

August 25, 2000

To: BIM-EDIT/MVS 4.2A, 5.0A-C, 5.1A-B, 5.2A and 5.3A users

Enclosed are the necessary materials to upgrade to BIM-EDIT/MVS 5.4A from BIM-EDIT releases 4.2A, 5.0A-C, 5.1A-B, 5.2A or 5.3A. This includes the following:

- 5.4A Tape or cartridge
- 5.4A Release Letter
- 5.4 System Reference Manuals
- 5.4 User Reference Manuals
- 5.4 Summary Reference Cards

Depending on which release of BIM-EDIT you are upgrading from, you will also receive one or more of the following release letters that describe the changes to each release:

- 5.3A Release Letter
- 5.2A Release Letter
- 5.1B Release Letter
- 5.1A Release Letter
- 5.0C Release Letter
- 5.0 Release Letter

Pre-Installation Planning

The following items should be considered before attempting to upgrade to release 5.4A of BIM-EDIT:

- Release 5.4A of BIM-EDIT will require more virtual storage than prior releases, particularly if you will be allowing users to use the increased session capabilities. You will want to review your current region size and BIM-EDIT definitions to determine if they need changing. **These steps must be completed before installing release 5.4A of BIM-EDIT!**

- 1) First you should review the BIM-EDIT storage use by issuing a 'SHOW MMP' command in BIM-EDIT and making note of the values for the following fields:

MMP16KSP this field contains the maximum number of 16K buffers that BIM-EDIT should attempt to allocate at startup.

MMP16KDP this field shows how many 16K buffers BIM-EDIT was able to allocate at startup.

MMP16KMU this field shows the maximum number of 16K buffers used by BIM-EDIT. This value should be recorded at a time when the maximum number of users are logged on, and after BIM-EDIT has been up long enough that most functions will have been performed at least once.

- 2) You will want to make sure that the difference between the value for MMP16KDP and MMP16KMU is at least as large as the maximum number of concurrent users ever logged on. BIM-EDIT 5.4A will generally use one additional 16K buffer for each user logged on. For extra measure, you should strive for a difference between these two values of at least twice the maximum number of users logged on concurrently.

If you don't have this number of unused 16K buffers, you will need to increase the allocation. If the values for MMP16KSP and MMP16KDP are the same, you will need to increase the value for MMP16KSP, cycle your BIM-EDIT system, and check it again to make sure the region is large enough to allocate the additional buffers. If these two values are not the same, then your region size is too small and its' virtual size will need to be increased.

- Beginning with release 5.2A of BIM-EDIT, several changes were required to handle the years 2000 and above. These changes may affect BIM-EDIT procedures you have written, and any applications you may have that access BIM-EDIT using its Application Interface. The specific changes that were made are outlined in a help member "EDIT-52A" that will be available once you have installed this release. In general, any system variable or output display that contained a date will now contain a 4-digit year instead of a 2-digit year. The affected variables are: OPSDATE, SIBDATE, TXLDTCRE, TXMCKDTE, TXMDTCRE and TXMDTUPD. The affected output displays are: LIBRARY, LIBRARYL, LIBRARYQ and SHOW. The changes to the output displays resulted in shifting and reordering some fields. Any procedure or application that extracts fields from these displays will need to be

reviewed. If you are already running release 5.2A, you have already made the required changes.

- If you are using the product BIM-EDIT/XP, you will need to make sure that all of the PC workstations using that product have upgraded to release 1.6A or above of EDIT/XP. Older releases of EDIT/XP will not be able to logon to this release of BIM-EDIT. The newer releases of EDIT/XP will also function on earlier releases of BIM-EDIT.
- If you are using the product BIM-PC/TRANSFER, at release 1.5A or below, to either upload to or download from your BIM-EDIT database, you will need to get fix #16790 from BIM to correctly handle the new LIBRARY command output format produced by this release of BIM-EDIT.

Installation Check-List

The following step-by-step instructions should be followed when upgrading to release 5.4A. These instructions will upgrade your current BIM-EDIT library to a 5.4A system. Specific steps have been included to provide a backout path if problems should occur.

This process could also be done from a copy of your current BIM-EDIT library, however, using a copy of your library will introduce synchronization problems if your production library is being updated during this conversion.

1. Review the enclosed release letters (5.4A, 5.2A, 5.1B, 5.1A, 5.0C, 5.0) for potential impact on your system.
2. Perform a logical backup (BACKUPG) using your current release.

This is a very important step. The file format has changed for release 5.4A. The format conversion will occur the first time release 5.4A is brought up. Once the conversion has been made, you will NOT be able to bring up your prior BIM-EDIT release without first restoring from this backup!

3. If you are upgrading from a release of BIM-EDIT prior to 5.2A, and are currently using the ARCHIVE feature of BIM-EDIT, you must issue the ARCHIVE command to write the \$SIT.ARCHIVE members to tape before installing this new release.
4. If you are currently running BIM-EDIT release 5.0C through 5.2A, and you are using the BIM-EDIT Calendar Feature (TODAY), you must remove it before installing this new release by using the INSTALL procedure as documented in Chapter 7 of the BIM-EDIT System Reference Manual. (Users upgrading from 4.2A, 5.0A, 5.0B and 5.3A should ignore this step.)
5. Shut down your current BIM-EDIT system (SHUT).
6. Install 5.4A by performing installation steps 2 and 3 as documented on page 367 of the System Reference Manual. If you cannot install the load modules for this release into new MVS libraries, then you must ensure that a backup is available of your current BIM-EDIT load modules, and that you have the means to restore this backup in case a backout is required.
7. Start up 5.4A. Extreme caution should be used here. Ensure that there are not any BIM-EDIT load modules from your prior release that are somehow accessible to the 5.4A system. This includes any load modules that were customized and assembled, e.g., exit routines, and batch and CICS BIM-EDIT load modules such as BIMUTIL, BIMCSCL, etc.

Several conversion messages will occur during the first startup of this new release. Once the conversion has been made, you cannot go back to your prior release of BIM-EDIT without first restoring your BIM-EDIT library using the backup created in step 2.

(Note: At this point, messages may be out of sync, i.e., the message table contains prior release messages. Don't panic if a particular message makes no sense -- you'll be loading the 5.4A messages shortly.)

8. Restore the 5.4A system libraries by submitting a job similar to the following:

```
//RESTORE JOB ....
//BIMUTIL EXEC PGM=BIMUTIL
//STEPLIB DD DSN=BIMEDIT.LOADLIB,DISP=SHR
//BIFLOG DD DSN=BIFLOG,UNIT=TAPE,LABEL=(2,SL,EXPDT=98000),
// DISP=OLD,VOL=SER=BIMEDI
//SYSPRINT DD SYSOUT=A
//SYSIN DD *
LOGON $$SYS,$$SYS
RESTOREL $$SYS.CTRL
RESTOREL $$SYS.DOC
RESTOREL $$SYS.HELP PURGE=YES
RESTOREL $$SYS.JCL
RESTOREL $$SYS.MAINT
RESTOREL $$SYS.MODEL
RESTOREL $$SYS.PROC
RESTOREL $$SYS.SRC PURGE=YES
RESTOREL $$SYS.UDP PURGE=YES ;(Optional - User Developed Procedures)
/*
```

9. Update the message table by entering the following command:

```
=> newcopy messages
```

Messages are now in sync.

10. **Ensure that your old system cannot be started by accident. If you must revert back to your old system, it will be necessary to perform a logical restore from the logical backup performed in step 2.**

11. Make a logical backup (BACKUPG) of your new BIM-EDIT 5.4A BIFLIB now. Do not reuse the BACKUPG tape set created in step 2. After running this BACKUPG, you will have two logical backup tape sets, a final set from your prior BIM-EDIT release (created in step 2), and this one for 5.4A.

The 5.4A logical backup is extremely important. While BIM-EDIT 5.4A will allow selective library/member restores from any backup tapes, it will not allow a full system logical restore from a tape created prior to release 5.4A. Therefore, take whatever precautions are deemed appropriate here. If an additional logical backup is needed for offsite storage, take it now.

12. If you've customized any BIM-EDIT modules, you'll probably want to do the same with the 5.4A modules. All customized modules must be reassembled using the 5.4A record descriptions and equates.

13. If you have any application programs that use the application interface, and you are upgrading from a release prior to 5.1A, assemble (or compile) and link these applications, so that the 5.4A application interface routines are linked in. This is the last time you will need to do this. The application interface was redesigned in release 5.1A such that only a linkage stub is included in your applications. You should also review Chapter 6 of the System Reference Manual for any changes or additions to the BIM-EDIT Application Interface that may affect your applications.
14. Customize the JES interface of BIM-EDIT by performing installation step 14 on page 373 of the System Reference Manual.
15. If you are using the TODAY feature, and you are upgrading from release 4.2A, 5.0A or 5.0B of BIM-EDIT, do the following (users upgrading from 5.0C, 5.1A-B, 5.2A and 5.3A should ignore this step):
 - a) PURGE the following members: `$SIT.PROC.TODAY`
`$SIT.PROC.LOGON` (if not your procedure)
 - b) remove the following line from `$SIT.CTRL.COMMANDS`:
`TODAY TODAY`
16. If you are using the TODAY feature, and you were required to perform either step 4 or step 15 to remove it from your system, then you will now want to re-install it by executing command: `INSTALL` and selecting "CALENDAR feature".
17. If you have the "Archive and Recover" feature installed, you must use the `INSTALL` command to first remove, and then re-install this feature. Refer to Chapter 7 of the System Reference Manual.
18. If you are upgrading from a release of BIM-EDIT prior to 5.3A, and you use the "Archive and Recover" feature, you must execute the procedure `BIPGNCNV` to convert the archive libraries to a new naming convention used beginning with release 5.3A. If you have more than 10,000 archived members, you will need to change the 'SET PPDPLMT' statement in procedure `BIPGNCNV` before executing it. Enter the following command to perform this conversion:

```
=> ex $sys.proc.bipgncnv
```

- BIM