

Installing the Natural TIAM Interface

This document describes step by step how to install the Natural TIAM Interface.

The following topics are covered:

- Prerequisites
- Installation Tape for the Natural TIAM Interface
- Installation Procedure for the Natural TIAM Interface
- Installation Verification

For detailed information on the following topics, refer to Natural under TIAM (in the Natural TP Monitor Interfaces documentation).

- Structure of the Natural TIAM Interface
- Parameters in Macro NAMTIAM
- Common Memory Pools under TIAM
- Natural Shared Nucleus

Notation *vrs* or *vr*: If used in the following document, the notation *vrs* or *vr* stands for the relevant version, release, system maintenance level numbers.

Prerequisites

Base Natural must be installed under BS2000/OSD.

See Installing Natural under BS2000/OSD.

Installation Tape for the Natural TIAM Interface

The installation tape contains the dataset listed below. The sequence of the datasets on tape is shown in the **Report of Tape Creation** which accompanies the installation tape.

Dataset Name on Tape	Dataset Name on Disk	Contents
NRT nnn .MACS	NRT nnn .MAC	Macros necessary for Natural/TIAM
NRT nnn .JOBS	NRT nnn .JOBS	Example job library for Natural/TIAM

The notation nnn in dataset names represents the version number of the product.

Copying the Tape Contents to Disk

If you are not using SMA, use the procedure described below. In this procedure, the values specified below must be supplied.

To copy the datasets from tape to disk, perform the following steps:

1. Copy the Library SRV nnn .LIB from Tape to Disk

This step is not necessary if you have already copied the library SRV nnn .LIB from another Software AG tape. For more information, refer to the element #READ-ME in this library.

The library SRV nnn .LIB is stored on the tape as the sequential file SRV nnn .LIBS containing LMS commands. The current version nnn can be obtained from the **Report of Tape Creation**. To convert this sequential file into an LMS-library, execute the following commands:

```

/IMPORT-FILE  SUPPORT=*TAPE(FILE-NAME=SRV $nnn$ .LIBS, -
/  VOLUME=<volser>, DEV-TYPE=<tape-device>)
/ADD-FILE-LINK LINK-NAME=EDTSAM, FILE-NAME=SRV $nnn$ .LIBS, -
/  SUPPORT=*TAPE(FILE-SEQ=3), ACC-METH=*BY-CAT, -
/  BUF-LEN=*BY-CAT, REC-FORM=*BY-CAT, REC-SIZE=*BY-CAT
/START-EDT
@READ  ' / '
@SYSTEM 'REMOVE-FILE-LINK  EDTSAM'
@SYSTEM 'EXPORT-FILE  FILE-NAME=SRV $nnn$ .LIBS'
@WRITE  'SRV $nnn$ .LIBS'
@HALT
/ASS-SYSDTA  SRV $nnn$ .LIBS
/MOD-JOB-SW  ON=1
/START-PROG  $LMS
/MOD-JOB-SW  OFF=1
/ASS-SYSDTA  *PRIMARY

```

Where:

<tape-device> is the device-type of the tape, e.g. TAPE-C4

<volser> is the VOLSER of the tape (see **Report of Tape Creation**)

2. Copy the Procedure COPY.PROC from Tape to Disk

To copy the procedure COPY.PROC to disk, call the procedure P.COPYTAPE in the library SRV*nnn*.LIB:

```
/CALL-PROCEDURE (SRVnnn.LIB,P.COPYTAPE), -  
/ (VSNT=<volser>, DEVT=<tape-device>)
```

If you use a TAPE-C4 device, you may omit the parameter DEVT.

3. Copy all Product Files from Tape to Disk

To copy all Software AG product files from tape to disk, enter the procedure COPY.PROC:

```
/ENTER-PROCEDURE COPY.PROC, DEVT=<tape-device>
```

If you use a TAPE-C4 device, you may omit the parameter DEVT. The result of this procedure is written to the file 'L.REPORT.SRV'.

Installation Procedure for the Natural TIAM Interface

Naming Conventions

In the following text, the library name "*JOBLIB*" stands for

- the example job library (NRT*nnn*.JOBS) if you are **not** using SMA or
- the SMA job library (see SMA parameter JOBLIB in SMA Parameter Group BASIC) if you are using SMA.

Note

Software AG uses the following naming conventions for source elements in the library *JOBLIB*:

A<product-code><function> = Assembler sources

L<product-code><function> = Instruction for TSOSLNK/BINDER

Example: ANATFRNT, ANATRENT, ANATSTUB or LNATFRNT

Therefore Software AG has changed some names (compared with Natural Version 3.1), e.g. the element ABS2STUB was renamed to ANATSTUB

Step 1: Assemble the Natural/TIAM Non-Reentrant Front-End Part

(Job I070, Step 0102)

The front-end part of Natural/TIAM is assembled by generating the macro NAMTIAM. You can generally use the default values of the parameters in macro NAMTIAM.

Modify only the values of those parameters whose default values do not suit your requirements.

For a description of the individual parameters, see Natural TP Monitor Interfaces, Natural under TIAM, Parameters in Macro NAMTIAM.

Assemble source module ANRTRFRNT in the library *JOBLIB*. to generate macro NAMTIAM for the front-end part.

Step 2: Assemble the Natural/TIAM Reentrant Part

(Job I070, Step 0103)

The reentrant part of Natural/TIAM is assembled by generating the macro NAMTIAM. You can generally use the default values of the parameters in macro NAMTIAM.

Modify only the values of those parameters whose default values do not suit your requirements.

For a description of the individual parameters, see Natural TP Monitor Interfaces, Natural under TIAM, Parameters in Macro NAMTIAM.

Assemble source module ANRTRENT in the library *JOBLIB* to generate macro NAMTIAM.

Step 3: Assemble the Natural/TIAM Parameter Module

(Job I080, Step 0109)

Assemble source module ANRTPARM in the library *JOBLIB*.

Step 4: Link the Natural/TIAM Front-End Part

(Job I080, Step 0110)

Use the INCLUDE statements for TSOSLNK contained in LNRTFRNT in the library *JOBLIB*.

Note:

The source module ANATSTUB has been assembled during the installation of Natural for BS2000/OSD.

Installation Verification

1. Call procedure P.STARTNRT in library *JOBLIB* to start Natural under TIAM.
2. Proceed with the steps described in the section Installation Verification for TP Monitor Interface.