, WinZip, etc.) Extract the contents of the .zip file to a temporary directory. The following directories are included:

\MainFrame

Dataset Name	Description
CBL_yyyymmdd_CMS.BIN	The Install binary data for VM/CMS.
CBL_Install_VM.PDF	This Installation Guide.
SELCOPY_2.01_New_Features.PDF	New Features document for SELCOPY Rel 2.01
SELCOPY_2.02_New_Features.PDF	New Features document for SELCOPY Rel 2.02
CBLVCAT_2.12_New_Features.PDF	New Features document for CBLVCAT Rel 2.12
Readme.TXT	Additional information. (e.g. Zaps created since distribution.)

\WindowsPC

FileId	Description
readme.wnt	Installation instructions and general info on SELCOPY/WNT for Microsoft Windows.
snf%S%.txt	SELCOPY New Features for the %S% Release. i.e. Release Notes showing changes and corrections implemented.
slc%S%_B%.exe	SELCOPY main executable.
slc%S%_B%ca.dll	slccall Dynamic Link Library. Primitive slccall Shared Object which is loaded dynamically at execution time if a CALL stmt is used.
slccall.c	C Source code for the "slc%S%ca.dll" Shared Object which you can modify to add your own CALL rtns, then recompile and link, to create your own "slccall.dll" Dynamic Link Library.
slccall.h	C Header info for the slccall.c source.
selcopy.nmx	Original skeleton for "selcopy.nam" file. Copy this to create your own "selcopy.nam" file.
selcopy.msg	Editable text file of SELCOPY Error messages, which is required at run time. It is release independent.

Step 2: Install SELCOPY/WNT for MS-Windows PC execution

This step is applicable to install of **SELCOPY**.

A number of SELCOPY for Windows PC licenses are included as part of the SELCOPY Mainframe product package. A separate license key for SELCOPY/WNT will have been provided along with Mainframe license keys.

Please follow the instructions in the `\WindowsPC\readme.wnt` text file to install SELCOPY/WNT on your PC.

Step 3: FTP the Product Bundle to CMS

Attach and access the install disk as A then re-access the existing A disk as a different disk letter. e.g.

```
ACC vdev A
ACC 191 B
```

Note:

1. Install disk A must not contain your production versions of SELCOPY, CBLVCAT and/or CBLi.

Now use your local file transfer methods (e.g. IND\$FILE, FTP) to import CBL_yyyymmdd_CMS.BIN into your VM system.

CBL_yyyymmdd_CMS.BIN is a binary file that contains the machine readable installation data in fixed length 80 byte EBCDIC records and is used as input to the CMS READCARD utility. i.e. ":READ" statements and 80 byte record images. The CBL software program objects, macros and help files are generated from this file.

CBL_yyyymmdd_CMS.BIN must be transferred as a **binary** object with **RECFM F** and **LRECL 80**.

Subsequent install steps assume that CBL_yyyymmdd_CMS.BIN was transferred to CMS as fileid 'CBLCMS INSTDATA A'.

Example 1.

In the following, PC Windows FTP client is used to transfer 'CBL_20061107_CMS.BIN' from the PC 'c:\tmp\cbl' directory via the VM host FTP server to user CBLPROD's 103 minidisk.

```
ftp> lcd c:\tmp\cbl
      Local directory now C:\tmp\cbl.
ftp> cd CBLPROD.103
      250-Working directory is CBLPROD 103 (ReadOnly)
      250 for write access, send 'ACCT minidisk-mult-password'
ftp> literal acct MWPASS
      230 Working directory is CBLPROD 103
ftp> binary
      200 Representation type is IMAGE.
ftp> literal site fixrecfm 80
      200 Site command was accepted.
ftp> put CBL_20061107_CMS.BIN CBLCMS.INSTDATA
      200 Port request OK.
      150 Storing file 'CBLCMS.INSTDATA'
      250 Transfer completed successfully.
ftp: 12051760 bytes sent in 13.59Seconds 886.55Kbytes/sec.
```

Example 2.

The following demonstrates use of the CMS FTP client to transfer the install binary file 'CBL_20061107_CMS.BIN' directly from CBL's FTP server to fileid 'CBLCMS INSTDATA' on the user's A disk. Note that logon to the CBL FTP server is anonymous and so does not require a password. FTP server directory names and fileids are case sensitive.

```

Ready; T=0.01/0.01 11:18:43
FTP FTP.CBL.COM
VM TCP/IP FTP Level 440
Connecting to FTP.CBL.COM 80.177.178.195, port 21
220-
220-### Warning ### -----
220- All activity on this ftp server is logged and regularly checked.
220- Any attempt to execute illegal services or to take down this server
220- or its services, will be reported to the appropriate legal authorities.
220-----
220-
220
USER (identify yourself to the host):
ANONYMOUS
>>>USER ANONYMOUS
331 Please specify the password.
Password:

>>>PASS *****
230 Login successful. Have fun.
Command:
CD CBLCMS
>>>CWD CBLCMS
250 Directory successfully changed.
Command:
BINARY F 80
>>>TYPE i
200 Switching to Binary mode.
Command:
LS
>>>TYPE a
200 Switching to ASCII mode.
>>>PORT 192,168,1,33,4,248
200 PORT command successful. Consider using PASV.
>>>NLST
150 Here comes the directory listing.
CBL Products Installation Guide (CMS).pdf
CBL_20061107_CMS.BIN
readme.txt
226 Directory send OK.
>>>TYPE i
200 Switching to Binary mode.
Command:
GET CBL_20061107_CMS.BIN CBLCMS.INSTDATA.A
>>>PORT 192,168,1,33,4,249
200 PORT command successful. Consider using PASV.
>>>RETR CBL_20061107_CMS.BIN
150 Opening BINARY mode data connection for CBL_20061107_CMS.BIN (12051760 bytes).
3037840 bytes transferred.
226 File send OK.
12051760 bytes transferred in 18.273 seconds. Transfer rate 310.91 Kbytes/sec.
Command:
QUIT
>>>QUIT
221 Goodbye.
Ready; T=0.90/1.78 11:21:38

```

Step 4: Extract the CBL Install files

Upload 'CBLICMS INSTDATA A' to your VM userid's RDR queue and ensure that it is first file in the queue.

```

SPOOL PUN *
PUNCH CBLCMS INSTDATA A (NOH
CP ORDER RDR nnnn (where nnnn is the assigned file number)

```

Receive the logical files to your A disk, using the NOPROMPT option to bypass the prompt to receive or reject each file.

```

READ * * A (NOPROMPT

```

The following files are written to the A disk.

Filename	Filetype	Description
@REPORT	TXT	Reports the build level information for CBLi. This file is a record of the level of CBLi that was installed.
SELCMEMO	TXT	SELCOPY for CMS Technical Brief.
SMDB2	TXT	SELCOPY SQL processing for DB2.
SMSUM	TXT	SELCOPY Control Card Summary.
SMERR	TXT	SELCOPY Error Messages.
CBLNAME	MACRO	The CBLNAME Assembler macro.
APEEINIT	TEXT	The CBLi initialisation object deck.
APEETERM	TEXT	The CBLi termination object deck.
CBLAVARL	TEXT	The CBLi RECFM=V file install utility program object deck.
CBLAVCII	TEXT	The CBLVCAT Interactive (VCI) SVC install utility program object deck.
CBLDLL	TEXT	The CBL Dynamic Link Library object deck.
CBLI	TEXT	The CBL Interactive control program object deck.
CBLVDUMP	TEXT	The CBLi DUMP subtask object module. (MVS Only)
CBLVIMSS	TEXT	Program invoked by DFSRR00 for interactive SELCOPY execution with IMS/DL1.
CBLVIMST	TEXT	The CBLi IMS/DL1 interface subtask control program object module.
CBLVSQL0	TEXT	The CBLi SQL interface subtask control program object module.
CBLVSVC	TEXT	The CBLVCAT Interactive (VCI) SVC object deck.
CBLXREXX	TEXT	The CBLi REXX interface subcommand environment control program object deck.
SELC202	TEXT	The SELCOPY Rel 2.02 object deck.
SELCOPLE	TEXT	The SELCOPY Language Environment Interface.
SELCOPQL	TEXT	The SELCOPY DB2 SQL Interface.
SELCOPQX	TEXT	DBRM source for SELCOPY DB2 plan bind.
CBLV212	TEXT	The CBLVCAT Rel 2.12 Build 156 object deck.
ULCBLE	TXT	Unloaded sample CBL macros. (Expanded using CBLAVARL.)
ULCMX	TXT	Unloaded sample CMX files. (Expanded using CBLAVARL.)
ULHELP	TXT	Unloaded CBLi help files. (Expanded using CBLAVARL.)
CBLINSVM	EXEC	CBL software install procedure.
CBLNASM	EXEC	CBLNAME assembly procedure. (Use if HLASM not installed.)
SELC	EXEC	Base Invocation EXEC for SELCOPY.
SELCCKD	EXEC	SELCOPY to read a file on a guest MVS/VSE CKD disk.
SELCCTL	EXEC	Base Invocation EXEC for SELCOPY where SYSIN is file type CTL.
SELCCOMP	EXEC	SELCOPY to compare records in 2 files and report mismatches.
SELCSKEL	SELCCOMP	SELCCOMP EXEC included SELCOPY control file - Skeleton.
SS800700	SELCCOMP	SELCCOMP EXEC included SELCOPY control file - Bypass Acceptable Differences.
SELCFBA	EXEC	SELCOPY to read a file on a guest VSE FBA Disk. (CMS DOS ON)
SELCLL	EXEC	SELCOPY equivalent to CMS LISTFILE - selection based on file timestamp.
SELCPAGE	EXEC	SELCOPY to report number of pages in a List file based on ASA characters.
SELCPUR	EXEC	SELCOPY to selectively purge files from RDR queue.
SELCREAD	EXEC	SELCOPY to create CMS files from the distribution bundle without punching to RDR queue.
SELCSCAN	EXEC	SELCOPY to Scan CMS files for a string.
SELCTEXT	EXEC	SELCOPY to create Link Edit deck from CMS TEXT file. (Submit to guest MVS or VSE.)

SELCTXTV	EXEC	SELCOPY to reformat a TEXT file for viewing in Hex.
SELCTYP	EXEC	SELCOPY to reformat a CMS file for print.
SELCVSAM	EXEC	SELCOPY to read a VSAM file on a guest MVS/VSE disk.
DIRCMS	CTL	SELCOPY EQUate control statements for CMS DIR records.
DIRINT	CTL	SELCOPY control statements example CMS DIR input (e.g. Read *.EXEC.*)
GS009	CTL	SELCOPY control statements to backup VSAM files.
GS012	CTL	SELCOPY control statements to match 2 files out of sequence.
GS015	CTL	SELCOPY control statements to print IMS/DL1 database entries.
SELCERAS	CTL	SELCOPY control statements to conditionally erase CMS files.
SELCIVP	CTL	SELCOPY control statements to verify successful install.
SELCIVP2	CTL	SELCOPY control statements to verify successful install of SELCOPY Interactive.
SSDB2EQU	CTL	SELCOPY control statements to generate SELCOPY EQUates for DB2 table rows.
SSDB2LD	CTL	SELCOPY control statements to generate SELCOPY control statements for DB2 LOAD.
XVDEMO	CTL	SELCOPY control statements for XV NEXT of REXX variable.
SSDIRM08	CTL	SELCOPY control statements for MVS PDS DIR records.
SSDIRM10	CTL	SELCOPY control statements for MVS PDS DIRectory and member DATA records.
CBLNAMX	ASSEMBLE	Skeleton CBLNAME ASSEMBLE source.
SELCNAMX	TXT	Skeleton SELCNAM file.
CBLCATL	Z	Sample VSE JCL to CATALOG LIBR members.
CBLDEFL	Z	Sample VSE JCL to DEFINE LIBR library.
CBLDEFS	Z	Sample VSE JCL to DEFINE LIBR sublibrary.
CBLIAPPL	Z	Sample VSE JCL to CATALOG VTAM APPL.
CBLIINI	Z	Sample VSE JCL to CATALOG simple SYSTEM.CBLIINI member.
CBLIVTAM	Z	Sample VSE JCL to start the CBLi VTAM application.
CBLLINK	Z	Sample VSE JCL to Link Edit the CBL Program modules.
CBLLOAD	Z	Sample VSE JCL to Load Help, CBL macro and sample command-files.
CBLNAMEA	Z	Sample VSE JCL to Assemble CBLNAME.
CBLNAMEM	Z	Sample VSE JCL to CATALOG the CBLNAME.A Assembler macro.
CBLUNLD	Z	Sample VSE JCL to Catalog the Help, CBL macro and sample CMX file bundles.
CBLVVJ07	Z	Sample VSE JCL for CBLVCAT IVP.
SELCVJ02	Z	Sample VSE JCL to generate SELCNAM file.
SELCVJ08	Z	Sample VSE JCL for SELCOPY IVP.

Step 5: Execute the CBL Software Installer

If SELCOPY, CBLVCAT or the CBLi Interactive Environment is already installed on a production disk, then this disk should be accessed Read/Only so that any existing, company specific default options are preserved in the new versions.

If this is the first time CBL software is being installed, then, before running install, the installing user should be familiar with following:

1. The company site/location string as supplied by CBL.
2. The product operational date range as supplied by CBL. (SELCOPY/CBLVCAT)
3. The product password as supplied by CBL. (SELCOPY/CBLVCAT)

If the site, date range and password licence details are not known for the product you are installing, then please contact CBL for assistance. Users who already have SELCOPY and/or CBLVCAT installed, will inherit these licence details from their existing configuration files.

From the CMS terminal, execute the install EXEC, CBLINSVM, and reply to the prompts.

```
EXEC CBLINSVM
```

CBLINSVM performs the following tasks:

1. Queries which CBL product is to be installed (SELCOPY, CBLVCAT or both).
2. Configures the CBLNAME ASSEMBLE source file.
3. Assembles CBLNAME to generate the TEXT object deck.
4. Configures the SELCNAM file. (SELCOPY only)
5. Generates the product executable Modules.
6. Generates CMS PHASE libraries (DOSLIBs).
7. Starts CBLi Interactive Environment to configure the SYSTEM CBLiINI file.

When CBLi is started, follow the prompts to create the System CBLiINI configuration file then hit <PF3> to exit the windows, saving changes where prompted. System-wide CBLi options may be added to this file to tailor the CBLi environment for all users. (See the on-line help for CBLiINI file options - enter **HELP INI** at any CBLi command prompt.)

A file 'CBLINSVM LOG A' providing a record log of the latest install terminal messages and user replies, is also edited. You may review this log using <PF7> and <PF8> to page up and page down respectively.

Eventually, <PF3> will exit CBLi.

Note:

1. Every time a user starts CBLi, options in the System CBLiINI are implemented.
2. The first time new users edit a file with CBLi, they are prompted to create a user-specific CBLiINI file on the local A disk and then re-start CBLi for options in the new User CBLiINI file to be implemented. The User CBLiINI file allows users to tailor their own, user specific CBLi environment options. (e.g. PFKeys, etc.)

Step 6: Verify SELCOPY Install

This step is applicable to install of **SELCOPY**.

Start the CBL Interactive Environment (CBLi) from your CMS terminal using the following:

```
CBLI
```

Note:

1. If this is the first time CBLi has been started in this way, follow the prompts to create a new User CBLiINI file, exit CBLi and start it again.

By default, the CBLi text editor is started displaying your personal CMX file (fileid *userid* CMX A.)

A CMX file is a general repository for CBLi text edit, CBLi, CMS or CP line commands. These commands may be subsequently executed from within the text, simply by placing the cursor on the command string and hitting <PF4>. <PF4> is assigned to the CBLi **CMDTEXT** function, an extremely useful facility which is unique to CBLi.

Users are encouraged to update their CMX files with any line commands they use on a regular basis. e.g. CBLi FILELIST, CP LINK, CMS ACCESS and QUERY commands.

The edited CMX file contains a section entitled "**SELCOPY Interactive - IVP**". Place the cursor on the line following the section header (i.e. "<selcopy -ctl SELCIVP.ctl") and hit <PF4> to start SELCOPY Interactive debug.

If no errors occurred, then SELCOPY was successfully loaded and execution stopped before execution of the first control statement. Hit <PF13> (Shift-<PF1>) to run the SELCOPY to completion.

The job should complete with RC=0 and print the following string in the output listing:

```
"SELCOPY Release 2.02 has been installed correctly."
```

If the job completes with RC=52 and ERROR 124, then the licence details (SITE, RANGE and PASS) have not been correctly configured in the SELCNAM file or the CBLNAME option SNamDSN is incorrect. Edit the SELCNAM file and CBLNAME ASSEMBLE source to verify and then rerun CBLINSVM. (See [Step 5.](#))

Step 7: Verify CBLVCAT Install

This step is applicable to install of **CBLVCAT**.

Start the CBL Interactive Environment (CBLi) from your CMS terminal using the following:

```
CBLI
```

Note:

1. If this is the first time CBLi has been started in this way, follow the prompts to create a new User CBLiINI file, exit CBLi and start it again.

By default, the CBLi text editor is started displaying your personal CMX file (fileid *userid* CMX A.)

A CMX file is a general repository for CBLi text edit, CBLi, CMS or CP line commands. These commands may be subsequently executed from within the text, simply by placing the cursor on the command string and hitting <PF4>. <PF4> is assigned to the CBLi **CMDTEXT** function, an extremely useful facility which is unique to CBLi.

Users are encouraged to update their CMX files with any line commands they use on a regular basis. e.g. CBLi FILELIST, CP LINK, CMS ACCESS and QUERY commands.

The edited CMX file contains a section entitled "**CBLVCAT Interactive - IVP**". Place the cursor on the line following the section header (i.e. **<CBLi vcat query cblname**) and hit <PF4> to start CBLVCAT Interactive.

If no errors occurred, then CBLVCAT was successfully loaded and a report of CBLVCAT specific CBLNAME fields generated.

If the job completes with RC=0 but no report output is generated other than the following message, then the licence details (Site, VDateRange and VPassword) have not been correctly initialised in CBLNAME.

```
** Expiry: yyyy-mm-dd **
```

Edit the CBLNAME ASSEMBLE source to verify and then rerun CBLINSVM. (See [Step 5.](#))

Note:

1. In order to execute CBLVCAT interactively, the relevant guest VSE disks should be accessed and any necessary CMS ASSGN and/or DLBL commands issued.

Step 8: Migrate to Production

If all steps have been executed successfully, then CBL products have been successfully installed.

The CBL products install disk should now be made accessible to all users. If CBL products are already installed on a production disk, then that disk should no longer be accessed by users. Alternatively, all CBL product related files should be removed from the production disk. In particular:

```
SELCOPY MODULE
SELCOPY DOSLIB
CBLV MODULE
CBLV DOSLIB
CBLI MODULE
CBLDLL TEXT
CBLNAME TEXT
```

Any maintenance should be applied to product TEXT files found on the install disk. See section "[Applying Maintenance](#)" for details.

CBL software is now installed - Thank you for using it.

Section 05: Updating Licence Information

SELCOPY SELCNAM File

SELCOPY licence information is maintained in the SELCNAM file.

SELCNAM is designed to be **release independent**. This means that, once you have installed a release of SELCOPY which utilises the SELCNAM data set and is still validly licensed, you do not need to update SELCNAM to change **SITE=**, **PASS=** and **RANGE=** parameters when installing a new release.

Your existing licence information, if valid for your current release, will be valid for the new release.

Except when creating your SELCNAM file for the first time, updating licence information in SELCNAM and installing a new release of SELCOPY are independent activities.

The licence information in SELCNAM must be updated when product expiry is imminent. CBL will ensure that licensed date ranges will always overlap sufficiently for you to plan the SELCNAM upgrade.

Whenever SELCOPY licence information is updated, CBL recommends that the following steps are executed:

1. Copy the existing SELCNAM file to a new fileid which we will name 'NEWSELC NAM A'.

Because any error you make in coding the licence information in SELCNAM will immediately stop SELCOPY working, you **must not** make changes directly to the production SELCNAM file.

2. Edit the 'NEWSELC NAM A' and modify with the new SITE, RANGE and PASS values. Note that these details must be entered exactly as supplied by CBL.
3. Define a FILEDEF SELCNAM for 'NEWSELC NAM A' and rerun the Verify SELCOPY Install step in section 4 of this document. (See [Step 6.](#))

```
FILEDEF SELCNAM    DISK    NEWSELC NAM A
```

The new expiry date appears in the footer of the SELCOPY SYSPRINT output.

If this test job runs successfully (without producing **ERROR 124** - Check expiry) then the licence information was entered successfully. If not, re-enter your changes to 'NEWSELC NAM A' and repeat the test until it is successful.

4. **Backup** your current production SELCNAM file (to enable fallback in case of a problem).
5. Schedule a time when you can migrate the new SELCNAM to production without impacting production SELCOPY work. 'NEWSELC NAM A' should be copied over your production version of the SELCNAM file.
6. Clear the SELCNAM FILEDEF definition and rerun the SELCOPY verification step. The new production SELCNAM will be read by default.
 - ◆ If the test job still runs successfully then your upgrade to SELCNAM is complete.
 - ◆ If the test job fails, re-instate the backup copy of your production SELCNAM and repeat this procedure until successful.

CBLVCAT CBLNAME Load Module

CBLVCAT licence information is maintained in the CBLNAME Load Module.

The licence information in CBLNAME must be updated when product expiry is imminent. CBL will ensure that licensed date ranges will always overlap sufficiently for you to plan the CBLNAME upgrade.

Whenever CBLVCAT licence information is updated, CBL recommends that the following steps are executed:

1. Copy the existing 'CBLNAME TEXT' to a new fileid which we will name 'CBLNAMEEC TEXT', and copy the existing 'CBLNAME ASSEMBLE' to a new fileid which we will name 'CBLNAMEEC ASSEMBLE'. (This is to enable fallback in case of a problem).
2. Ensure that the CBL product disk is accessed Read/Write by the current user, but not as disk letter A. Run the CBLINSVM install executable with parameter PASS, specify configuration for CBLVCAT only and update the CBLNAME VPassword and VDateRange values when prompted.

```
CBLINSVM PASS
```

CBLINSVM identifies current CBLNAME settings and prompts you to update them. It then assembles CBLNAME creating a CBLNAME TEXT on the local A disk. Any error made in specifying the licence information will immediately stop CBLVCAT from working. Therefore, you **must not** have the CBL product disk accessed as A.

3. Rerun the Verify CBLVCAT Install step in section 4 of this document. (See [Step 7](#).)

If the job completes with RC=0 but no report output is generated other than the following message, then the licence details (Site, VDateRange and VPassword) have not been correctly initialised in CBLNAME.

```
** Expiry: yyyy-mm-dd **
```

Rerun CBLINSVM PASS and repeat the verification test until it is successful.

If successful, the new date range is displayed in the report output page footings.

4. Schedule a time when you can migrate the new 'CBLNAME TEXT A' onto the production disk without impacting production CBLVCAT work. It should be copied to your production disk replacing the existing version.
5. Erase 'CBLNAME TEXT A' and rerun the CBLVCAT verification test again. The new production CBLNAME will be processed by default.
 - ◆ If the test job still runs successfully then your upgrade of CBLNAME is complete and the temporary load library may be deleted.
 - ◆ If the test job fails, re-instate the backup copy of your production CBLNAME from 'CBLNAMEEC TEXT' and repeat this procedure until successful.

Section 06: Applying Maintenance

Maintenance to CBL software products take the form of Program Temporary Fixes (PTF), more commonly referenced as ZAPs in CBL documentation. Zaps correct code defects and, in some cases, introduce new features.

In CMS, zaps are applied to the product TEXT object decks using the IBM Service Program, **ZAPTEXT**. For further information see the section "Servicing Non-VMSES/E SNA Products" in the VMSES/E Introduction and Reference manual (SC24-5747).

For each program product (SELCOPY, CBLVCAT and CBLi) there exists a single ZAPTEXT source file that applies **all published** zaps to the program.

The ZAPTEXT source files are published as .zip files that may be downloaded from product specific technical support pages on the CBL web site. These pages also contain brief descriptions of the issues addressed by each zap.

Note:

1. Zaps may be specific to an individual operating system (e.g. VSE, MVS or CMS). Applying zaps that are not applicable to your operating system will not affect operation of the software on your system. CBL recommends that all zaps are applied regardless of the operating system to which they apply.

To apply maintenance, perform the following steps:

1. Download the .zip file specific to the operating system and CBL product for which maintenance is to be applied and extract the .txt file.
2. Ensure that the CBL product disk is accessed Read/Write by the current user, but not as disk letter A.
3. Use your local file transfer methods to import the ZAPTEXT source (FileMode ZAP) to the CMS local disk A, RECFM F LRECL 80. CBL recommends that you transfer the ZAPTEXT source with a fileid that reflects the product and zap numbers being applied. e.g. 'S001#033 ZAP A' for SELCOPY zap numbers 1 to 33, 'V021#021 ZAP A' for CBLVCAT zap number 21, 'I010#012 ZAP A' for CBLi zap numbers 10 to 12.

Note:

1. If you have already applied maintenance for the product, then edit the ZAPTEXT source and remove the zaps which are already implemented.
2. If an attempt is made to apply a zap more than once, the data verification fails, a non-zero return code is set and ZAPTEXT fails.
4. Backup the TEXT, MODULE and DOSLIB files for the product being zapped (SELCOPY, CBLV, CBLI and/or CBLDLL).

Note:

1. You must never apply maintenance without first backing up the live versions of the product executables.
5. Copy the following CBL product TEXT object decks to the A disk:

```
SELCnnn TEXT
CBLVnnn TEXT
CBLI TEXT
CBLDLL TEXT
CBLAVARL TEXT
```

6. Run the ZAPTEXT utility specifying the TEXT object deck being zapped and the source ZAP file. e.g. To zap SELC201 TEXT with zaps in S001#033 ZAP, enter the following:

```
ZAPTEXT SELC201 (INPUT S001#033
```

The specified TEXT file will be updated with the new machine code.

7. Re-run CBLINSVM to regenerate executable MODULEs and DOSLIBs from the TEXT files on the local A disk. (Accept the detected values for CBLNAME and SELCNAM.)

8. Copy the zapped TEXT, MODULE and DOSLIB files to a disk available by pre-production environment users so that test jobs may be executed to verify successful application of zaps.

Note:

1. Differences in execution may occur as a result of a zap being applied that corrects a code defect that is being exploited, or gone unnoticed, at your installation. If these differences are unexpected or unacceptable, please contact CBL.
9. Schedule a time when you can copy the zapped TEXT, MODULE and DOSLIB files back to the CBL product disk without impacting production work.

If an unexpected difference is encountered in a production job, then restore the the TEXT, MODULE and DOSLIB files from your backup copies. You should contact CBL to identify the zap(s) that caused the difference and to determine how to proceed.

Section 07: VSE Install from CMS

The smoothest way to install the CBL software products under VSE is from CMS, using your operational CBLi program.

From CBLi, edit the provided **VSEINST CMX** command-centre file, which provides step-by-step instructions, and the necessary commands, ready for **point-and-shoot** execution using PF4.

Some site-dependent choices will be made at the beginning of the procedure. **EQU**ated variables set are automatically translated in subsequent commands issued from CBLi.
