

# General Installation Information

This document contains general installation information concerning the operating systems OS/390, VSE/ESA, VM/CMS and BS2000/OSD.

The following topics are covered:

- Prerequisites
  - Overview of the Installation Process
  - INPL Format
  - Installation Options
  - Natural System Files
  - Using VSAM System Files
  - Using Installation Jobs Generated by System Maintenance Aid
  - Creating Your Own Installation Jobs
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## Prerequisites

Before you can install the new version of Natural, the following products must already be installed and the following requirements must be met at your site:

- A supported version of the respective operating system must be installed. For the supported versions of the operating systems, refer to Operating/Teleprocessing Systems Required (in the current Natural Release Notes for Mainframes).
- A supported version of Adabas must be installed. For the supported versions, refer to Natural and Other Software AG Products in the current Natural Release Notes for Mainframes.
- As a rule of thumb, each major Software AG product requires approximately 20 MB space in the Adabas database to store the Natural objects supplied by Software AG.

To use VSAM system files, see Using VSAM System Files.

## Overview of the Installation Process

The installation process comprises the following basic parts:

1. Creating an executable module for batch operation.
2. Creating a system file containing the Natural objects (programs, maps, etc.).

Part 1 and Part 2 are described in the sections:

Installing Natural under OS/390

Installing Natural under VSE/ESA

Installing Natural under VM/CMS

Installing Natural under BS2000/OSD

3. Creating executable environments under different TP monitors for using Natural in online mode.  
The steps required for Part 3 are described for each TP monitor in the corresponding section of this document:

Installing the Natural/Com-plete/SMARTS Interface

Installing the Natural CICS Interface

Installing the Natural/IMS/TM Interface

Installing the Natural/TSO Interface

Installing the Natural/UTM Interface

Installing the Natural/TIAM Interface

4. Installing the optional Natural add-on products:

Natural Advanced Facilities \*

Natural Connection \*

Natural for DB2 Database Interface \*

Natural for DL/I Database Interface \*

Natural for VSAM Database Interface \*

Natural Optimizer Compiler \*

Installing the Software AG Editor

Installing the Natural Web Interface Server Extensions

Installing the Entire Systems Server Interface

Installing Natural Security

Installing Natural SAF Security \*

Installing the Natural Net Data Interface

\* For installation procedures not included in this document, refer to the relevant add-on product documentation.

## INPL Format

The instructions frequently refer to the Natural utility INPL. INPL is used to load the Natural system objects (dataset NAT $mmm$ .INPL) into the Natural system files. For details of this utility, refer to the INPL Utility documentation.

## Installation Options

Natural offers various installation options which affect the setting up of your Natural system. For example, you can decide whether or not to use a Natural global buffer pool, a Natural shared nucleus, etc.

These options are described in the Natural Operations for Mainframes documentation or in the Natural TP Monitor Interfaces documentation. You are recommended to read this information before you begin with the installation of Natural.

Before you install Natural-based subproducts in a new Natural Version 4.1 environment, refer to the corresponding subproduct-specific installation description regarding INPL procedures.

## Natural System Files

- **FNAT**

A new FNAT system file is required if you wish to upgrade from a previous Natural version. An empty Adabas file is required for this purpose.

- **FUSER**

The FUSER system file can be used exclusively by the new Natural version or it can be shared by different versions of Natural. See the step Load the FUSER System File in the the appropriate operating-system-specific installation documentation.

- **FDIC**

The FDIC system file can be used exclusively by the new Natural version or it can be shared by different versions of Natural. See the step Load the FDIC System File in the the appropriate operating-system-specific installation documentation.

- **FSEC**

The FSEC system file can be used exclusively by the new Natural version or it can be shared by different versions of Natural. See the step Load the FSEC System File in the the appropriate operating-system-specific installation documentation.

- **Scratch-Pad File**

The Scratch-Pad File is a system file that can be used exclusively by the new Natural version or be shared by different versions of Natural. See step Load the Scratch-Pad File in the the appropriate operating-system-specific installation documentation.

## Using VSAM System Files

If you want to use the Virtual Storage Access Method VSAM for storing your system files, the Natural interface to VSAM is required. For further information on the Natural interface to VSAM, refer to the Natural for VSAM documentation.

It is possible to store the system files of different Software AG products on different data management systems (for example, the Con-nect system file on Adabas and the Natural system file on VSAM). However, if Adabas is available, it is recommended that you use Adabas for **all** system files.

For information about which Software AG products can be used with VSAM system files, please contact Software AG support or your nearest affiliate.

## Using Installation Jobs Generated by System Maintenance Aid

**Note:**

System Maintenance Aid (SMA) is not available for operating system VM/CMS.

The installation of Software AG products is performed by installation *jobs*. These jobs are either created "manually" or generated by System Maintenance Aid (SMA).

For each step of the installation procedures described below, the job number of a job performing the corresponding task is indicated. This job number refers to an installation job generated by SMA.

For information on the concepts and the usage of Software AG's System Maintenance Aid (SMA), refer to the System Maintenance Aid documentation.

## Creating Your Own Installation Jobs

If you are not using System Maintenance Aid, you can use the example installation job of the same job number in the job library on the Natural installation tape. You must adapt this example job to your requirements.

Note that the installation job numbers on the tape are preceded by a product code (see list of job number prefixes below).

### Job Number Prefixes

The installation job numbers on the tape are preceded by a product code (for example, NATI060). The relevant product codes are listed in the table below.

Product Code	Component
NAF	Natural Advanced Facilities
NAT	Batch Natural
NCI	Natural under CICS
NCO	Natural under Com-plete
NDB	Natural for DB2
NDL	Natural for DL/I
NII	Natural under IMS/TM
NRT	Natural for TIAM
NSC	Natural Security
NSF	Natural SAF Security
NTC	Natural Connection
NTI	Natural under TSO
NUT	Natural for UTM
NVS	Natural for VSAM