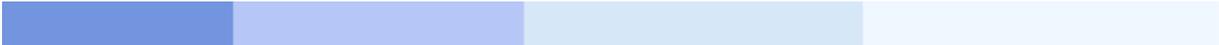




PREDICT

Installation
Version 4.2.2 for UNIX

 **SOFTWARE AG**



This document applies to Predict Version 4.2.2 and to all subsequent releases. Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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Predict Installation on UNIX

- Installation Prerequisites
Provides an overview of the product requirements and the basic installation steps.
- Setup and Installation of Predict on UNIX
Describes the steps involved to install and set up Predict.
- Preparing your Natural/Adabas Environment for Working with Predict
Provides an overview of the parameters that must be set before you can start working with Predict.
- Applying Service Packs or Subsequent System Maintenance Levels
Describes the steps involved when you upgrade an existing Predict environment.

Installation Prerequisites

This section contains general information on the prerequisites needed before installing and setting up Predict on a UNIX platform.

The information contained in this section is independent of hardware type and platform.

This section covers the following topics:

- Important Notices
- Installation Package
- Space Requirements
- Product Requirements
- Other Related Software AG Products
 - Entire Net-Work
 - Accessing the Dictionary Server with Natural for Windows
- Using Predict in Heterogeneous Environments
- Which Installation Method?
 - First-Time Installation
 - Upgrading to a new Version of Predict with Inplace Conversion
 - Upgrading from Version 3.4 of Predict
 - Considerations Prior to Upgrading to Version 4.2

Product-specific installation, configuration and installation verification procedures are described in the section Setup and Installation of Predict on UNIX.

Important Notices



For users of Predict Version 3.4 with Natural Version 4.1:

If you are using Predict Version 3.4 with Natural Version 4.1 and want to migrate to a newer version, it is necessary to perform the following actions in the order given below:

1. Perform a Predict Unload operation using Predict Version 3.4 under Natural Version 4.1.
2. Install Natural Version 5.1.
3. Install Predict Version 4.2.
4. Perform a Predict Load operation using Predict Version 4.2.

Note:

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

Installation Package

The installation package containing Software AG products is available on ISO 9660 CD-ROM in **cpio** format.

Space Requirements

- For the Natural programs, you require approximately 48 MB of disk space, plus an additional 66 MB of disk space for the installation.
- For the database, you require the following:

FDIC	
ASSO	1188 blocks (2kB)
DATA	1000 blocks (4kB)
Coordinator FDIC	
ASSO	1188 blocks (2kB)
DATA	1000 blocks (4kB)

Note:
 WORK must be at least 20 MB.

Product Requirements

The products listed below must be installed in order to use Predict 4.2.

Product Name (Product ID)	Requirements
Natural (NAT)	<p>Natural 5.1.1 Patch Level 2 or above.</p> <p>The following parameter settings are recommended during the installation of Predict 4.2:</p> <ul style="list-style-type: none"> ● MADIO=0 ● MAXCL=0 ● MT=0 ● RI=OFF ● WORK: Workfile 1 must be specified in portable format. <p>The Natural buffer pool must be available.</p> <p>For information on the recommended Natural parameter settings after a successful Predict installation see Natural Parameters in the section Preparing your Natural/Adabas Environment for Working with Predict.</p>
Adabas (ADA)	<p>Adabas 3.1.1.24 or above.</p> <p>The following Adabas parameter should be set during the installation of Predict 4.2:</p> <ul style="list-style-type: none"> ● LWP = 100000 or greater ● OPTIONS: The option TRUNCATION must be set. <p>For information on the recommended Adabas parameter settings after a successful Predict installation see Adabas Parameters in the section Preparing your Natural/Adabas Environment for Working with Predict.</p>

Other Related Software AG Products

These products are not necessary in order to use Predict 4.2, but if they are installed, the following requirements must be met.

Product Name (Product ID)	Requirements
Adabas SQL Server (ESQ)	Adabas SQL Server Version 1.4.2 or above. Note: To enable Predict access to Adabas SQL Server, you have to relink your Natural environment with the command Make natural esq=yes ada=dyn.
Natural Security	The Natural Security version that corresponds to your Natural version.
Natural Construct (CST)	Natural Construct Version 3.3.4 or above.
Entire Access	Entire Access is required if you need to access any of the following SQL database systems. Access to SQL databases is required for Incorporation functions. You do not need access to SQL databases to generate CREATE statements. The following SQL database systems are supported: <ul style="list-style-type: none"> ● Adabas D 11 or above ● INFORMIX 7.1 or above ● INGRES II or above ● ORACLE 8 or above ● SYBASE 11.04 or above

Entire Net-Work

- Entire Net-Work 2.1.1 for UNIX or above

This product is required if you are using Predict in a heterogeneous environment.

When the Predict FDIC file is shared between Natural on mainframe and Natural on a Windows or UNIX platform, Entire Net-Work must be used. For details concerning each platform, see the corresponding **Installation documentation**.

Accessing the Dictionary Server with Natural for Windows

With dictionary servers, you can access remote DDMs, free rules and automatic rules maintained in Predict once you have access to Predict on a mainframe or UNIX host. Predict rules can only be used by accessing Predict on a UNIX or mainframe server.

Additional Prerequisites

The following products must be installed in addition to the products listed above under Required Products:

Client Side
<ul style="list-style-type: none"> ● Natural for Windows 4.1.2 or above ● Entire Net-Work 2.6.1 for Windows or above
Server Side
<ul style="list-style-type: none"> ● Entire Net-Work for UNIX 2.1.1 or above ● Natural for UNIX 5.1.1 or above ● Adabas 3.1.1 or above

Starting the Server

Please read the **Natural RPC documentation** before starting the RPC server. The dictionary server name must be known in order to set up the remote dictionary access on the client side.

Accessing the Server

Please ask your data center for the appropriate settings to access EntireX.

Before starting Natural, define the dictionary server using the Natural for Windows NATPARM utility with the following two steps:

1. Define a logical dictionary server. For this you need to know:
 - the server name of the dictionary server (DDM server) that has been defined to the Entire Broker on the server system.
 - the node name on which this server is running. This is the name of the broker.

Ask your data center for these names.

The logical dictionary server is defined in the menu Global CONFIG File > Dictionary Server Assignments.

2. Set the parameter USEDIC (remote dictionary access) to a logical dictionary server name that has been defined in the global CONFIG file.

When running Natural using this parameter module, you must have access to the server. To check whether you are connected to the server, use the command MENU from SYSRPC to ping the server. You therefore need to define the server using the SERVER MAINTENANCE option.

Please ensure that the Server Node Classification has been set to the appropriate values. You can then use the SERVER COMMAND EXECUTION option to ping the server. The server should reply "I'm still up!".

Note:

It is not necessary to generate a client stub to access the server.

Using Predict in Heterogeneous Environments

The following applies:

- If you are using Natural on the mainframe, the Predict system file FDIC must be located in the mainframe database.
- If you want to access FDIC only under Natural for Windows, UNIX or OpenVMS platforms, FDIC can be located in an Adabas database on any of these platforms.
- If you share the FDIC file between Natural on the mainframe and a Natural for Windows or UNIX installation, your FDIC file must be located on the mainframe and you need to configure the translation definitions in Entire Net-Work. Add the following translation definitions to your Entire Net-Work on the mainframe:

```
Translate Define ADD ID=(<FDIC-DBnr>,<FDIC-Fnr>) Field=LO, FORMAT=(A,33,X,2)
Translate Define ADD ID=(<FDIC-DBnr>,<FDIC-Fnr>) Field=LK, FORMAT=(X,2,A,88)
Translate Define ADD ID=(<FDIC-DBnr>,<FDIC-Fnr>) Field=LJ, FORMAT=(A,16,X,2)
Translate Define ADD ID=(<FDIC-DBnr>,<FDIC-Fnr>) Field=L2, FORMAT=(X,2,A,32)
```

- For the Predict Coordinator FDIC file, the same translation definition as described above must be configured, but using the following syntax. Replace the ID parameter in the four above definitions with:

```
ID=(<Coordinator-DBnr>,<Coordinator-Fnr>)
```

- If you are using the Predict Coordinator, it must be installed on the same platform as the main FDIC.
- Set the Coordinator defaults parameter Clear with System Utility to N.

Which Installation Method?

The installation method you choose depends on whether Predict is already installed at your site. There are two methods available: first-time installation and inplace conversion.

First-Time Installation

If you are installing Predict for the first time or in an environment where Predict is not yet installed, go straight to the section First-Time Installation.

Upgrading to a new Version of Predict with Inplace Conversion

When upgrading from Version 4.1 of Predict, data in the format of the previous version must be converted to Predict 4.2 format.

The Predict data is converted directly on your Predict system file to Predict 4.2 format.

Upgrading from Version 3.4 of Predict

Note:

If the last Predict version installed in your environment was Version 3.4 or below, delete all modules no longer used by Predict since Version 4.1 with dataset PRD42n.DE41 using the Natural utility INPL.

See also the Important Notices in the Installation Prerequisites.

Then perform a first-time installation and then transfer the data using Predict Coordinator.

You are strongly recommended to unload the data in the source environment using Internal-ID=Y.

Considerations Prior to Upgrading to Version 4.2

Superfluous Fields

A Predict system file converted with inplace conversion will still contain a number of Adabas fields no longer used in Predict 4.2. These can be ignored.

User Exit Routines

Predict provides a number of user exits which can be used to customize many Predict functions to meet special needs. Sample user exit routines illustrating the use of user exits and explaining the parameters are delivered with Predict.

All user exit routines from previous Predict versions with the prefix U- together with their parameter data areas will be replaced by new sample routines during the installation.

Other Programs Delivered in Source Form

In addition to user exits, a number of other Predict programs are delivered in source form. During installation, these source programs replace those delivered with the previous Predict version.

The following source programs in the library SYSDIC are replaced:

EXIT	MAIN	MAINM1	PUNCH01
------	------	--------	---------

The following type-dependent user exits are also replaced:

ACM**EX	CAT**EX	PUR**EX
---------	---------	---------

Note:

The asterisks above represent an object type code, for example FI or SY.

If you adapted any of these programs to meet special needs at your site, save them to a different library before starting the installation.

User Programs which access the Predict System File

All fields in the Predict system file (FDIC) that have been modified since the last version are assigned the keyword SAG-PRD-V42-MOD.

All new fields in Predict 4.2 are assigned the keyword SAG-PRD-V42.

All fields that are no longer used in Predict 4.2 are assigned the keyword SAG-PRD-V42-DEL.

If you have written your own programs which access these fields in the Predict system file, check that these programs are still compatible with these modified fields.

To access Predict data, use the user exit USR1051N.

Help Texts

Predict supplies a large number of online help texts as Natural text members with the prefix H- in the library SYSDIC. These texts can be customized and extended with the special function Maintain Predict Help Texts.

All help texts with the prefix H- are replaced during installation. To prevent user-modified help texts being replaced with new SAG-supplied texts, rename the prefix H- of modified help texts to T-.

If a help text with the prefix T- exists, this is always used by the Predict help system instead of the standard help text with the prefix H-.

Setup and Installation of Predict on UNIX

This section describes step-by-step how to set up and install Predict under the UNIX operating system. This section covers the following major topics:

- Adding a User Account for Administration of Software AG Products
 - Installation Overview
 - Steps for Both Installation Methods
 - First-Time Installation
 - Upgrade Installation - Inplace Conversion Method
-

Adding a User Account for Administration of Software AG Products

In this section, the following is assumed:

- The user account for the administrator of Software AG products is called `sag`.
- The group to which the administrator and all users of Software AG products are assigned is called `sag`.
- The home directory for the user `sag` is `/usr/SAG`.
- The root directory for Software AG products is `/usr/SAG`.

To perform these steps, use an appropriate system administration tool.

1. Create the administrator's account and group

1. Create one administrator's account and one group for all Software AG products when you install your first Software AG product.
2. Define an administrator account to which all of the Software AG products installed at your site belong. Since all environment definition files for the products are written for the Bourne shell, this shell is required as the login shell for the administrator account.
3. Define a group to which the administrator and all users of Software AG products belong.
4. Create a login directory for the user `sag`.

Example:

It is assumed that user and group accounts are defined in the corresponding files in `/etc`. Depending on the settings of `/etc/nsswitch.conf` you might have to enter account information elsewhere.

The following is a possible entry in the system file `/etc/group`:

```
sag:*:21:sag
```

The following is a possible entry in the system file `/etc/passwd`:

```
sag:x:100:21:SAG - Product Administrator:/usr/SAG:/bin/sh
```

2. Define the SAG environment variable

The environment variable `SAG` defines the root directory for all Software AG products (which is also the home directory of the user `sag`) and is usually the home directory of the administrator account. In the Bourne shell you can define it as follows:

```
SAG=/usr/SAG ; export SAG
```

3. Ensure that prerequisite software is installed

For a list of the prerequisite software see Required Products.

Installation Overview

The steps to be taken depend on which installation method you choose.

- **Steps for Both Installation Methods**
The steps described in this subsection are required for both methods of installing Predict. Perform these steps then continue with first-time installation or upgrade installation (inplace conversion) method.
- **First-Time Installation**
Use this method if you are installing Predict for the first time or in an environment where Predict is not yet installed.
- **Upgrade Installation (Inplace Conversion from a Previous Version)**
If you have already used Predict Version 4.1 and a Predict system file (FDIC) containing data in the format of that version exists, the data must be converted to Predict 4.2 format. The Predict data is converted directly on that file to Predict 4.2 format.

Steps for Both Installation Methods

The following steps are required for both methods of installing Predict. Perform these steps then continue with first-time installation or inplace conversion method. See the following list for an overview of the necessary steps:

- Step 1: Mount Your CD-ROM Drive
- Step 2: Start the Installation Process
- Step 3: Enter a Valid CD-ROM Directory
- Step 4: Accept the License Agreement
- Step 5: Enter the \$SAG Environment Variable
- Step 6: Specify the Location of the License File
- Step 7: Confirm Your Installation Settings
- Step 8: Copy Files
- Step 9: Specify Your Natural and/or Adabas Environment
- Step 10: Select a Natural Parameter Module
- Step 11: Select an Installation Type

Step 1: Mount Your CD-ROM Drive

Step 2: Start the Installation Process

The installation procedure examines the environment variable DISPLAY to determine whether to run in graphical or character mode. If the environment variable DISPLAY is set to an active X-Server, the graphical installation mode starts, otherwise the character installation mode starts.

 **To set the DISPLAY environment variable, enter the following shell commands (this example is for Bourne shell):**

- ```
DISPLAY=" <machine_name>:0"
export DISPLAY
```

replacing `<machine_name>` by the name of your machine.

Note that the graphical mode can only start if there is an X-Server currently active.

### To install Predict

1. To perform this step, you must be either the user `sag` or a member of the group `sag` to which the administrator and all users of Software AG products are assigned. Do not perform this step as the user `root`.

Start the installation procedure from a writable working directory. We recommend `$SAG/INSTALL`.

Enter the command:

```
sh <PredictRoot>/SETUP.UX
```

where `<PredictRoot>` is the starting directory on your product CD-ROM.

The setup program is started and guides you through the installation. During installation, you have to provide the license key.

#### **Note:**

If you run the installation procedure in text-only mode, at each command prompt, you must type in the exact wording (for example: "accept" for "accept", not just "y" or the ENTER key).

Once the installation has been successfully completed, you can remove the working directory and all of its contents.

2. The installation procedure creates the file `sagenv.new`. This file contains the settings for all required environment variables. Insert these settings into your profile (for example, `.profile`).

#### **Note:**

The following descriptions of installation steps assume that the graphical installation mode is used.

## Step 3: Enter a Valid CD-ROM Directory

In this screen, you have to confirm the path of your CD-ROM drive.

By default, the path of the mounted CD-ROM drive is displayed. You can enter a different path or use the Browse button to change the path.

Click Next to proceed.

## Step 4: Accept the License Agreement

In this screen, the license agreement is displayed. You must accept it to proceed with the installation.

## Step 5: Enter the \$SAG Environment Variable

In this screen, you can change the value of the `$SAG` environment variable, which is the path name of the directory tree where all Software AG products are installed.

By default, `$SAG` is displayed. You can enter a different path or use the Browse button to change the path.

## Step 6: Specify the Location of the License File

In this screen, you can specify the directory of the license file.

By default, <Your Path>/common/LKey/prd42.xml is displayed, where <Your Path> stands for the path name where your license file is located. You can enter a different path or use the Browse button to change the path.

If you click on the View button, the license file content is displayed in a separate screen. Click OK or Quit to go back to the license file screen.

Click Next to proceed.

## Step 7: Confirm Your Installation Settings

In this screen, your installation settings are displayed. Click on the Back button to review or change your settings.

Click Next to begin copying files.

## Step 8: Copy Files

In this screen, the copy process is shown. The progress of the copy process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

## Step 9: Specify Your Natural and/or Adabas Environment

In this screen, you can specify the path of either your Natural or Adabas environment or specify both paths.

You can enter different paths or use the Browse button to change the paths.

Click Next to proceed.

### **Note:**

Predict requires either a Natural or an Adabas environment (or both) present before the installation.

If only a Natural environment is present, only Predict programs are available. The Installation then assumes that the Predict system file is available in a remote environment.

If only an Adabas environment is present, only the Predict system file can be installed.

## Step 10: Select a Natural Parameter Module

In this screen, you can specify an existing Natural parameter module which will be used as template for a new Predict parameter module.

Select NATPARM from the selection box if you want to use the NATPARM module without changing FNAT/FUSER settings.

Click Next to proceed.

In the following screen, confirm your FNAT/FUSER settings.

Click Next to proceed.

## Step 11: Select an Installation Type

In this screen, you can select the installation method.

Choose New for a first-time installation.

Choose Update if you want to upgrade from an existing Predict 4.x.

Click Next to proceed.

## First-Time Installation

Use this method if you are installing Predict for the first time or in an environment where Predict is not yet installed. See the following list for an overview of the necessary steps:

- Step 12: Select Postinstallation Steps
- Step 13: Specify the Main FDIC File DBID
- Step 14: Specify the Main FDIC File FNR
- Step 15: Specify the Coordinator FDIC File DBID
- Step 16: Specify the Coordinator FDIC File FNR
- Step 17: Load Predict Modules into Natural
- Step 18: View the Readme File
- Step 19: Define the Predict Libraries to Natural Security Manually
- Step 20: Define the Coordinator FDIC in the New SYSDIC Manually
- Step 21: Load the Predict Description of the Predict System File
- Step 22: Load the Predict Example Data

## Step 12: Select Postinstallation Steps

In this screen, you can specify which steps are performed during postinstallation.

You can specify that you want the Predict modules to be installed or that the Predict System File shall be created. You can also specify both of the above options.

### Note:

You are recommended to leave all items checked.

Click Next to proceed.

## Step 13: Specify the Main FDIC File DBID

In this screen, you can select the database ID (DBID) for your Main FDIC system file.

Click Next to proceed.

## Step 14: Specify the Main FDIC File FNR

In this screen, you can enter the file number (FNR) for your Main FDIC system file.

You can either choose an existing FNR from the selection box or enter an unused file number if you want to create a new Main FDIC file.

Click Next to proceed.

Either confirm the settings made in Steps 13 and 14 by choosing Yes or decline them by choosing No.

## Step 15: Specify the Coordinator FDIC File DBID

In this screen, you can select the database ID (DBID) for your Coordinator FDIC system file.

Click Next to proceed.

## Step 16: Specify the Coordinator FDIC File FNR

In this screen, you can enter the file number (FNR) for your Coordinator FDIC system file.

You can either choose an existing FNR from the selection box or enter an unused file number if you want to create a new Coordinator FDIC file.

Click Next to proceed.

## Step 17: Load Predict Modules into Natural

In this screen, the Predict modules are loaded into Natural. The progress of the load process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

## Step 18: View the Readme File

In this screen, you can specify whether you want to view the Readme file. By default, the confirmation box is checked. Uncheck the box if you do not want to view the Readme file.

Click Next to proceed.

## Step 19: Define the Predict Libraries to Natural Security Manually

This step must be performed manually by starting Natural with PARM=PRDPARM.

If Natural Security is installed, define the following libraries to Natural Security:

SYSDIC, SYSDICBE, SYSDICCO, SYSDICH and SYSDICMA.

## Step 20: Define the Coordinator FDIC in the New SYSDIC Manually

This step must be performed manually by starting Natural with PARM=PRDPARM.

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (using the newly installed FDIC file) and perform the following:

- Log on to the library SYSDIC
- Call the Function Main Menu by entering MENU at the NEXT prompt
- Call the function Defaults > Coordinator Defaults
- Specify the parameters Coordinator FDIC DBID/FNR with the file number and database ID of the Coordinator FDIC added in Steps 15 and 16.

## Step 21: Load the Predict Description of the Predict System File

This step is optional.

To load the Predict description of the Predict system file, enter:

```
setenv WRKF1 <Your Path>/prd/v421/INSTALL/PRD421.DAT
```

Start Natural with PARM=PRDPARM.

When you execute this step in batch mode, the CMSYNIN file should contain the following:

```
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 in batch mode:

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

## Step 22: Load the Predict Example Data

This step is optional.

To load the Predict example data, enter:

```
setenv WRKF1 <Your Path>/prd/v421/INSTALL/PRD421.DEM
```

Start Natural with PARM=PRDPARM.

When you execute this step in batch mode, the CMSYNIN file should contain the following:

```
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 in batch mode:

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

Your first-time installation is now complete.

## Upgrade Installation - Inplace Conversion Method

Use this method if you want to upgrade from an existing Predict 4.x. See the following list for an overview of the necessary steps:

- Step 12: Select Postinstallation Steps
- Step 13: Specify the Main FDIC File DBID
- Step 14: Specify the Main FDIC File FNR
- Step 15: Load Predict Modules into Natural
- Step 16: View the Readme File
- Step 17: Specify the Conversion Defaults Manually
- Step 18: Convert the Data on the Predict System File to Version 4.2 Format
- Step 19: Load the Predict Description of the Predict System File
- Step 20: Load the Predict Example Data

### Step 12: Select Postinstallation Steps

In this screen, you can specify which steps are performed during postinstallation.

You can specify that you want the Predict modules to be installed or that the Predict System File shall be created. You can also specify both of the above options.

**Note:**

It is recommended to leave all items checked.

Click Next to proceed.

### Step 13: Specify the Main FDIC File DBID

In this screen, you can select the database ID (DBID) for your Main FDIC system file.

This screen is skipped if the selected parameter module contains an FDIC specification.

Click Next to proceed.

### Step 14: Specify the Main FDIC File FNR

In this screen, you can enter the file number (FNR) for your Main FDIC system file.

You can either choose an existing FNR from the selection box or enter an unused file number if you want to create a new Main FDIC file.

This screen is skipped if the selected parameter module contains an FDIC specification.

Click Next to proceed.

### Step 15: Load Predict Modules into Natural

In this screen, the Predict modules are loaded into Natural. The progress of the load process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

## Step 16: View the Readme File

In this screen, you can specify whether you want to view the Readme file. By default, the confirmation box is checked. Uncheck the box if you do not want to view the Readme file.

Click Next to proceed.

## Step 17: Specify the Conversion Defaults Manually

This step must be performed manually by starting Natural with PARM=PRDPARM.

Before performing the data conversion, logon 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 user-defined object type with the 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 user-defined object type.

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 user-defined object types 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 Predict Version 4.1. Enter under Object type name a new name (which is not reserved) for your user-defined object type and press ENTER.

## Step 18: Convert the Data on the Predict System File to 4.2 Format

This step must be performed manually by starting Natural with PARM=PRDPARM.

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

To set up your environment so you can use the Coordinator, start a Predict 4.2 online session (using the newly installed FDIC file) and perform the following:

- Log on to the library SYSDICCO
- Call the Function Main Menu by entering MENU at the NEXT prompt
- Call the function C > Version 4.1 data

When you execute this step in batch mode, the CMSYNIN file should contain the following:

```

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 19: Load the Predict Description of the Predict System File

This step is optional.

To load the Predict description of the Predict system file, enter:

```
setenv WRKF1 <Your Path>/prd/v421/INSTALL/PRD421.DAT
```

Start Natural with PARM=PRDPARM.

When you execute this step in batch mode, the CMSYNIN file should contain the following:

```
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 given. Enter the following commands to clear the Coordinator FDIC in batch mode:

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

## Step 20: Load the Predict Example Data

This step is optional.

To load the Predict example data, enter:

```
setenv WRKF1 <Your Path>/prd/v421/INSTALL/PRD421.DEM
```

Start Natural with PARM=PRDPARM.

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 given. Enter the following commands to clear the Coordinator FDIC in batch mode:

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

Your upgrade installation is now complete.

# Preparing your Natural/Adabas Environment for Working with Predict

After you have successfully installed Predict, the following parameters must be set before you can start working with Predict.

## Natural Parameters

Natural parameters can be changed with the Natural for UNIX utility NATPARM. See the **Natural for UNIX Operations documentation** for more information.

|                   |                                                                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MADIO             | Must be set to 0.                                                                                                                                                                                                                 |
| MAXCL             | Must be set to 0.                                                                                                                                                                                                                 |
| FDIC, FNAT, FUSER | Enter the numbers of the current Predict and Natural system files.                                                                                                                                                                |
| OPRB              | OFF.                                                                                                                                                                                                                              |
| WORK              | Workfiles 1, 2, 3 and 5 must be specified in ASCII format for every Predict user. This can be done by using UNIX environment variables as workfile names. Set different values for the environment variables for different users. |

## Adabas Parameters

There are two methods of setting these Adabas parameters:

- If Adabas is running, use the Adabas utility ADAOPR.
- If Adabas is not running, declare these parameters as start parameters for the Adabas utility ADANUC.

|         |                                                             |
|---------|-------------------------------------------------------------|
| LWP     | Must be at least 100,000.                                   |
| OPTIONS | The option TRUNCATION must be set in the OPTIONS parameter. |

# Applying Service Packs or Subsequent System Maintenance Levels

When migrating from Predict Version 4.2.1 to Predict Version 4.2.n ( $n > 1$ ), please observe the information below. If you have already installed Predict Version 4.2.1 in your environment, no conversion of your FDIC file is necessary.

Perform the following steps:

▶ **Step 1: Save the user exit routines, other programs delivered in source form, and help texts if you modified them**

▶ **Step 2: Start the installation process.**

Enter the command:

```
sh saginpl/$SAG/common/bin
```

▶ **Step 3: Confirm your Natural version**

In this screen, your Natural installation settings are displayed. Click on the Browse button to change your settings.

Click Next to proceed.

▶ **Step 4: Select a Natural parameter module**

In this screen, you can specify an existing Natural parameter module which will be used as template for a new Predict parameter module.

Select NATPARM from the selection box if you want to use the NATPARM module without changing FNAT/FUSER settings.

Click Next to proceed.

In the following screen, confirm your FNAT/FUSER settings.

Click Next to proceed.

▶ **Step 5: Select the INPL dataset for update**

In this screen, you can choose an INPL dataset for update.

**Note:**

This dataset can either represent a summary update or a system maintenance level.

**Important:**

Set the dataset format to Portable.

Click Next to proceed.

## ▶ **Step 6: Specify the location of the license file**

In this screen, you can specify the directory of the license file.

By default, <Your Path>/common/LKey/prd42.xml is displayed, where <Your Path> stands for the path name where your license file is located. You can enter a different path or use the Browse button to change the path.

If you click on the View button, the license file content is displayed in a separate screen. Click OK or Quit to go back to the license file screen.

Click Next to proceed.

## ▶ **Step 7: Load Predict modules into Natural**

In this screen, the Predict modules are loaded into Natural. The progress of the load process is indicated by a bar with a percentage scale.

Wait for the process to finish, then click Next to proceed.

## ▶ **Step 8: View the readme file**

In this screen, you can specify whether you want to view the Readme file. By default, the confirmation box is checked. Uncheck the box if you do not want to view the Readme file.

Click Next to proceed.

## ▶ **Step 9: Restore the objects you saved in Step 1 of this description.**