

Installing Natural Version 5.1.1 for Windows

This document covers the following topics:

- General Installation Information
- Installing Natural
- Installation Procedure Overview
- Installing the XRef GUI Client
- Setting Up SYSPAUL Applications
- Setting Up the Entire System Server Interface

For information on how to install Natural Security, see [Installing Natural Security](#).

For information on how to use the INPL utility to load or scan Natural modules or DDMs from Software AG datasets (for example Natural INPL tapes) from Work File 1, refer to the [INPL Utility documentation](#).

General Installation Information

About Natural Version 5.1.1 for Windows

Natural Version 5.1.1 for Windows is a software product that enables you to fully integrate your personal computer (PC) into the information processing environment of your organization.



Natural Version 5.1.1 for Windows is available as

- development edition for Windows NT/2000,
- runtime edition for Windows 98/ME/NT/2000.

Natural Version 5.1.1 for Windows (in the following referred to as "Natural for Windows") provides a complete application development environment. It can be used to develop efficient user-oriented Natural applications which are source-code compatible with Natural on a mainframe computer and other platforms, for example, UNIX or OpenVMS. In addition, it can also be used in a stand-alone PC environment.

Natural for Windows also permits the use of existing Natural mainframe applications on your PC, enabling the PC to be used as an application workstation.

NaturalX

NaturalX is part of Natural for Windows and is automatically installed with the installation of Natural for Windows.

Natural Web Interface

Natural Web Interface is part of Natural for Windows and is automatically installed with the installation of Natural for Windows.

During the default installation of Natural only the Natural Web Server Extensions for CGI interfaces will be installed. If isapi or nsapi Natural Web Server Extensions are needed, select Custom Installation and specify the Natural Web Server Extensions you prefer.

Natural Runtime Version

If you have purchased the Natural runtime version, only a subset of the Natural functions can be performed that enable you to execute previously created Natural applications.

Natural Security

Natural Security is an add-on product that can be installed after the Natural for Windows installation is complete.

For information on how to install Natural Security, see

- Installing Natural Security

Installing Natural

This section describes how to install Natural under Windows 98/NT/2000.

- Installation Prerequisites
- Installation Procedure Overview
- Starting the Installation Setup Program
- Starting Natural

Installation Prerequisites

Before installing Natural, ensure that your PC fulfills the following requirements.

Administrator Status

The person performing the installation must have administrator status.

Hardware

Processor	500 MHz INTEL Pentium 3 processor or higher.
Hard Disk Space	Approximately 150 MB (NTFS recommended).
RAM	128 MB or higher.
Display	SVGA graphics adaptor and SVGA monitor.
Resolution	800 x 600 or higher with 256 colors or higher. 16-bit true color mode is recommended.
Mouse	Windows compatible mouse.
CD-ROM Drive	A CD-ROM drive to install the software.
Communication Board *	Ethernet or Token Ring.

* only required if you want to use Natural 5.1.1 for Windows 98/ME/NT/2000 in a multi-user network environment.

Software

Operating System

In a Natural development environment:

- Microsoft Windows NT 4.0 SP6 or higher
- Windows 2000 Professional SP1 or higher
- Microsoft Windows 2000 Server, Advanced Server

In a Natural runtime environment:

- Microsoft Windows NT 4.0 SP6 or higher
- Windows 2000 Professional SP1 or higher
- Microsoft Windows 2000 Server, Advanced Server
- Microsoft Windows 98/ME

Installation Procedure Overview

A setup program is provided for installing Natural. This program decompresses the files contained on the installation CD-ROM, copies them to hard disk, and creates a Natural program folder (optionally). The setup program guides you step by step through the installation procedure with explanatory text available with all dialog boxes displayed.

The installation procedure can be used for a first-time installation of Natural as well as for subsequent installations (in which case previous configuration information is used by the setup program).

The actual installation process consists of two phases:

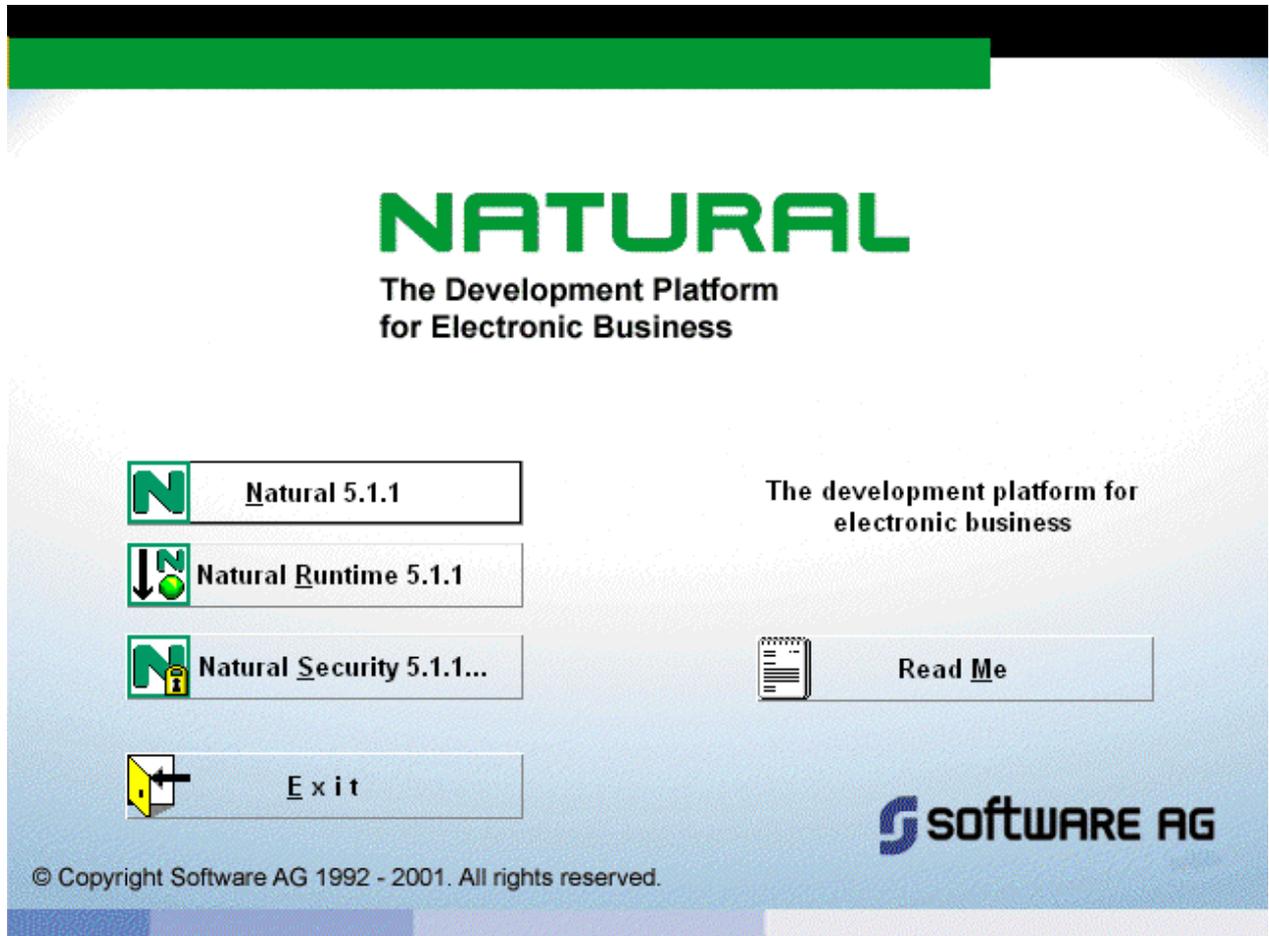
1. The configuration phase: you are prompted to enter certain installation values; other values are automatically included by the setup program. The installation parameters are displayed for confirmation prior to the actual installation. During this phase you may cancel the setup procedure at any time or step back to previous dialogs. No changes to your system will occur during this phase.
2. The installation phase: the setup program installs Natural according to the values entered during the configuration phase.

Note:

You must be an administrator to install Natural on Windows NT Version 4.0 and Windows 2000.

Starting the Installation Setup Program

In the initial installation screen select the desired installation method. See screenshot below.



Natural Security can not be uninstalled without removing the whole Natural environment where Natural Security has been installed.

The following topics are covered in this section:

- Installation Steps for all Setup Types
- Setup-Specific Installation Steps
 - Standard Setup
 - Development Client for Single Point of Development (SPoD) Setup
 - Custom Setup
- Runtime Installation

Before you start the Natural setup program, ensure that your system meets the requirements outlined in section Installation Prerequisites.

Note:

If this is not a first-time installation of Natural, it is recommended that you back-up your current Natural files. In addition, it is recommended that you also save any previously modified files.

Installation Steps for all Setup Types

▶ To run the setup program

1. Close all active Windows applications
2. From the Start menu, choose Run.
3. In the command line, enter:

x:\Setup.exe

where "x" is the letter of the disk drive containing the Natural CD-ROM.

Note:

If the operating system AUTOSTART feature is enabled, the Natural set-up program will automatically be started at the time the Natural CD-ROM is loaded.

The setup program will then be started. You will be prompted for various installation information as described in the Installation Procedure Overview.

▶ Step 1: License Agreement

After the initial welcoming screen the license agreement screen is shown. To proceed with the installation, you have to accept the terms in the license agreement by checking the first box.

Click "Next" to proceed.

▶ Step 2: Enter Customer Information

In this screen enter your customer information. The first line should contain your user name, the second line the name of your organization.

Select the path where the license file can be found. By default, your floppy disk drive (A:\) will be displayed. You can alter the path by clicking on the "Browse" button.

Select the *.xml File that contains your license key.

Note:

If you have not received your license file yet, please contact your local Software AG Customer Support.

Decide whether you want Natural to be installed for anyone using the system on which you are currently installing Natural (default setting) or just for yourself.

Click "Next" to proceed.

▶ Step 3: Migration of the Natural Parameter Modules - optional

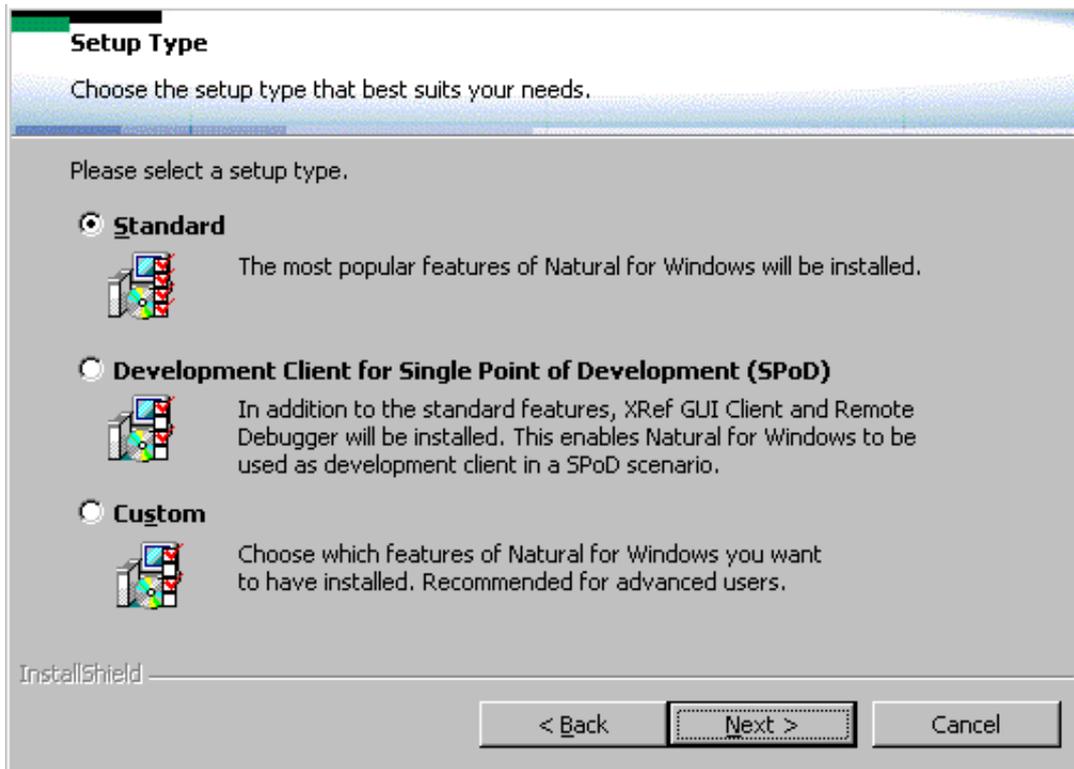
In this screen, you can specify if you want to migrate your parameter modules to Natural Version 5.1.1. This screen only appears if the installation routine detects an older version of Natural on your system.

You can specify no migration or choose a Natural version to migrate from (e.g. Natural for Windows Version 4.1.2). If you migrate your parameter modules to Natural Version 5.1.1, the FNAT, FUSER and Steplib settings of the parameter modules are transferred and changed where necessary.

Click "Next" to proceed.

▶ Step 4: Select the Setup Type

In this screen, you can select the setup type that best suits your needs. You can choose from "Standard", "Development Client for Single Point of Development (SPoD)" and "Custom".



If you select "Standard", the following features will be installed:

- Natural Environment
- Natural Reporter
- Help Compiler
- Samples
- Example Libraries
- NaturalX

Proceed with Standard Setup.

If you select "Development Client for Single Point of Development (SPoD)", all standard features and the following will be installed:

- XRef GUI Client
- Natural Remote Debugger

Proceed with Development Client for Single Point of Development Setup.

If you select "Custom", a new screen appears where you can choose which features you want to be installed. The standard features are preselected.

Proceed with Custom Setup.

Setup-Specific Installation Steps

Standard Setup

With this setup type the standard features are installed.

▶ Step 5: Select the Destination Folder

In this screen, you can select the destination folder where you want Natural to be installed.

The default path is C:\Program Files\Software AG\Natural.

You can change this path by clicking on the "Change" button.

Click "Next" to proceed.

▶ Step 6: Desktop Icons

In this screen, you can decide if you want desktop icons to be displayed or not.

Select "yes" if you wish to display the desktop icons or "no" if not.

Click "Next" to proceed.

▶ Step 7: Confirm the Installation

In this screen, you can view a summary of which features will be installed.

Confirm the installation by clicking on the "Install" button. The files are then copied to your system.

You can also review your choices by clicking the "Back" button. Select "Cancel" to exit the wizard.

▶ Step 8: End the Installation Process

After the files are copied to your system complete the installation process by clicking the "Finish" button in the last screen.

Natural 5.1.1 Standard Setup has been installed successfully.

Development Client for Single Point of Development Setup

With this setup type, the standard features, the Natural Remote Debugger and the XRef GUI Client are installed.

▶ Step 5: Select the Destination Folder

In this screen, you can select the destination folder where you want Natural to be installed.

The default path is C:\Program Files\Software AG\Natural.

You can change this path by clicking on the "Change" button.

Click "Next" to proceed.

▶ Step 6: Enter Remote Debugger Port Value

In this screen, you can enter a value for the Natural Remote Debugger communication port.

Values between 0 and 9999 are valid. The default value is 2500.

Click "Next" to proceed.

▶ **Step 7: Desktop Icons**

In this screen, you can specify if you want desktop icons to be displayed or not.

Select "yes" if you wish to display the desktop icons or "no" if not.

Click "Next" to proceed.

▶ **Step 8: Confirm the Installation**

In this screen, you can view a summary of which features will be installed.

Confirm the installation by clicking on the "Install" button. The files are then copied to your system.

You can also review your choices by clicking the "Back" button. Select "Cancel" to exit the wizard.

▶ **Step 9: End the Installation Process**

After the files are copied to your system, complete the installation process by clicking the "Finish" button in the last screen.

Natural 5.1.1 Development Client for Single Point of Development Setup has been installed successfully.

Custom Setup

With this setup type, you can customize which features or subfeatures you want to be installed. You will also be asked to confirm or change several values during the installation process.

▶ **Step 5: Select the Features to be Installed and the Destination Folder**

In this screen, you can select which features you want to be installed.

Features marked with an "X" icon  will not be installed.

Features with a hard drive icon  will be installed.

To install features marked with the "X" icon:

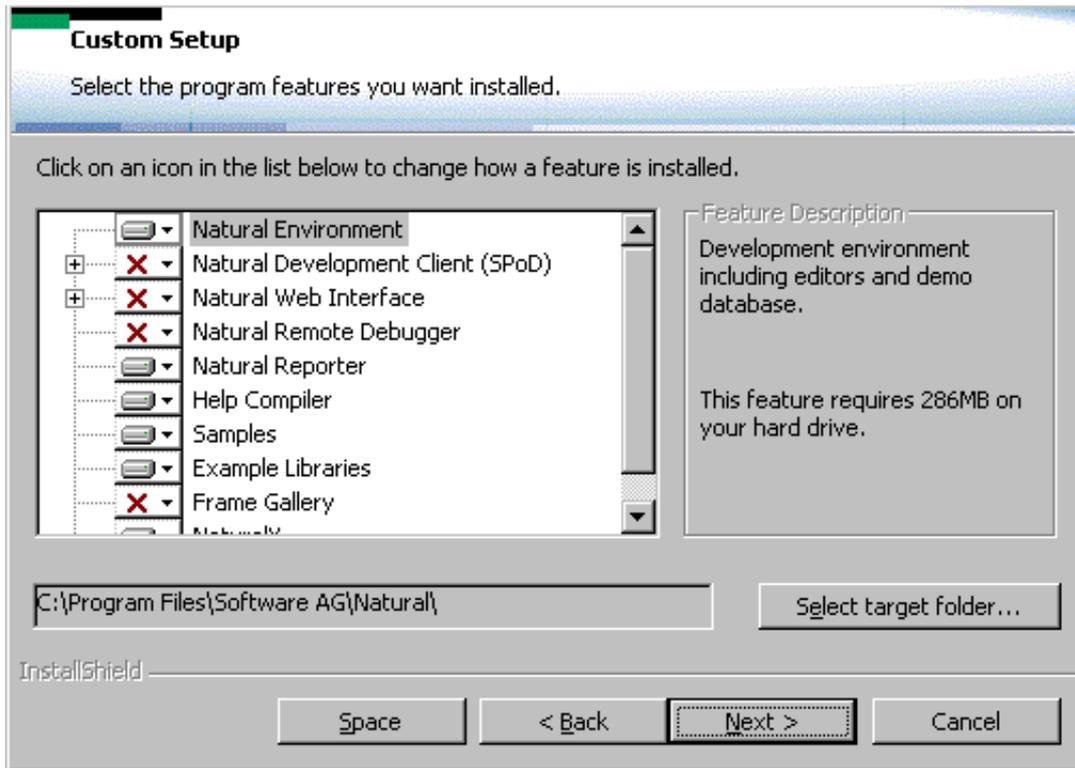
Click on the icon. A pulldown menu will appear.

Choose one of the options displayed in the menu to either:

- Install the feature on a local hard drive or
- Install the feature and all subfeatures on a local hard drive.

You can view a description of the selected feature on the right side of this screen which provides an overview of the features that will be installed.

For example, if you select "Natural Development Client (SPoD)" the description "Installs XRef GUI Client, Remote Debugger and 3270 Terminal Emulation" will be shown.

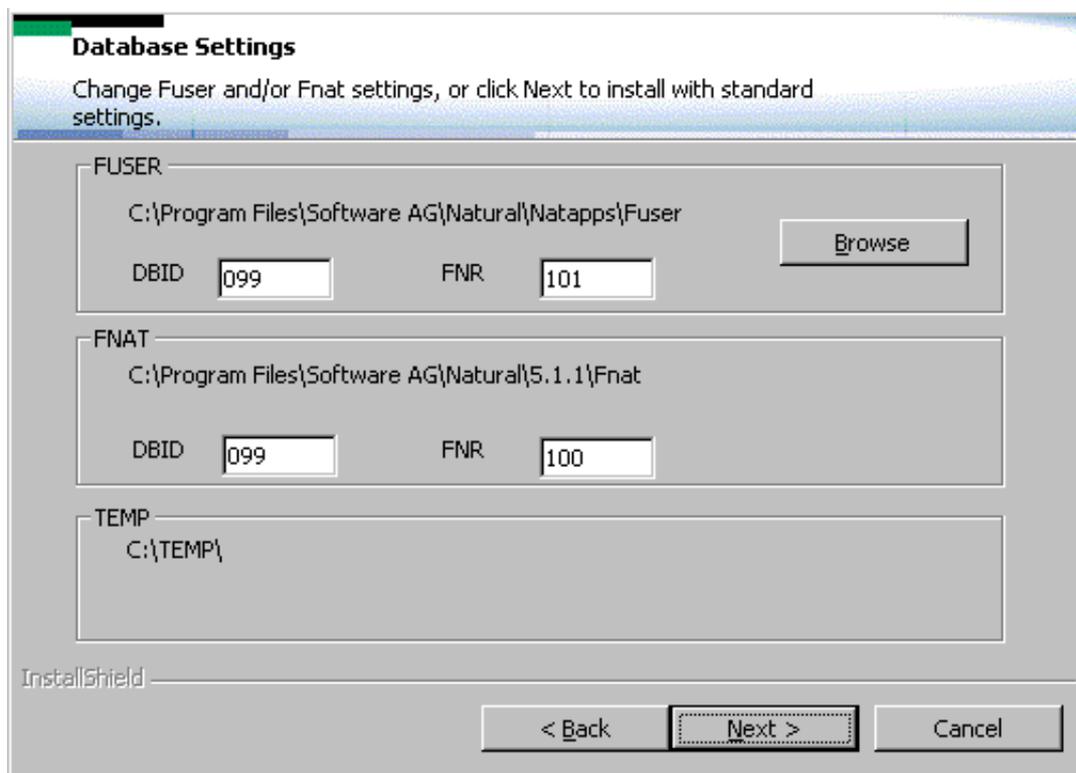


After you have chosen the desired features, select the target directory where Natural is to be installed.

Click "Next" to proceed.

▶ Step 6: Enter the Database Settings

In this screen, you can insert the DBID and FNR for FUSER and FNAT and select the path for the FUSER directory.



Click "Next" to proceed.

▶ **Step 7: Enter Remote Debugger Port Value - optional**

This screen only applies if you have chosen the "Natural Remote Debugger" or "Natural Development Client" feature.

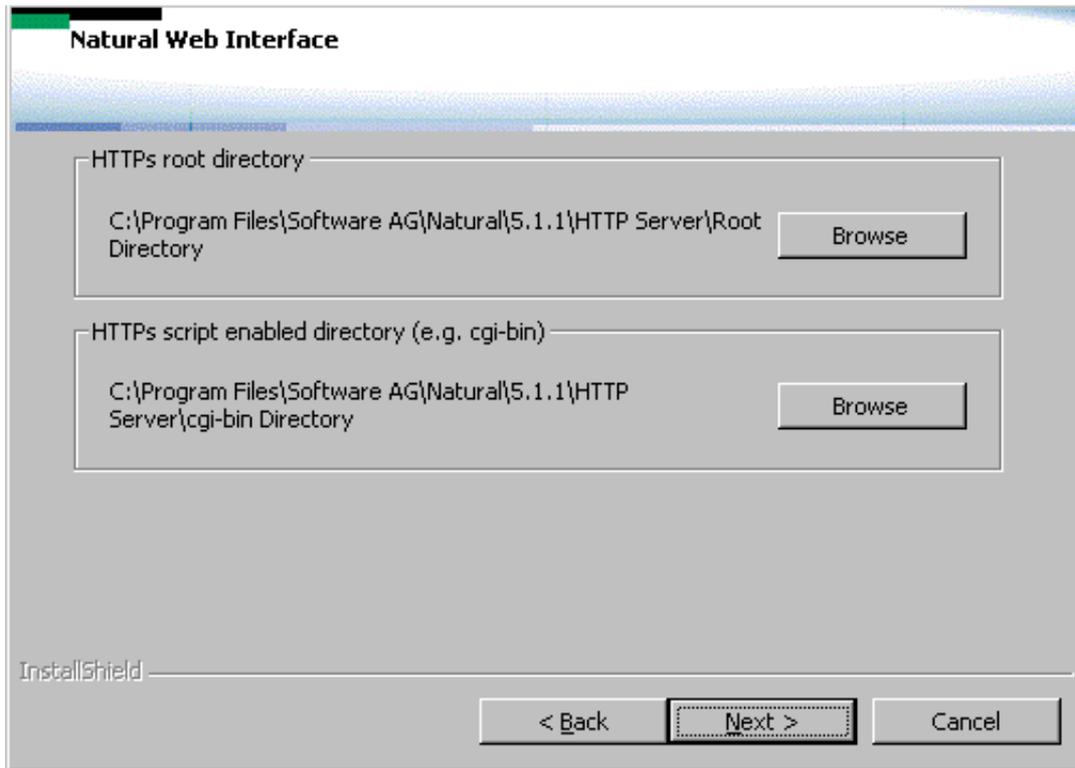
In this screen, you can enter a value for the Natural Remote Debugger communication port. Values between 0 and 9999 are valid. The default value is 2500.

Click "Next" to proceed.

▶ **Step 8: Enter Natural Web Interface Directories - optional**

This screen only applies if you have chosen the "Natural Web Interface" feature.

In this screen, you can verify the HTTP server root directory and the HTTP server script enabled directory for the Natural Web Interface. The paths shown in the screen below are the default paths. Click the "Browse" button to change the paths.

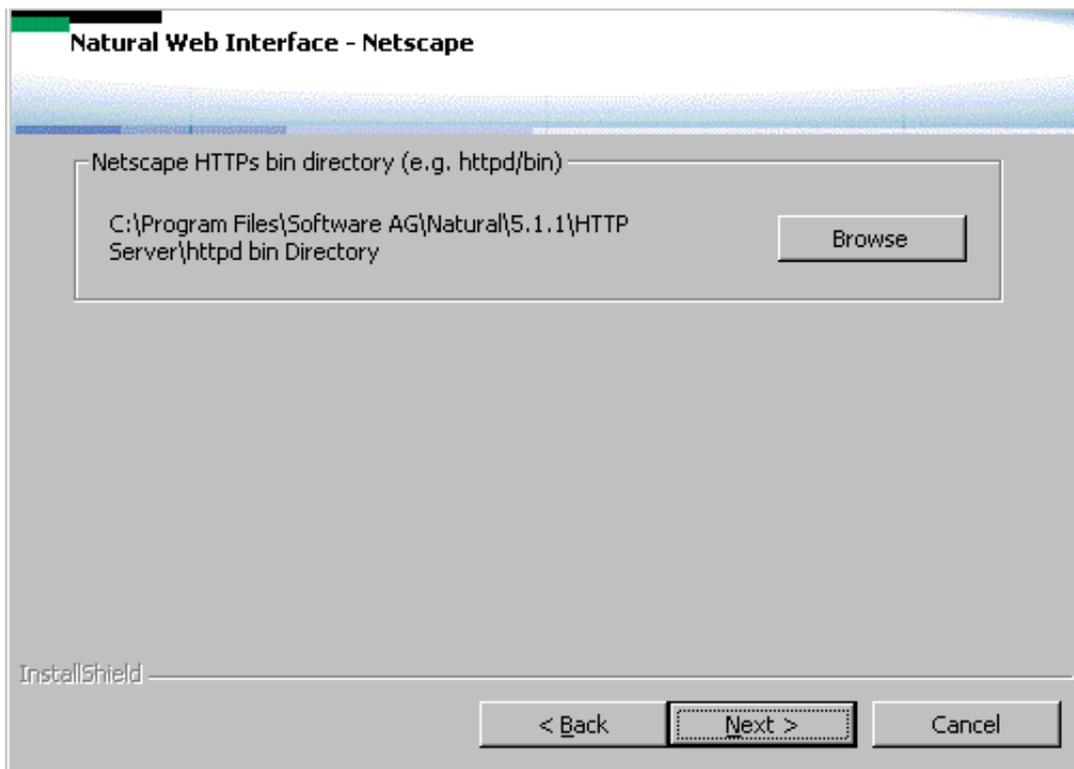


Click "Next" to proceed.

▶ **Step 9: Enter Natural Web Interface Netscape Directories - optional**

This screen only applies if you have chosen the "Natural Web Interface" feature.

In this screen, you can verify the Netscape HTTP server bin directory for the Natural Web Interface. The path shown in the screen below is the default path. Click the "Browse" button to change the path.



Click "Next" to proceed.

▶ **Step 10: Desktop Icons**

In this screen, you can specify if you want desktop icons to be displayed or not.

Select "yes" if you wish to display the desktop icons or "no" if not.

Click "Next" to proceed.

▶ **Step 11: Confirm the Installation**

In this screen, you can view a summary of which features will be installed.

Confirm the installation by clicking on the "Install" button. The files are then copied to your system.

You can also review your choices by clicking the "Back" button. Select "Cancel" to exit the wizard.

▶ **Step 12: End the Installation Process**

After the files are copied to your system, complete the installation process by clicking the "Finish" button in the last screen.

Natural 5.1.1 Custom Setup has been installed successfully.

Runtime Installation

Natural Runtime and Natural are two entirely separate environments with Version 5.1.1.

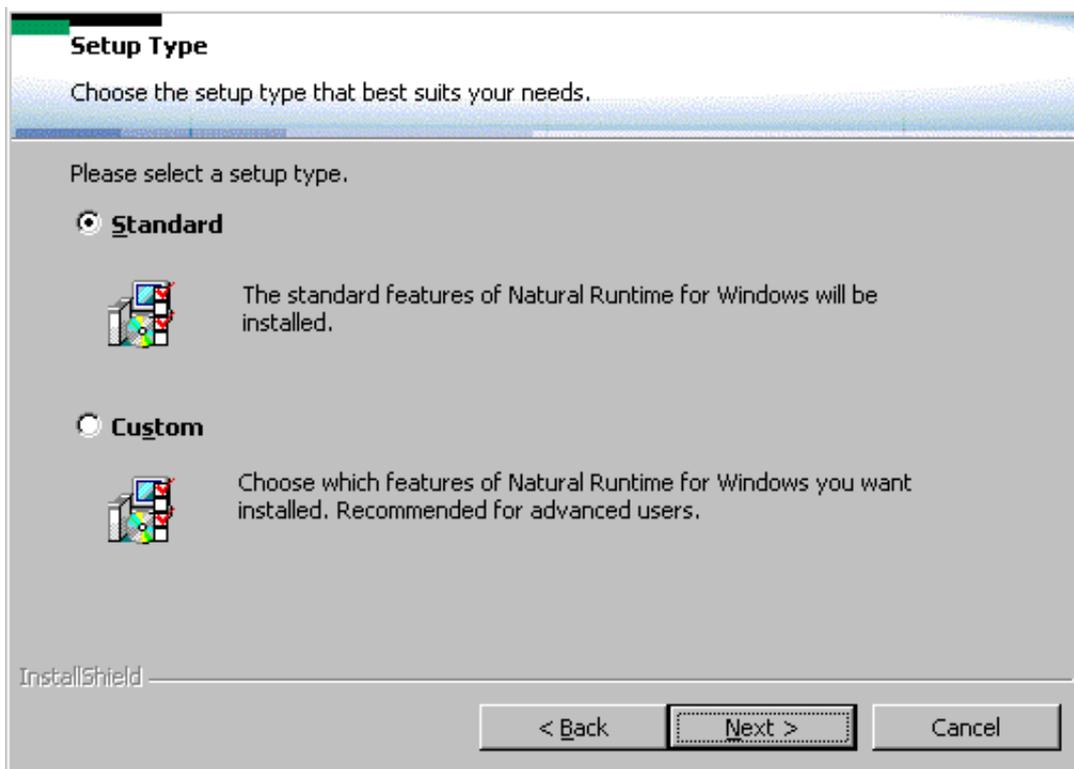
With Natural Runtime, only a subset of the Natural functions can be performed.

The installation procedures of the Natural Runtime 5.1.1 installation are almost identical with those of the Natural 5.1.1 installation. However there are some exceptions that are described in this section.

Installation Steps

The steps 1, 2 and 3 of the Natural installation also apply to the Natural Runtime installation. Step 4 in the Natural Runtime installation differs from the Natural installation, since the "Development Client for Single Point of Development (SPoD)" setup option is not available in the Natural Runtime installation.

You can only select "Standard" or "Custom" setup. See screenshot below.

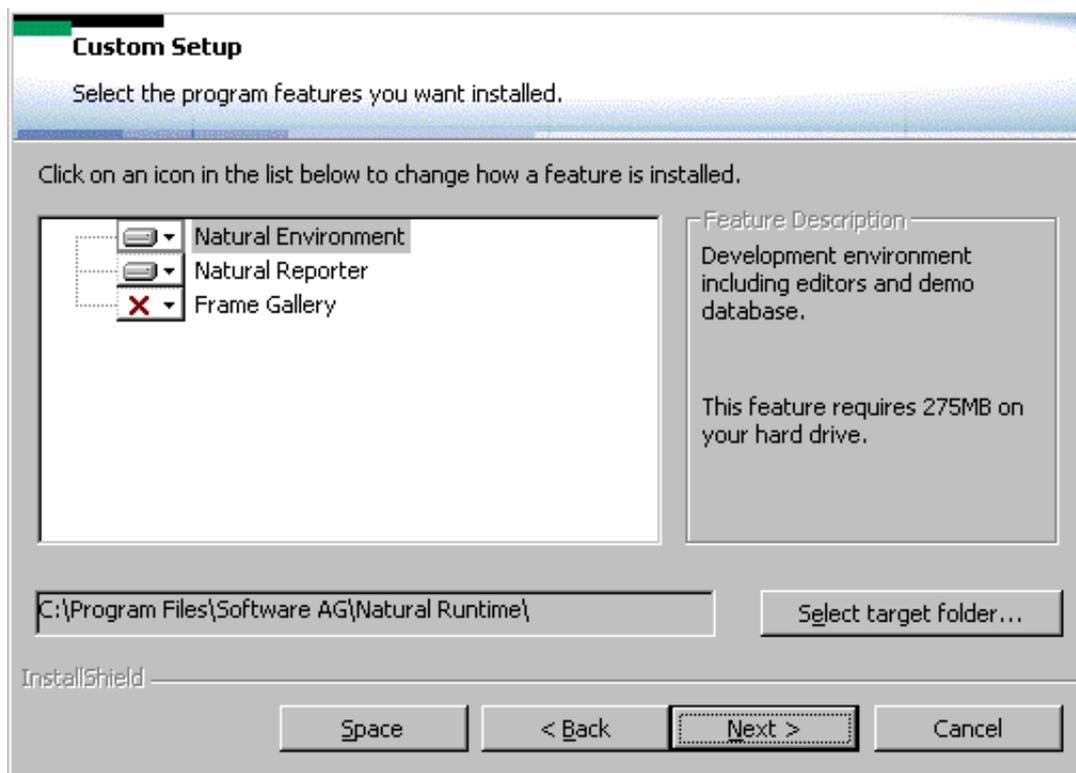


If you select "Standard", the following features will be installed:

- Natural Environment
- Natural Reporter

All further installation steps are identical to the Standard setup of the Natural installation. See Standard Setup for further information.

If you select "Custom", you can choose which features you want to be installed. The following screen is displayed:



The following installation steps are identical to the Custom setup of the Natural installation. The steps 7, 8 and 9 are omitted since the features connected to these steps are not available in the Natural Runtime installation. See Custom Setup for further information.

Starting Natural

Once the Natural installation process is completed, you can start a Natural session.

Before using Natural, however, you may need to set up parameters and individual settings depending on your environment. If you wish to do so, see Operations Environment and Profile Parameters. For information on transferring Natural objects from another platform (for example, UNIX), see Transferring Natural Objects.

Natural can be started from the desktop using desktop icons, with the Start button or from the Windows Explorer.

▶ To start Natural from the desktop

Double click the Natural icon.



▶ To start Natural from the Start menu

Click the Start button, then select "Programs", then the Program Folder you selected during installation, then "Natural 5.1.1".

▶ To start Natural from the Explorer

1. Open the directory, for example:
C:\Program Files\Software AG\Natural\5.1.1\bin
2. Then choose:
Natural

Note:

Dynamic parameters cannot be issued if Natural is started from the Explorer.

Installing the XRef GUI Client

The XRef GUI Client installation is part of the Natural for Windows installation. You can either install it with the Development Client for Single Point of Development Setup or with the Custom Setup.

If you choose "Development Client for Single Point of Development (SPoD)" in the Setup Type screen, the XRef GUI Client is installed automatically along with other features.

If you choose "Custom" in the Setup Type screen, the "Natural Server Development (SPoD)" feature or the "XRef GUI Client" subfeature have to be selected manually in the following screen. See Step 5 of the Custom Setup procedure for further details on how to select features.

Note:

You have to activate the XRef GUI Client plug-in using the Plug-In Manager before you can actually use it. See Invoking XRef GUI Client for further information.

Setting Up SYSPAUL Applications

This section describes the setup procedure which can be used to install SYSPAUL applications. The following topics are included:

- Starting the Setup Procedure
- Selecting the Required Natural Environment
- Installation Log

When you start the setup procedure, an initial welcome screen informs you of the name of the application to be installed, of the required Natural version, and whether the application requires additional databases.

Starting the Setup Procedure

To run the setup program

1. From the Start menu, choose Run.
2. In the command line, enter:
x:\disk1\Setup.exe
where "x" is the letter of the disk drive containing the CD-ROM or the first disk of the application.

Selecting the Required Natural Environment

After having displayed the initial welcome screen, the setup procedure lets you select the Natural environment in which your application is to run. The following options are provided in the sequence indicated:

1. Selection of an already installed Natural version.
2. Selection of an appropriate parameter file.
3. Assignment of Natural system files.
4. Preparation of Natural INPL.

Step 1: Natural Version Selection

After having scanned your hard disk for the installed Natural versions, the setup procedure displays a dialog box that lists in the Installed Versions list box all Natural versions found.

Select the version appropriate to the application to be installed and click the OK command button.

To exit the setup procedure, click the Cancel button; you will be asked for confirmation.

If there is no Natural version installed with which your application can be run, the setup procedure terminates.

▶ **Step 2: Parameter File Selection**

After you have selected the appropriate Natural version, the setup procedure displays the Select Parameter Module dialog box which lets you select one of the parameter files currently available in your environment.

The selected parameter file provides the default settings for the database identification (DBID) and file number (FNR) of the system files to be assigned in the following step.

Note:

The selected default settings for FNAT cannot be changed.

Select one of the listed parameter files and click the OK command button.

To exit the setup procedure, click the Cancel button; you will be asked for confirmation.

▶ **Step 3: System File Assignment**

After you have selected an appropriate parameter file, the setup procedure displays the System File Assignment dialog box, which lets you modify the values of your system files FUSER, FSEC and FDIC.

Note:

FSEC must be empty, if Natural Security is not to be installed.

Since the FNAT system file cannot be modified, you have to select another parameter file if you want to use a different FNAT file. For this purpose, click the Back button to return to the Select Parameter Module box.

For all other system files, you can modify the database identification (DBID) and file number (FNR), select a database type, and specify the appropriate path name for databases of type System File.

Note:

You must specify existing path names and you cannot change the path and type of existing DBIDs and FNRs.

Make the necessary modifications and click the OK command button. To exit the setup procedure, click the Cancel button; you will be asked for confirmation.

▶ **Step 4: Preparing for Natural INPL / LOAD**

After you have selected your Natural environment, the Natural files are copied to disk. A bar showing percentage completion appears while copying/decompressing files.

Once the files have been copied, Natural is started and an INPL/LOAD is performed.

Installation Log

If you should encounter any problem during the installation procedure, consult the log file INPLAPP.LOG, which is written to your Natural installation root directory.

Setting Up the Entire System Server Interface

The Entire System Server Interface (ESX) is required if the product Entire System Server (ESY) is to be used. The Entire System Server Interface is part of Natural Version 5.1.1 and no extra installation is needed.

Additionally, Natural Version 5.1.1 provides the libraries SYSNPE and SYSNPR.

SYSNPE is the Entire System Server online tutorial as startup help for Entire System Server users. For more information about Entire System Server, see Entire System Server Overview.

The library SYSNPR contains the utility CHANGEDB which is used to change the database ID of the Entire System Server DDMs.

This section covers the following topics:

- Prerequisites
- Activation

Prerequisites

The Entire System Server Interface provides access to Entire System Server on OS/390, VSE/ESA and BS2000/OSD via Entire Net-Work. For full support of the Entire System Server Interface, WCP 581 or above is required on the mainframe platforms.

Activation

The Entire System Server Interface is not active if you use the standard Natural configuration settings. The value of the Entire System Server Interface database (Natural profile parameter ESXDB) is set to 0 by default. To use the Entire System Server Interface you need to run the Natural Configuration Utility and must set the value of the parameter ESXDB to 148. The parameter can be found in the Natural Configuration Utility > Natural Parameter Files > Product Configuration > Entire System Server.

ESXDB specifies the database ID used for the DDMs of Entire System Server. This DBID does not specify the target DBID of Entire System Server requests but tells Natural which DBID is used for the catalogued Entire System Server DDMs. The effective Entire System Server target DBID will be specified with the NODE field which is part of all Entire System Server DDMs.

Please change the value of ESXDB to 148 to run Natural with Entire System Server Interface support. All Entire System Server DDMs are catalogued with DBID 148.

After starting Natural again, you may access Entire System Server nodes running on the mainframes via Entire Net-Work.

Currently, the customization of Entire System Server Interface supports the modification of the Entire System Server DDMs only.

How to use a different DBID for the Entire System Server DDMs:

Library SYSNPR contains the CHANGEDB program which is used to modify the database ID of all Entire System Server DDMs. You will find all Entire System Server DDMs in the library SYSNPE.

The database ID entered as a new DBID value in the CHANGEDB program must also be specified as the value of the Entire System Server Interface database parameter (ESXDB) in the Natural Configuration Utility.