

Inplace Conversion from a Previous Version



The inplace conversion will result in considerable modifications to the internal structure of your dictionary data. Software AG recommends that, before you execute the following installation steps you back up your Predict system file using the backup procedures usually performed in your environment.

Please read the following operating system specific information before you start installing Predict.

This section covers the following topics:

- Installing under VM/CMS
 - Installing under BS2000, OS/390 or VSE/ESA with SMA
 - Inplace Conversion from Version 4.1
-

Installing under VM/CMS

- Read the file INSTALL.README.
- Copy the tape contents to disk as described in the section **Copying the Tape Contents to Disk** for VM/CMS
- For the conversion from Version 4.1, perform the Installation Steps described below for all operating systems and continue.

Installing under BS2000, OS/390 or VSE/ESA with SMA

1. Set the SMA switches as shown in the table below.

SMA Switch	For Migrate from Version 4.1
PRD-FIRST-INSTALL	N
PRD-MIGR-FR41	Y

Note:

Leaving a field blank is the equivalent of entering N.

2. Copy the tape contents to disk.
The steps required depend on your operating system environment and are described in the section **Copying the Tape Contents to Disk** for
 - BS2000/OSD
 - OS/390
 - VSE/ESA
3. For the conversion from Version 4.1, perform the following Installation Steps and continue.

Inplace Conversion from Version 4.1

The inplace conversion will result in considerable modifications to the internal structure of your dictionary data. Software AG recommends that, before you execute the following installation steps you back up your Predict system file using the backup procedures usually performed in your environment.

Before starting installation with this method, carefully read the section Conversion in the **Predict Administration documentation**.

Use the function "Conversion defaults" to specify new object-type, association or retrieval-model names/codes for user-defined object types, associations or retrieval models, defined in earlier versions of Predict, if the old names and codes are now reserved. You will not be able to continue the Conversion until valid names/codes have been specified.

Note:

There are no physical changes in the Predict system file from Version 4.1 to Version 4.2.

Installation Steps

Perform the following steps after copying the tape contents to disk.

▶ Step 1 - Delete Modules No Longer Used

(Job I051, Step 0615)

Predict modules from earlier versions which were copied to libraries different from the original libraries after installation must be deleted from these libraries using the Natural utility INPL with the dataset PRD42n.DE42 as input.

▶ Step 2 - Load Predict System Programs

(Job I061, Step 0600)

The Predict system programs are contained in the dataset PRD42n.INPL. Load these programs into your Natural system file using the Natural utility INPL. This dataset also contains the Predict error messages.

▶ Step 3 - Load Predict XREF System Programs

(Job I061, Step 0601)

The Predict XREF system programs are contained in the dataset PXR11n.INPL. Load these programs into your Natural system file (FNAT) using the Natural utility INPL. This dataset also contains the Predict XRef error messages.

▶ Step 4 - Specify the Conversion Defaults Manually

Before performing the data conversion, log on to the library SYSDICCO, call the Conversion Utility Menu by entering MENU at the NEXT prompt and select the function "Conversion defaults".

Conversion defaults are used to specify new object-type, association or retrieval-model names/codes for user-defined object types, associations or retrieval models defined in earlier versions of Predict if the old names and codes are now reserved.

The following object-type, association and retrieval-model names/codes are reserved in Predict Version 4.2:

Reserved Object Type	
Names	Codes
TRIGGER	TR
VISTA-DA	
VISTA-FI	

Reserved Retrieval Model	
Model Name	Object Type
AP	SY

Reserved Association		
Object Type	Active Code	Passive Code
(FI->TR)	TR	FI
(PR->FI)	IN	IP
(PR->FI)	RE	RS
(SY->SY)	CS	CS
(SY->PR)	CP	CP
(SY->VE)	CV	CV
(SY->FI)	CF	CF
(SY->SY)	LI	LI
(PR->PR)	MS	MS

Example

In Predict Version 4.1 you defined a UDE with object type name Trigger and Code TI. In Predict Version 4.2, Trigger is the name of a predefined object type and is not permitted as a UDE.

If you call the function Conversion defaults, the following screen appears:

```

13:41:46          ***** P R E D I C T  4.2.2  *****                2002-07-31
                        - Conversion Defaults -
                                                Added 2002-07-31 at 16:03
                                                by GER
Object type code      Object type name      Retrieval model
                        TRIGGER .....
    
```

The function lists all UDEs which are in conflict with the new version. Because the code TI is not reserved, this does not appear in the list and does not need to be changed. You do, however, have to change the object type name Trigger before you can convert your data from Version 4.1. Enter under Object type name a new name (which is not reserved) for your UDE and press ENTER.

Step 5 - Convert the Data on the Predict System File to 4.2 Format

(Job I200, Step 0606)

This job converts Predict 4.1 data to Version 4.2 format. If the data on your Predict system file is already in Version 4.2 format, a corresponding message is returned.

```

LOGON SYSDICCO
MENU
CONVERT VERSION42
FIN
    
```

Now the data is in Version 4.2 format. We recommend you save your Predict system file in Version 4.2 format before proceeding with the steps below.

▶ Step 6 - Relink your Natural Nucleus

(Job I060 for Batch Mode, Job I080 for Online Operation)

Predict requires the following Natural parameter settings:

Note:

The size parameters are only recommendations. It may be necessary to adapt these values to your particular environment.

Note:

Setting BPSFI to ON may cause a NAT0933, because programs with identical names are contained in different libraries starting with the prefix SYSDIC. You are recommended to set BPSFI=OFF.

- DATSIZE must be at least 200.
- SSIZE=64
- RI=OFF
- If you are using work files, you are recommended to specify WORK=(...,OPEN=ACC) instead of using the Natural default.
- If Predict XRef data is to be used:
set the XREF parameter to ON or FORCE.

Adapt your Natural parameter module with the new parameters and assemble it.

Link the new Natural parameter module and the following modules to the environment-independent part of the Natural nucleus:

Natural Version	Operating System	Module	Load Library
3.1	BS2000/OSD	PRDXREF	NAT31n.MOD
3.1	VM/CMS	PRDXREF	NAT31n.TAPE
3.1	OS/390	PRDXREF	NAT31n.LOAD
3.1	VSE/ESA	PRDXREF	NAT31n.LIBR

Note:

For Natural Version 3.1.5, use Module PRDXR34.

For details see the **Natural Installation documentation for Mainframes** and the **Natural Operations documentation for Mainframes**.

▶ Step 7- Add Default Definitions

If you are using Predict Security, you should add default definitions for the new object types using the function Add NSC Default Definitions.

This function is used to add the NSC external object types and default values for these. If an NSC external object type is specified, a window appears in which you can define the access modes for this type. If no NSC external object is specified, a series of windows appears in which you can define the access modes for all four types.

```

17:34:12          ***** P R E D I C T 4.2.2 *****          2002-07-31
Plan    7          - Maintain NSC Definitions -

+-----+ NSC External Object Type
! Default for NSC ext. object type PL !
!                                     ! PO PRD-Docu-Object
! Read      Y (Y,N)                   ! PE PRD-Ext-Object
! Add       Y (Y,N)                   ! PF PRD-Function
! Modify    Y (Y,N)                   ! PL PRD-3Gl-Library
! Delete    Y (Y,N)                   ! ' ' All
+-----+

```

When the access mode values have been specified, a report list is created of default definitions to be added. Confirm this list to add the definitions to Natural Security.

Note:

Only objects contained in the report list will be added. You should page to the end of this list to make sure it is complete.

Note:

This function can be run again at any time, for example after adding new user-defined object types in metadata administration. This function adds default definitions for the new object types.

▶ Step 8 - Load the Predict Description of the Predict System File

(Job I500, Step 0605)

This step is optional. Please note that, due to the number of checks performed by the Coordinator when loading this dataset, this step may take a long time.

The installation dataset PRD42n.DATA contains a description of the Predict 4.2 system file in Migrate 4.2 format. Load the description into the Predict system file with the Predict Coordinator.

Note:

No support is guaranteed if you manipulate the Predict system file with your own programs.

The following syntax is used:

```

LOGON SYSDICBE
MENU
LOAD OBJECTTYPE ALL,REPLACE=Y,ADA=N
FIN

```

If a previous import operation with the Coordinator terminated abnormally for any reason, the Coordinator FDIC is locked and a corresponding message is returned. Enter the following commands to clear the Coordinator FDIC:

```

LOGON SYSDIC
MENU
SPECIAL REFRESH
FIN

```

▶ Step 9 - Load the Predict Example Data

(Job I500, Step 0606)

This step is optional. Please note that, due to the number of checks performed by the Coordinator when loading this dataset, this step may take a long time.

The installation dataset PRD42n.DEMO contains the example data in Migrate 4.2 format. Load the description into the Predict system file with the Predict Coordinator. The following syntax is used:

```
LOGON SYSDICBE
MENU
LOAD OBJECTTYPE ALL,REPLACE=Y,ADA=N
FIN
```

If a previous import operation with the Coordinator terminated abnormally for any reason, the Coordinator FDIC is locked and a corresponding message is returned. Enter the following commands to clear the Coordinator FDIC:

```
LOGON SYSDIC
MENU
SPECIAL REFRESH
FIN
```

▶ Step 10 - Install Natural Construct Interface

If you are working with Natural Construct Version 4.3.n, use the Natural INPL utility to install the interfaces of Natural Construct using dataset CST431.CP42 as input.

Your inplace conversion is now complete