

# Installing the Natural TIAM Interface

This document describes how to install the Natural TIAM Interface (product code NRT).

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. For further information on product versions, see Version in the *Glossary*.

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## 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	Contents
NRTvrs.MAC	Macros necessary for Natural/TIAM
NRTvrs.JOBS	Example job library for Natural/TIAM

## Copying the Tape Contents to a BS2000/OSD Disk

If you are not using System Maintenance Aid (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 SRVvrs.LIB from Tape to Disk
- 2. Copy the Procedure COPY.PROC from Tape to Disk
- 3. Copy all Product Files from Tape to Disk

### 1. Copy the Library SRVvrs.LIB from Tape to Disk

This step is not necessary if you have already copied the library SRVvrs.LIB from another Software AG installation tape. For further information, refer to the element #READ-ME in this library. The library SRVvrs.LIB is stored on the tape as a sequential file named SRVvrs.LIBS containing LMS commands. The current version vrs 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=SRVvrs.LIBS,      -
/  VOLUME=volser, DEV-TYPE=tape-device)
/ADD-FILE-LINK LINK-NAME=EDTSAM, FILE-NAME=SRVvrs.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=SRVvrs.LIBS'
@WRITE  'SRVvrs.LIBS'
@HALT
/ASS-SYSDTA  SRVvrs.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, for example: 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 SRVvrs.LIB:

```
/CALL-PROCEDURE  (SRVvrs.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 (*NRTvrs.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

### 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 *Parameters in Macro NAMTIAM* in the *Natural TP Monitor Interfaces* documentation.

Assemble source module *ANRTFRNT* 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 *Parameters in Macro NAMTIAM* in the Natural *TP Monitor Interfaces* documentation.

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 the TP Monitor Interface*.