Installing Natural for MBCS under z/OS

This section describes step by step how to install Natural for MBCS (product code NKA) under the operating system z/OS using Adabas system files.

This section covers the following topics:

- Prerequisites

- Installation Tape for Natural for MBCS under z/OS

- Installation Procedure

- Installation Verification for Natural for MBCS

See also *z/OS Environment* in the *Operations* documentation.

For installation-related information on Unicode and code page support, refer to *Configuration and Administration of the Unicode/Code Page Environment* in the *Unicode and Code Page Support* documentation.

Notation *vrs* or *vr*:

The notation *vrs* or *vr* stands for the relevant version, release, system maintenance level numbers. For further information on product versions, see *Version* in the *Glossary*.

Prerequisites

- Base Natural must be installed.

- It is possible to use a VSAM file as a system file. In this case, Natural for VSAM must be installed. For more information, see the *Natural for VSAM* documentation.

For further information, refer to the products and versions specified under *Natural and Other Software AG Products* and *Operating and Teleprocessing Systems Required* in the current *Natural Release Notes for Mainframes*.

Installation Tape for Natural for MBCS under z/OS

The installation tape contains the datasets listed in the table below. The sequence of the datasets and the number of library blocks needed are shown in the *Report of Tape Creation* which accompanies the installation tape.

Dataset Name	Contents
NKA*vrs*.LOAD	Natural for MBCS load modules.
NKA*vrs*.INPL	Natural for MBCS system objects.

Copying the Tape Contents to a z/OS Disk

If you are using SMA, refer to the *System Maintenance Aid* documentation (included in the current edition of the Natural documentation CD).

If you are *not* using SMA, follow the instructions below.

This section explains how to:

- Copy dataset COPY.JOB from tape to disk.

- Modify this dataset to conform to your local naming conventions.

The JCL in this dataset is then used to copy all datasets from tape to disk.

If the datasets for more than one product are delivered on the tape, the dataset COPY.JOB contains the JCL to unload the datasets for all delivered products from the tape to your disk.

After that, you will have to perform the individual install procedure for each component.

- Step 1 - Copy Dataset COPY.JOB from Tape to Disk
- Step 2 - Modify COPY.JOB on Your Disk
- Step 3 - Submit COPY.JOB

Step 1 - Copy Dataset COPY.JOB from Tape to Disk

The dataset COPY.JOB (Label 2) contains the JCL to unload all other existing datasets from tape to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* -------------------------------
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,,DEFER),
// VOL=(,RETAIN,SER=tape-volume),
// LABEL=(2,SL)
//SYSUT2 DD DSN=hilev.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=volume,
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```

where:

hilev is a valid high level qualifier
tape-volume is the tape volume name, for example: T12345
volume is the disk volume name

Step 2 - Modify COPY.JOB on Your Disk

Modify the `COPY.JOB` on your disk to conform to your local naming conventions and set the disk space parameters before submitting this job:

- Set `HILEV` to a valid high level qualifier.

- Set `LOCATION` to a storage location.

- Set `EXPDT` to a valid expiration date.

Step 3 - Submit COPY.JOB

Submit `COPY.JOB` to unload all other datasets from the tape to your disk.

Installation Procedure

- Step 1 - Relink the Natural Nucleus to Include the Natural for MBCS Module

- Step 2 - Load the System Programs

Step 1 - Relink the Natural Nucleus to Include the Natural for MBCS Module

(Jobs I060 and I080 from the Natural installation tape)

Relink your Natural nucleus to include the Natural for MBCS module:

```
  INCLUDE NKALOAD(NKANUC)
```

You must link the `NKANUC` module to all Natural nuclei that should make use of the features supplied by Natural for MBCS. Software AG recommends that you relink Natural with the `NKANUC` module.

To avoid the need to relink Natural with `NKANUC`, specify the Natural profile parameters `RCA` and `RCALIAS` either dynamically or in the `NATPARM` parameter module:

```
RCA=NATGWNKA,RCALIAS=(NATGWNKA,NKANUC)
```

Step 2 - Load the System Programs

(Job I061, Step 8200)

Use the Natural utility *INPL* to load the Natural system objects (dataset `NKAvrs.INPL`) into the Natural system file.

Installation Verification for Natural for MBCS

After the last step of the installation procedure has been successfully performed, start Natural and enter the command `EDIT MAP` at the command prompt. The **Edit Map** menu should then appear with the additional menu option **Outline Editor**.