# Managing UES Support of VM Databases

You can convert a non-UES-enabled VM database to a UES-enabled one. Once you have done so, you can verify that UES support has been added to a VM database.

- Adding UES Support to an Existing Database

- Verifying UES Support

## Adding UES Support to an Existing Database

▶ **To convert a non-UES-enabled VM database to a UES-enabled one, complete the following steps:**

1. Load the CMS nucleus extensions required for UES support to your VM database. Use the supplied sample EXEC, NUCXUES, to assist you.

   **Note:**
   The NUCXUES EXEC must be run every time the database is started, so you may find it simpler to call NUCXUES from your ADANUC EXEC.

```
/* +++++++++++++++++/  A D A B A S  VERSION 7.4  /+++++++++++++++++ */
/*   NUCXUES  -                                                     */
/*   This EXEC loads the CMS nucleus extensions required           */
/*   for Adabas UES support.                                       */
/*                                                                 */
/*                                                                 */
/*      This EXEC is a sample. It is not a part of the ADABAS      */
/*      product and is not considered to be supported by any       */
/*      maintenance contract agreements.                           */
/*                                                                 */
/*                                                                 */
'EXEC DEFNUCX ADAECS'
'EXEC DEFNUCX ADACOX'
'EXEC DEFNUCX SAGSMP2'
'EXEC DEFNUCX SAGECS'
'EXEC DEFNUCX SAGOVO'
return 0
```

2. Locate the following lines in the ADANUC EXEC for your VM database:

```
address command 'DATADEF DDPRINT,DSN=NUC' || dbid'.DDPRINT,MODE=A'
address command 'DATADEF DDCARD,DSN=ADANUC.DDCARD,MODE=A'
```

   Once you have located these lines, insert the following lines after them and modify the file modes, as necessary:

```
ADDRESS COMMAND 'DATADEF SYSPARM,DSN=SMARTS.CONFIG,MODE=A'
ADDRESS COMMAND 'DATADEF CONFIG,DSN=CONFIG.RTS,MODE=A'
ADDRESS COMMAND 'DATADEF STDOUT,DSN=STDOUT.DDPRINT,MODE=A'
ADDRESS COMMAND 'DATADEF STDERR,DSN=STDERR.DDPRINT,MODE=A'
```

   A sample ADANUC EXEC is provided to assist you.

3. Copy the following to a minidisk or SFS directory that is accessible by the database machine.

   - APS272.CMSLD01

   - BTE421.CMSEC01

   Refer to the *Report of Tape Creation* to accurately locate these files.

4. Modify SETTXTLB EXEC as follows:

   - Update the Global TXTLIB statement putting APSV272 before ADAV744:

   ```
   ADDRESS COMMAND 'GLOBAL TXTLIB APSV272 ADAV744 DMSAMT VMMTLIB'
   ```

   - Add a Global LOADLIB statement for APSV272:

   ```
   ADDRESS COMMAND 'GLOBAL LOADLIB APSV272'
   ```

5. Edit the SMARTS CONFIG file provided. Specify a SYSTEM_ID in SMARTS CONFIG using a value such as the virtual machine name of the VM database. This value is used in messages.

   Here is a sample SMARTS CONFIG file:

   ```
   *       SMARTS PARAMETERS
   *
   CDI=('FILE,PAASFSIO')              NATIVE CMS FILE I/O
   SYSTEM_ID=yoursysname
   PROCESS_HEAP_SIZE=0
   ABEND_RECOVERY=NO
   THREAD_ABEND_RECOVERY=NO
   LOG=OPER
   ASCII=NO
   FLOATING_POINT=IEEE
   * TRACING PARAMETERS
   *SYSTEM_TRACE_LEVEL=5
   *TRACE_SYSTEM_INCLUDE=ALL
   *TRACE_GROUP_INCLUDE=ALL
   ```

6. Run ADADEF for the VM database, specifying `MODIFY UES=YES`.

7. Start the ITM, the VM database, and Entire Net-Work.

## Verifying UES Support

You can verify that UES support has been added to a VM database in one of the following ways:

- When the database starts, it should issue the following message:

   ```
   ADAN7C 00001 ENTIRE CONVERSION SERVICES INITIALIZED
   ```

- On the Entire Net-Work machine, issue the DISPLAY TARGETS command. The display for the UES database should look like this:

   ```
   NET0124I: Target 00001 (I-T)  active  on node PTGITM
   ```

The highlighted **T** in this display stands for Translator. If the display shows (I-N), Entire Net-Work does not recognize that the database is UES-enabled.