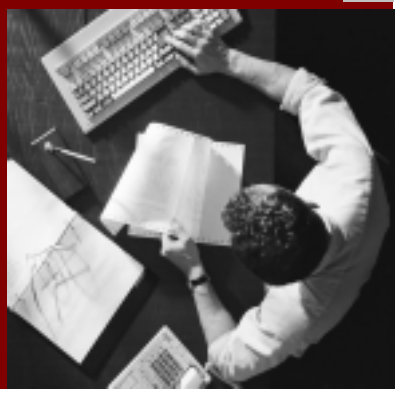


Installation Guide

SAP® Front End Installation Guide Release 6.20

V 2.03

SAP AG
Neurottstraße 16
69190 Walldorf
Germany
T +49/18 05/34 34 24
F +49/18 05/34 34 20
www.sap.com

Documentation in the SAP Service Marketplace
You can find this documentation at the following address:
http://service.sap.com/instguides

Typographic Conventions

Type Style	Represents
Example Text	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options.
	Cross-references to other documentation
Example text	Emphasized words or phrases in body text, titles of graphics and tables
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, names of variables and parameters, source code as well as names of installation, upgrade and database tools.
`Example text`	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
`<Example text>`	Variable user entry. Pointed brackets indicate that you replace these words and characters with appropriate entries.
`EXAMPLE TEXT`	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key

Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Contents

SAP Front End Installation Guide

Purpose

This documentation describes how to install and distribute the SAP front-end software on Windows platforms.

Part I Introduction

Documentation in the SAP Service Marketplace

You can find this documentation at the following address:

`http://service.sap.com/instguides`

Preparatory Reading

You can find the *Network Integration Guides* at the following address:

`http://service.sap.com/network`

SAP Notes

For the latest information on:

- Hardware requirements, see *SAP Note 26417*
- Supported front-end platforms, see *SAP Note 66971*
- Delivery, see *SAP Note 166130*

SAP GUIs

The SAP GUI Family consists of:

- SAP GUI for HTML
- SAP GUI for the Java environment (SAP GUI for Java)
- SAP GUI for the Windows environment (SAP GUI for Windows)

SAP GUI for HTML is based on the Internet Transaction Server (ITS). The Internet Transaction Server needs to be installed on the server side. On the desktop, a suitable browser (for example, Internet Explorer 4.01 or higher) is sufficient. Since the SAP GUI for HTML does not need SAP software to be deployed on the client, this GUI is not covered here.

SAP GUI for Java is a generic SAP GUI that covers a variety of platforms. It has the same look and feel as the windows version with the exception of the platform-specific window decoration. The SAP GUI for Java was designed for use with the Workplace, but it can also be used without the Workplace.

Installation of SAP GUI for Java is described in the documentation that can be found in the folder `GUI/DOC` on *Presentation CD2*. The documentation can also be found at `ftp://ftp.sap.com/pub/sapgui/java/`

SAP GUI for HTML and SAP GUI for Java do not have all the capabilities of SAP GUI for Windows. For example, new dimension applications require the SAP GUI for Windows.

For more information about the SAP GUI Family, see http://service.sap.com/sapgui

Platforms

As of Release 4.x, controls are used in the SAP front end. Microsoft ActiveX controls are used in the *SAP GUI for the Windows environment* which is used only by Windows 98, Windows NT 4.0, Windows 2000, and Windows XP. The *SAP GUI for the JAVA environment* is also available for these Windows platforms.

All other platforms use the *SAP GUI for the JAVA environment* where controls are implemented by means of *JAVABeans*.

Upgrading and Patching

The term “upgrade” is used to refer to the transition from one Release to another, for example from 4.6C to 4.6D. The term “patch” refers to changes within a release to remove errors. In an upgrade you should proceed exactly as for a new installation (upgrading SAP GUI for Windows is an exception).

Installation of the SAP Online Documentation

You require access to the SAP online documentation from the front end. If you use SAP Systems with Release 4.0x and older in your system environment, you must set up access for the required type of online documentation. You can access both types of online documentation at one front end.

Online Documentation from Release 4.0A

SAP delivers an HTML-based solution for online documentation. The installation of this online documentation is described in the guide *Installing the SAP Library*. Use this guide when planning a new installation or an SAP upgrade. It deals with all aspects you should take into account when installing the online documentation on all R/3 platforms and all front-end platforms.

Online Documentation before Release 4.0A

For information, see the platform specific chapters of this guide.

Part II SAP GUI for the Windows Environment

Platforms

The SAP GUI for Windows can be installed on:

- Windows 98
- Windows NT 4.0
- Windows 2000
- Windows XP

SAP Notes

SAP Note 456905 lists SAP Notes relevant to SAP GUI for Windows.

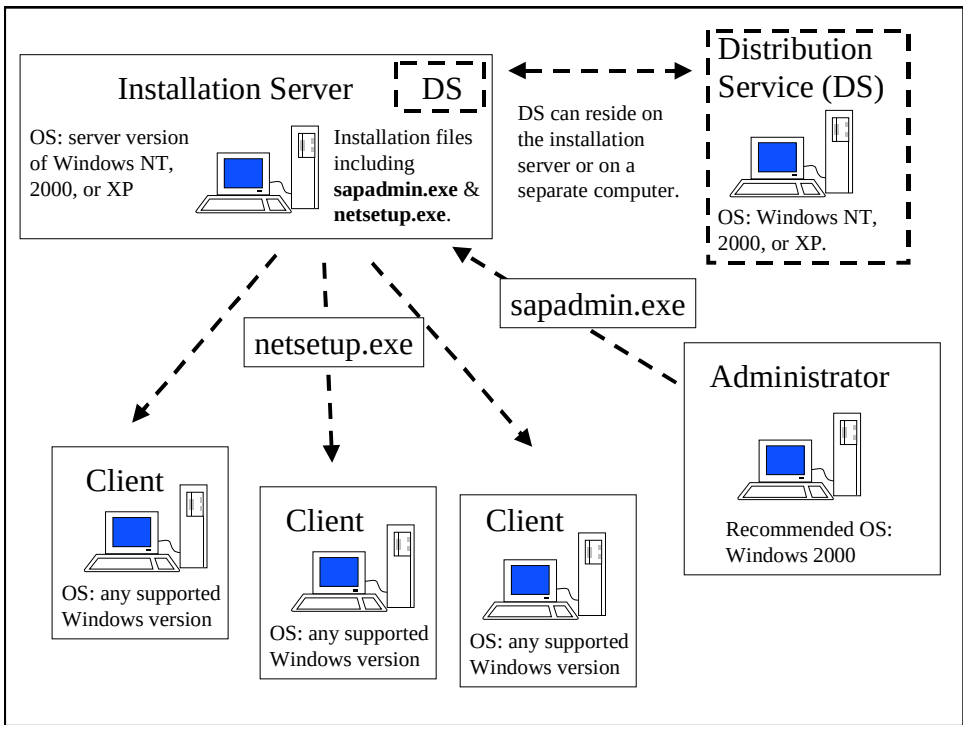
Benefits as of 6.20

The installation process has the following new features:

- The new installation software has a new user interface with wizards to make the installation process easier.
- Services for local security handling are easy to configure.
- Configuration of the installation can be started from the Windows Control Panel.
- Updating the installation is easier. Installed components are updated without needing to be selected.
- The installation is faster and more stable. One reason for this is offline registration of controls.
- Components can be added or removed after the installation has been completed.
- There is no need to reboot for Windows 2000 and XP. For Windows 98 and NT 4.0, a reboot is only required if Microsoft files need to be updated. This would only occur at the start of the installation process.

Deployment Scenarios for SAP GUI for Windows

SAP GUI for Windows should, in most cases, be installed from an installation server. This is called server-based installation. In this method, the administrator sets up an installation server from which the installation of the SAP front-end software on many different clients can be achieved efficiently. The figure below shows a typical configuration and summarizes the operating system requirements.



Server-based installation is very flexible, and offers the following options for installing SAP GUI for Windows:

- without user interaction (unattended)
- with user interaction (attended)
- automatically when a user in the Workplace chooses an appropriate entry in the Launchpad

The SAP GUI for Windows deployment scenarios are :

- Server-based local installation. All the installation files are copied from the server to the client during installation.
- Server-based server-dependent installation. Most binary files reside on the server.
- Installation in mySAP Workplace. This is like the server-based server-dependent installation. The GUI is installed when required from within the Workplace.
- CD-based local installation. This is mainly for testing purposes or for stand-alone computers. The administrator takes the installation CD from PC to PC.

Server-Based Installation

We recommend using server-based installation when several workstations or more are involved. The installation process is easy to do. Server-based installation is flexible and makes maintenance easier, for example when patches are to be applied.

Which components to be installed, on which workstations, depends on the types of user. Different types of user have different requirements. For example, an employee in the HR department would require different components from a software developer.

The administrator groups various components together as packages relevant for certain types of employee. The administrator can specify which package particular users receive or else offer a variety of packages and allow the user to choose the most appropriate one.

The hard disk requirement on the installation server is approximately 380 MB.

The three different types of server-based installation (local, server dependent, and server dependent via mySAP Workplace) have different advantages and are described below in more detail.

Server-Based Local Installation

With server-based local installation, the installation files are copied to the client. This has several advantages:

- Provides best performance and reliability (after installation, no fileserver has to be up).
- Makes the client independent of the installation server.
- Runs faster because files are not loaded from the network.

As administrator, you can configure your own installation packages with SAPAdmin on the installation server or use the pre-configured packages provided by SAP.

You apply patches on the installation server and call SAPSetup on your client again to apply the patch on the client. Installation may be via the command line. You can carry out unattended installations and automatic patch deployment on the client. To do this you place the appropriate command line in the logon script of the client. The logon script is a program that is executed when you log on.

Server-Based Server-Dependent Installation

With server-based server-dependent installation, all the installation files, except System DLLs, remain on the server. Therefore the footprint on a client is minimal. The installation is also much faster.

Server-dependent installation dramatically reduces maintenance: if the logon script contains the appropriate commands, patches need only be applied on the server for the clients to benefit from them automatically.

A high performance LAN is desirable, as is load balancing and high availability of the fileservers.

A disadvantage of this installation method is that greater network bandwidth is required because everything has to be passed via the network.

You can use one of SAP's pre-configured server-dependent installation packages or create your own using SAPAdmin.

Server-Based Server-Dependent Installation via mySAP Workplace

This is like server-based server-dependent installation but there are no prerequisites for the client except for Internet Explorer 4.01 or higher. In the Workplace, the Windows GUI can be installed on demand. This means that when a transaction is selected that requires a Windows GUI, one is automatically installed (if it has not already been installed). The administrator needs to configure this function in the WnGUI service file on the ITS server.

Local Installation from CD

Local installation from CD is useful for installing the SAP GUI on single machines (for example, laptops) that are not connected to a Local Area Network (LAN). It can also be useful for test purposes.

Local installation from CD has disadvantages. No deployment scenarios are available. When patches need to be applied, each workstation gets patched separately.

1 Installing the Front-End Components

Prerequisites

You have used *Note 26417* to check that all hardware and software requirements for the front-end workstations have been met. If you do not have access to SAPNet, use the fax request form included in the software package.

Remarks on Installation

The SAP GUI is downwards compatible. You can always use a later SAP GUI version with an earlier or identical R/3 Release.

From Release 4.x, the SAP front end for 32-bit Windows platforms uses Microsoft controls technology. All controls must be registered locally. As a result, the system database contains an entry indicating where each control can be found. Since the system always registers the latest controls, only the most recently installed version of a control is available at any time.

This means that a computer can contain only one version of the 4.x 32 bit GUI. During installation, any GUI of 4.5A or later is automatically uninstalled. You can have a 3.x (16 or 32 bit) GUI on the same machine as a 4.x 32 bit GUI.

Installation

Server-Based Installation

The following describes a typical flow for server-based installation and maintenance.

1. Set up an installation server and, if necessary, the local security handling. See Setting Up an Installation Server. [Page 14]
2. Define installation packages for different user groups. See Maintaining Installation Packages [Page 16].
3. If the local security handling has been set up, test it. You can do this by logging on to a user PC with a user account without local administrator rights and running netsetup.exe.
4. Distribute the packages using the logon scripts of the user PCs. See Installing Packages Using the Logon Script. [Page 21]
5. Maintain the installation by applying patches. See Patch Deployment. [Page 23]
6. Upgrade when a new front-end release becomes available. See Upgrading the Front End [Page 22].

Local Installation from CD

See Local Installation from CD [Page 32].

Help and Reporting Problems

During the installation procedure, you can always use the online help. If you experience problems, you should check the installation [Page 29] and consult the log files [Page 30] before contacting support. When reporting problems, always send the log files as well.

2 Distributing the Front-End Components

The Installation Server

Before you can distribute the front-end components, you must set up an *installation server*. After installation, this server contains:

- Installation programs
- Configuration information (for example, for packages)
- Service files (for example, for local security handling)
- The front-end components to be installed

For a detailed description on how to proceed, see *Setting Up an Installation Server*.

Installation Packages

After the installation server is set up, you can create installation packages that users can run from the server. Users can install several packages, even if the packages share common components.

Each installation package defines the components to be installed. Administrators may define whether package installations are server-based or local. For a detailed description on how to proceed, see *Maintaining Installation Packages*.

Server-based Packages

If there is a fast connection to the installation server that is not susceptible to downtime, we recommend server-based installations. This way, as many files as possible are stored on the server and executed from there. As a result, you save disk space and keep installation time to a minimum.

Local Packages

If your network connection is slow, we do not recommend server-based packages, since the number of accesses made to the server have a negative effect on performance. In this case, you should install locally.

As a rule, we advise you to install locally whenever you are using many other front-end components, like R/3 add-ons, besides the SAP GUI.

The Distribution Service and the Installation Service

Windows NT, Windows 2000, and Windows XP, have local security mechanisms. In these systems, only users with local administrator rights have write access to parts of the system database and the file system.

SAPSetup provides a convenient solution to this problem through the Distribution Service (DS), which resides on the server, and the Installation Service (IS), which the DS installs on the client. The IS starts a new instance of sapsetup.exe that runs with sufficient privileges.

3 Planning Installation from Installation Server

Before installing, you should consider the following points:

- Which computer do you want to set up as an installation server?

  The computer you select for this purpose should be accessible for all users at any time, even after the installation is complete. This is required for maintenance purposes such as the distribution of patches. The network connection should allow high throughput. You need 300-400 MB of free disk space. The installation server should have a server version of Windows NT, Windows 2000, or Windows XP.

- Which components are to be used by which user groups?

  You can create special installation packages for different user groups, who can then install only the components they actually need. Try to determine in advance which components are needed and which packages you need to create. You can predefine the destination folder for a package.

Hard Disk Clones

If the Windows NT, Windows 2000, or Windows XP operating systems were generated through hard disk clones on the user PCs, make sure that the domain is correct. To do this, take the computers out of the domain and then put them back in.

4 Setting Up an Installation Server

Use

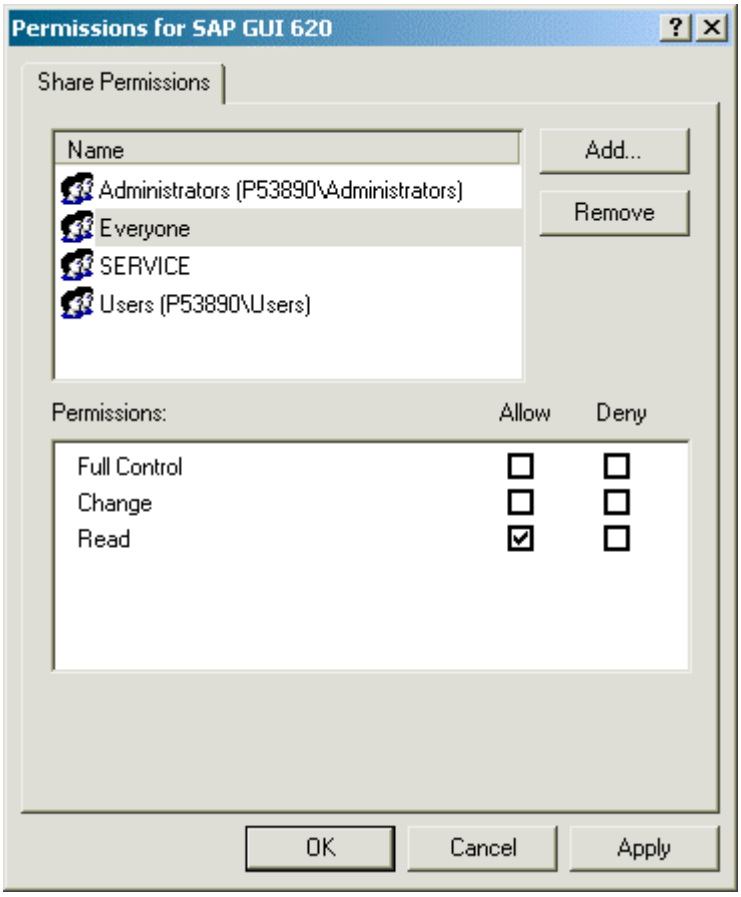
If the front-end software is to be installed on a large number of computers in a network, you must set up an installation server first. When you do this, all files needed for installations from this server are copied into a shared directory on one computer.

Prerequisites

You need local administrator rights under Windows NT, Windows 2000, or Windows XP.

Procedure

1. Create a folder for the installation and share it. You need to grant read-permission for the clients that will be using this installation server, and local administrator authorizations for the account that will be used by the Distribution Service. For example, under Windows 2000:
   a. Right-click the folder.
   b. Choose *Sharing*...
   c. Select *Shared this folder*
   d. Choose *Permissions*
   e. For the clients (Everyone), select *Allow* for *Read*, and deselect *Allow* for *Change* and *Full Control*.



f. Choose *ADD*, and add the name of the account to be used by the Distribution Service.

g. For *Full Control*, *Change*, and *Read*, select *Allow*.

h. Choose *OK*.

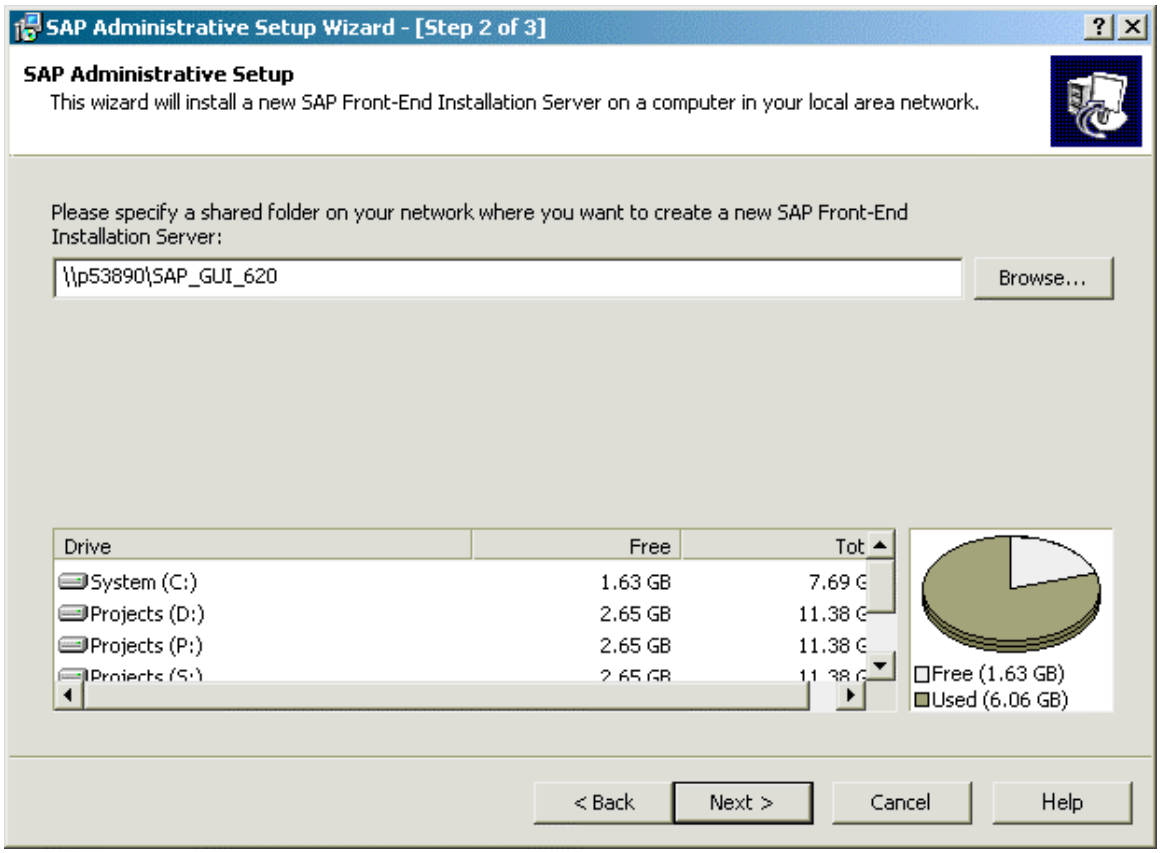
2. In folder `Gui\Windows\Win32\SETUP` on the *Presentation CD1,* start `admsetup.exe`.

   The wizard appears.

3. Choose *Next.*

   A dialog box appears.

4. Enter the target folder to which the setup files are to be copied. This is the shared folder that you specified in step 1.



5. Choose *Install* to start the installation process.

   The installation process starts. All required files are copied to the installation server folder. Due to the volume of data involved, this process takes some time. When the installation process is finished, another wizard appears asking for two user accounts. This configures the Distribution Service.

6. Enter the name and password of an administrator account that has local administrator authorizations on all the clients to which the front-end software will be distributed. For example, a domain administrator would satisfy these requirements.

7. Choose *Next*.

8. Enter the name and password of a domain user account and choose *Finish*.

   This account only requires read access to the installation server. It becomes a member of the local administrator group.

5 Maintaining Installation Packages

After setting up an installation server, administrators can create installation packages for installation by users. The administrator uses SAPAdmin for this purpose. SAPAdmin can be found in the \SETUP folder on the installation server.

Permissions

If you do not want users to be able to install components (instead of predefined packages) from the installation server, the administrator must set up the permissions. The administrator needs to do this from a computer that has Windows 2000. The installation server must be running Windows NT/2000 or later. Server access authorization is not available on Windows 9x/Me clients.

Procedure

1. On the installation server, start SAPAdmin.
2. Choose Server → *Permissions...*
3. Deselect *Install Components from Server*.
4. Choose *OK.*

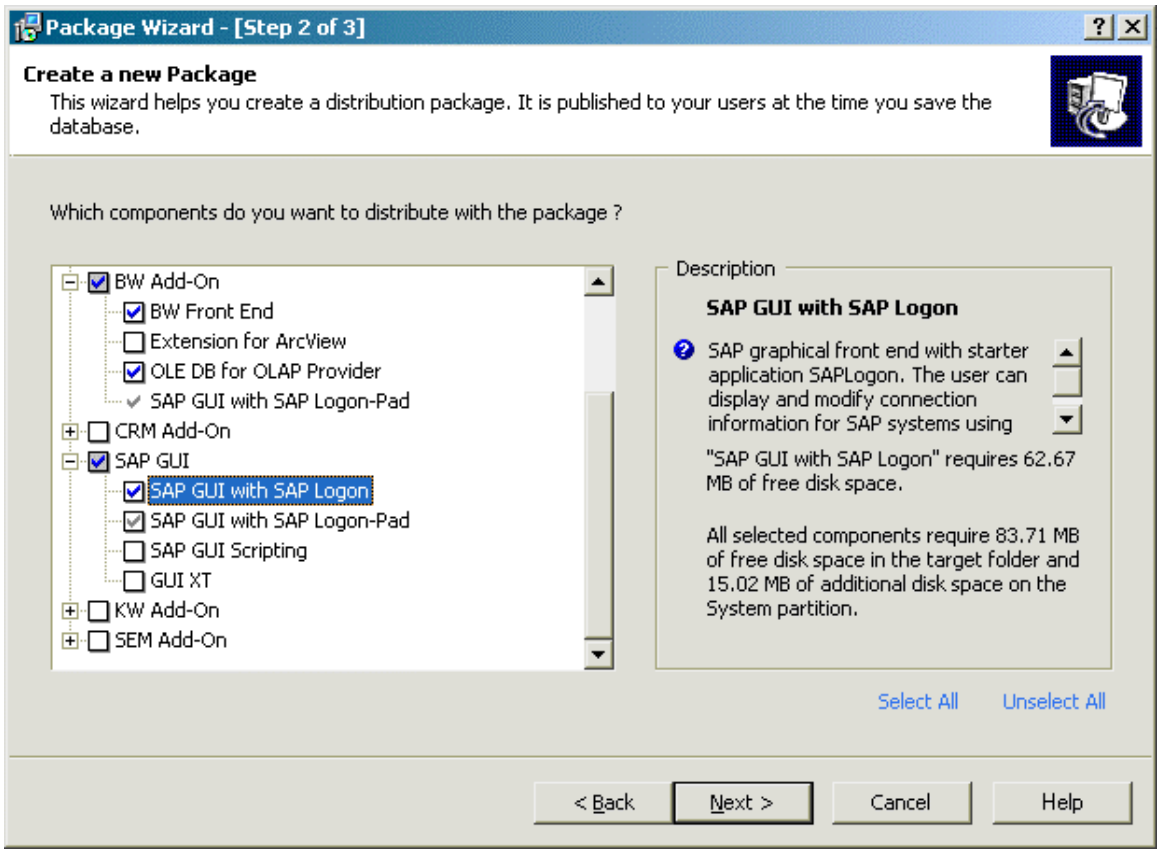
5.1 Creating a New Installation Package

Procedure

1. On the installation server, start SAPAdmin.
2. Choose *File* → *New Package*.

   The Package Wizard starts.
3. Enter a name for the package, then choose *Next*.
4. Select the components to be included in the package, then choose *Next*.

   When you select a group or component, a short description with the disk space required is displayed on the right. A checked box is white if all the components underneath have been selected, but is gray if only some have been selected. If you select a component that requires other components, these are automatically selected as well.



5. Select the type of installation for the package, then choose *Finish*.

   You can choose between local installation and server-dependent installation. For more information, see *Server-Based Installation*.

5.2 Modifying Installation Packages

Procedure

1. On the installation server, start SAPAdmin.
2. Select a package, and choose *Edit* → *Package Content*.

   The Package Wizard starts.
3. Select or deselect components.

   When you select a group or component, a short description with the disk space required is displayed on the right. A checked box is white if all the components underneath have been selected, but is gray if only some have been selected. If you select a component that requires other components, these are automatically selected as well.
4. Choose *Finish*.
5. Choose *File* → *Save*.

5.3 Creating Files for use with SMS, Tivoli, and Others

Use

SAPSetup can be integrated with the Microsoft Systems Management Server (SMS), Tiviloi, and others, which means that you can start installation packages as SMS jobs. For this purpose, you can use SAPAdmin to generate a .PDF and an .SMS files for each installation package.

Procedure

1. Select a package, and choose *File* → *Export* → *Package Definition File...*
2. Enter a folder and name for the files, then choose Finish.

6 Installing from a Server

Prerequisites

An installation server has been set up.

Either the appropriate authorizations are available or the Distribution Service has been configured.

Procedure

1. Map the shared directory, containing the installation files on the installation server, to a local drive.
2. Start `netsetup.exe` from the root folder of the mapped drive.

   If a user is authorized to install several packages, a list of these packages is displayed.
3. Select the components or packages to be installed, and choose *Install.*

6.1 Installing Packages Using the Logon Script

Use

Since the front-end software is normally installed on a large number of computers, SAPSetup allows you to automate this task as well as take advantage of SMS integration.

By inserting a command line into the logon scripts of the computers on which the front-end software is to be installed, you can start a package installation each time the user logs on.

Procedure

Insert the following command line (both the path and either the package name or unique package identifier must be used):

```
\\<server>\<shared folder>\setup\sapsetup.exe /p:“<package name>“
```

or

```
\\<server>\<shared folder>\setup\sapsetup.exe /p:“<unique package identifier>“
```

The unique package identifier is automatically generated when you create a package. It cannot be altered. Run SAPAdmin and select the package to see its unique package identifier. It is better to use the unique package identifier rather than the name, because the name need not be unique and can be changed.

7 Upgrading the Front End

Use

Upgrading is the same as doing a new installation.

The installation software automatically uninstalls a preexisting GUI of release 4.5A or later. GUIs of earlier releases are unaffected.

You should run `sapsweep.exe` to remove older 4.X GUIs.

8 Patch Deployment

Server-Based Patch Deployment

Procedure

1. Download the patch by FTP from SapServ, or from the SAP Service Marketplace at http:service.sap.com/ocs-download
2. Apply the patch to the installation server. See *Applying Patches to Installation Servers*.
3. Distribute the patch to the clients. See *Distributing Patches to Clients*.

Patch Application on Standalone Computers

In this case, patches are applied to a PC or notebook without an installation server. The GUI must have been installed using a CD. See *Applying Patches to Standalone Clients.*

8.1 Applying Patches to Installation Servers

Use

Apply the patches to the server and, if used, update the Distribution Service. The patch level of the server can be displayed in SAPAdmin by choosing *View* → *Server Monitor.*

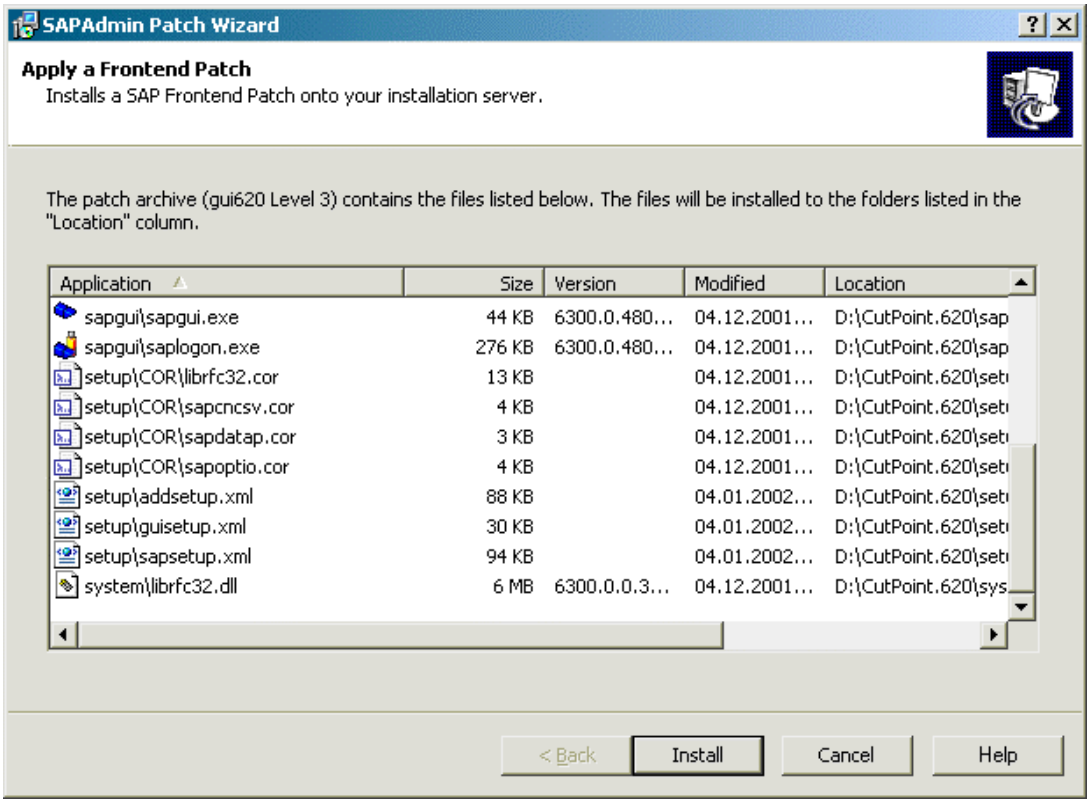
Prerequisites

You have downloaded the latest patch files from your regional SapServ FTP server.

Procedure

1. Start `sapadmin.exe`.
2. Choose *Tools* → *Apply Patch...*
3. Choose *Browse* to select the patch, then confirm your selection with *Open*.

   A list of files appears.



4. Choose *Install*.

5. If the Distribution Service (DS) is used, update it. Either start `SAPAdmin` and configure the DS (choose *Server* → *Configure Services...),* or
   a. Stop the service. You can use *Services* in the Windows Control Panel to do this.
   b. Replace all **.exe** and **.dll** files of the DS, in folder the `%windir%\SAPWksta` (usually `c:\winnt\sapwksta`) of the DS server, with the newer files from the `Setup` folder of the installation server.
   c. Restart the service. You can use *Services* in the Windows Control Panel to do this.

8.2 Distributing Patches to Clients

Prerequisites

The installation server has had the latest patch applied.

Procedure

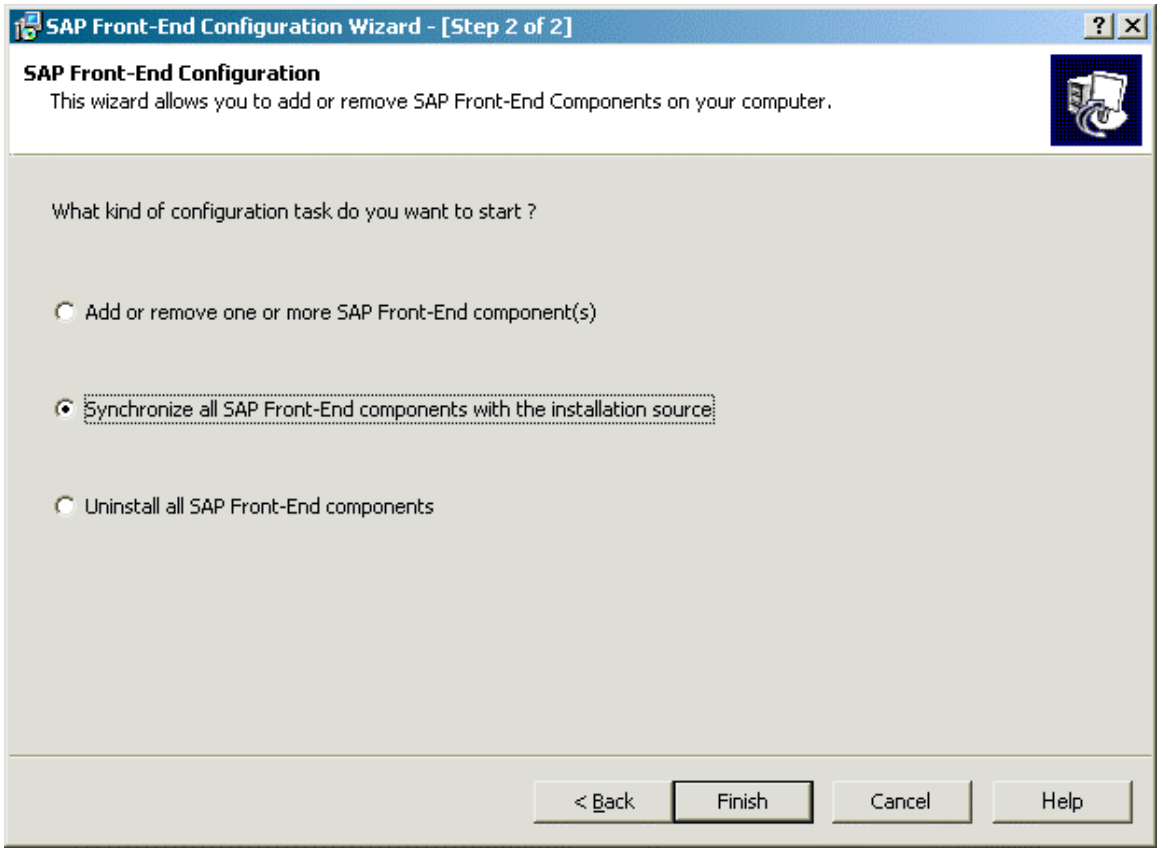
Manual Application of Patches

Alternative 1.

1. In the Windows Control Panel on the client, *Choose Add/Remove Programs*.

   A list of installed applications appears.

2. Choose *SAP Front End* from the list, and choose *Change* (on Windows 98 choose *Add/Remove*).
3. Choose Change.
4. Select *Synchronize all SAP Front-End components with the installation source*.



5. Choose *Finish*.

   This updates everything that is installed.

Alternative 2.

1. In the Windows Control Panel on the client, *Choose Add/Remove Programs*.

   A list of installed applications appears.

2. Choose *SAP Front End* from the list, and choose *Change* (on Windows 98 choose *Add/Remove*).
3. Select *Add or remove one or more SAP Front-End components*, then choose *Finish*
4. The configuration wizard appears.

   The Configuration Wizard starts. Components that are obsolete are grayed out.
5. Select the grayed-out components.
6. Choose *Next*.
7. Choose *Finish*.

Automatic Application of Patches

1. Add the following command line to the logon script of the client:

   ```
   sapsetup /update
   ```

8.3 Applying Patches to Standalone Clients

Prerequisites

You have local administrator rights under Windows NT, Windows 2000, or Windows XP.

Procedure

Using the Control Panel

1. Select *ADD/Remove Programs* from the Windows *Control Panel*.

   A list of installed applications appears.

2. Choose *SAP Front End* from the list, and choose *Change* (on Windows 98 choose Add/Remove).

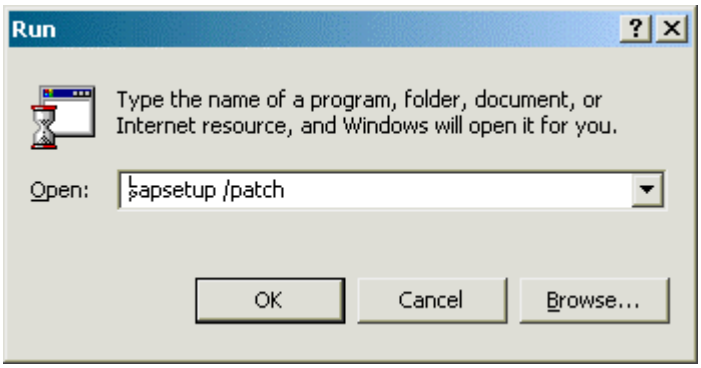
   The configuration wizard appears.

3. Select *Apply a SAP Front-End patch (for stand-alone computers, e.g. laptops)*, then choose Finish.
4. Select the patch that you want to apply.
5. Choose *Finish*.

Using the Command Line

With user interaction

1. From the command line, run **`sapsetup /patch`**



2. Choose the patch and then choose *Open*.
3. Choose *Finish.*

Without user interaction

From the command line, run **`sapsetup /patch:"<path>\<patch>.exe"`**

9 Checking the Installation

Use

This can be used for server-based installations or for standalone installations. You can save the results of the check in a file which can be used by SAP support.

Procedure

Call **`sapsetup.exe /check`**

9.1 Viewing the Log

Use

You can check the installation by viewing the log file `sapsetup.log`. The log file can be found in:

- `C:\WINDOWS\` under Windows 98 or Windows XP
- `C:\WINNT\` under Windows NT 4.0 or Windows 2000

The most recent log has no number. The older logs are numbered. The higher the number, the older the log. Each time new log is generated, each of the log numbers is incremented by 1.

Procedure

Run `saplogvw.exe` from the server, to start the SAPSetup Log Viewer.

Enter the path and filename of the log file.

Choose *Finish*.

The log file is displayed. Errors are colored red. Warnings are colored blue.

10 Uninstalling the SAP Front End

Procedure

1. In the Windows Control Panel, choose *Add/Remove Programs*
2. Select *SAP Front End*.
3. Choose *Remove* (Under Windows 9.X choose *Add/Remove*).
4. Select *Uninstall all SAP Front-End Components*.
5. Choose *Finish*.

   If something is running that needs to be shut down, a dialog box appears.

Result

The SAP Front End is uninstalled and a log file generated.

11 Local Installation from CD

Use

To install front-end software components on a single computer. You can install directly from CD without setting up a front-end server.

Prerequisites

You need local administrator rights under Windows NT, Windows 2000, or Windows XP.

Procedure

Installing the SAP Front End

1. In folder `Gui\Windows\Win32\SETUP` on the *Presentation CD1,* start `setup.exe`.

   The setup wizard appears.

2. Choose *Next*.
3. Specify the target folder for the program files. The default is `C:\Program Files\SAP\FrontEnd`
4. Choose *Next*.

   The setup wizard displays a hierarchical tree containing the components, and groups of components, you can select.

5. Select the components you want to install. When you select a group or component, a short description with the disk space required is displayed on the right. A checked box is white if all the components underneath have been selected, but is gray if only some have been selected.
6. Choose *Next*.
7. Choose *Install*.

   The installation starts. If a restart is required, a dialog will appear. In this case choose *OK*. The reboot would only occur at the start of the installation process.

Changing the Configuration

1. Select *ADD/Remove Programs* from the Windows *Control Panel*.

   A list of installed applications appears.

2. Choose *SAP Front End* from the list, and choose *Change* (on Windows 98 choose Add/Remove).

   The configuration wizard appears.

3. Select *Add or remove one or more SAP Front-End components*, then choose *Finish*.
4. Select or deselect the components that you want to add or remove respectively.
5. Choose *Install*.

Uninstalling the SAP Front End

1. Select *ADD/Remove Programs* from the Windows *Control Panel*.

   A list of installed applications appears.

2. Choose *SAP Front End* from the list, and choose *Change* (on Windows 98 choose *Add/Remove*).

3. Select *Uninstall* and *Finish*.
4. Confirm your decision in the dialog box that appears.

12 Command Line Parameters

You can call `SAPsetup.exe` with the parameters listed in the table below.

SAPSetup Parameter	Description
/check[:"<file name>"] [/silent]	Checks all the installed components.
/config	Starts the configuration wizard for adding or removing components and packages.
/p:["<package name>"] [/uninstall] [/silent]	Displays the wizard for choosing packages.
/patch	Only for a local installation from CD. Starts the wizard for selecting and applying a patch.
/server[:"\\<installation share folder>"] [/update]	Applies the delta for a new compilation.
/silent	Displays no user interface – not even progress.
/uninstall	Uninstalls all components.
/update	Updates all components.

You can call `SAPAdmin.exe` with the parameters listed in the table below.

SAPAdmin Parameter	Description
/config	Starts the configuration or installation of the DS.
/patch[:"<gui patch>"] [/silent]	Starts the wizard for selecting and applying a patch.
/server:"\\<Server>\<Share>"	Configures the specified installation server.

By default, SAPAdmin configures the installation server from which it was started. The /server switch is also useful for applying setup patches that contain SAPAdmin or other setup binaries. SAPAdmin cannot be replaced on the installation server from which it is running. To solve this without requiring to restart the server, you can run SAPAdmin from a different location, for example the Presentation CD, and apply a setup patch on your installation server by using this commandline :

```
<CD Drive>:\GUI\Windows\Win32\setup\sapadmin.exe
/server:"\\<Server>\<Share>"
```

13 Component List

The component list describes the features and functions of the selectable components, and the prerequisites for using them. The components are grouped under component groups.

List of Component Groups

Component Groups

Group	Description
SAP GUI	SAP GUI and related components.
R/3 Add-On	Front-end add-on for SAP R/3 Enterprise. This package contains application extensions needed for some R/3 transactions
General Add-On	Front-end add-on that can be used to extend functionality of SAP systems and that are not restricted to one SAP Component (R/3, BW, APO, CRM, SEM, KW, EP, ...)
Development Tools	Collection of Tools for Development.
Legacy Components	Components for use with older SAP releases (R/3 4.6 and lower) or old Office products (Excel 95, ...). These components will only be needed if you intend to use this version of SAP GUI for Windows with your old SAP installations.
APO Add-On	Front-end add-on for SAP Advanced Planning and Optimization (APO)
BW Add-On	Front-end add-on for SAP Business Information Warehouse (BW).
CRM Add-On	Front-end add-on for SAP Customer Relationship Management (CRM).
KW Add-On	Front-end add-on for SAP's Knowledge Management solution that includes all SAP training courses and all SAP documentation.
SEM Add-On	Front-end add-on for SAP Strategic Enterprise Management (SEM).

List of Available Components

SAP GUI

Component	Description
SAP GUI with SAPLogon	SAP graphical front end with starter application SAPLogon. The user can display and modify connection information for SAP systems using SAPLogon.
SAP GUI with SAP Logon-Pad	SAP graphical front end with starter application SAPLogon-Pad. The user can only display preconfigured connection information, for SAP systems, provided by the installation administrator.
SAP GUI Scripting	SAP GUI Scripting Interface.

GUI XT	GUI Extensions for client side customizing of SAP screens.
Shortcut to SAPlpd	Routing program for print output on Windows PCs. SAPlpd is addressed via a network connection or locally via SAP GUI. If used via network connection, PC must have a fixed IP address, and SAPlpd must be started manually before printing.

R/3 Add-On

Component	Description
EC-CS: Remote Data Entry	Module EC: Data input and validation of reported financial data without a connection to a R/3 System. Requires MS Access 97.
FI-LC: Remote Data Entry	Module FI: Data input and validation of reported financial data without a connection to a R/3 System. Requires MS Access 95 or 97.
Interactive Excel	Module FI or EC: Add-on to MS Excel for creating reports in Excel using data from FI-LC or EC-CS consolidation. Excel sheets can be filled with data from R/3 or the Remote Data Entry tools for FI-LC and EC-CS. It can be used for data entry into the FI-LC or EC-CS Remote Data Entry tool. Requires MS Excel 97.
CA-CAD Interface	Module CA: CAD interface of the SAP System.
EC-EIS: MS Word Link	Module EC /Executive Information System: Transfer of report data to Microsoft Word. Requires MS Word 95, 97 or 2000.
PD: MS Excel Link	Module PT/ Shift Planning: Allows to display the SAP duty roster data with Microsoft Excel. Requires MS Excel 5, 95, 97 or 2000.
PS: Export Interfaces	Module PS: Export of project data in the formats GRANEDA, MS Access and MPX. Requires Graneda, MS Project 4 or any other program that can read MS Access 7 data.
Windows Word Processor Integration	Module EH&S /Safety: Creation of templates and reports for the R/3 environment data system. Requires MS Word 95, 97 or 2000.

General Add-On

Component	Description
SAP Console	SAP Console is a framework in which several software components work together enabling users to access and execute R/3 transactions from character-based devices. The three main components involved are "SAP Console", "SAP Console Administrator" and "SAP Console I/O Engine". For Windows NT or Windows 2000 only!

SAPphone Call Status Control	The SAPphone Call Status Control allows to raise events to inform the R/3 SAPphone softphone user interface about telephony call state changes. The control itself has no user interface. It must not be reused by other components beside SAPphone. For Windows NT or Windows 2000 only!
SAPphone Server	Tool to connect the R/3 System to telephone systems and call centers. For Windows NT or Windows 2000 only!
Microsoft Outlook Integration	Integrates SAPoffice and WebFlow with MS Outlook, allowing the Outlook client to view, manipulate, and navigate SAPoffice folders and messages and WebFlow work items. In addition this software enables the SAPoffice Calendar to synchronize with the MS Outlook calendar in both directions. Requires Microsoft Outlook 98 or greater.
Graphical Distribution Network	Display and maintenance of a distribution network inside a corporation.

Development Tools

Component	Description
Graph Layout Toolkit	ABAP Development Workbench extension that offers graph editing and automatic layout.
Graphical Screen Painter	Graphical editor for the ABAP Development Workbench ScreenPainter.
RFC SDK Libraries	RFC Libraries for software developers. Includes the DCOM Connector and the DCOM Object Builder. DCOM Object Builder requires Visual C++ 5.0 or higher and OLEDB SDK. On Windows 95, 98 and NT4 a system upgrade using "mdac_typ.exe" by Microsoft is required.
SAPforms	SDK for programming SAP Business Workflow with Visual Basic forms, Microsoft Outlook forms, Lotus Notes forms, or Lotus Domino.
SAPforms (Runtime)	Contains the functions needed to start workflows and process SAP Business Workflow work items using Visual Basic forms, Microsoft Outlook forms, or Lotus Notes forms.
SAPforms (Design-time)	Contains the functions to enable Visual Basic forms, Microsoft Outlook forms, and Lotus Notes forms to start workflows and process SAP Business Workflow work items. SAPforms (runtime) are included.
SAPforms (Lotus Notes Server)	Contains the functions needed on a Lotus Domino server to develop and maintain Lotus Notes forms to start workflows and process SAP Business Workflow work items. SAPforms (design time) are included.

Legacy Components

Component	Description

XXL List Viewer	Export of tabular data of R/3 3.x, 4.0, 4.5 to the PC and display in Microsoft Excel. Requires MS Excel 95, 97 or 2000.
Lotus Connections	Export of tabular data of R/3 3.x, 4.0, 4.5 to the PC and display in the Lotus SmartSuite. Requires Lotus 1-2-3, WordPro, Approach or Notes.
Report Writer: MS Excel Link	Import filter of R/3 3.x, 4.0, 4.5 for MS Excel: converts a file exported by Report Writer in Excel format (RPW format) into an Excel spreadsheet. Works with Excel 95, 97 or 2000.
MS Word Link via RFC	Installation of Word connection for SAP R/3 3.x, 4.0A and 4.0B. Requires MS Word 6, 95, 97 or 2000.

APO Add-On

Component	Description
APO Front End	Front-end add-on for Advanced Planing and Optimization (APO)

BW Add-On

Component	Description
BW Add-on	Business Information Warehouse front-end components.
Extension for ArcView	ArcView Extension for Geo Coding. Note: Extension for ArcView does not exist in BW3.0B which comes with 6.20 Compilation 2.
OLE DB for OLAP Provider	Client components of OLE DB for OLAP Provider.

CRM Add-On

Component	Description
CRM	

KW Add-On

Component	Description
Knowledge Workbench	Authoring Tool to easily maintain SAP documentation and SAP training. Requires Microsoft Internet Explorer 5.
KW Online Editing	Knowledge Warehouse Editing within SAPGUI. Requires Microsoft Internet Explorer 5.
KW Translator	Knowledge Warehouse Translator: Translation tool to process translation packages offline. Requires Microsoft Internet Explorer 5.
PAW Author	Performance Assessment Workbench Author: Authoring Tool to easily maintain test items, performance units, performance tests and surveys. Contains "Knowledge Workbench" and "KW Translator". Requires Microsoft Internet Explorer 5.

SAP Show	Viewing Tool to display training courses offline, e.g. for classroom training.

SEM Add-On

Component	Description
Balanced Scorecard	Balanced Scorecard Presentation.
Graphical Assignment	Graphical Assignment Tool.
Management Cockpit	Management Cockpit Presentation. Requires System Upgrade using "mdac_typ.exe" by Microsoft on Windows 95, 98 and NT4.
Sales Planning	Sales planning Add-In to MS Excel. Requires MS Office 97 or MS Office 2000. You can use this Add-In to extend your local MS Excel to enable Sales Planning within Excel environment as part of Customer Relationship Analytics. Requires Microsoft Excel 97 or 2000.

14 Supplementary Notes

Microsoft MDAC

MDAC is a program used to upgrade Microsoft systems.

The following components require you to upgrade your system using `mdac_typ.exe`, version 2.5 or later:

- RFC SDK Libraries
- Management Cockpit

The Microsoft Component Checker Tool allows you to check which version of MDAC is installed on the PC.

If you have selected a component that requires Microsoft's `mdac_typ.exe`, and you have an English-language operating system, the installation automatically executes **`\system\mdac\en\mdac_typ.exe`**

If you have a Japanese-language system, the installation automatically executes **`\system\mdac\ja\mdac_typ.exe`**

There are several language-specific (or localized) versions available from http://www.microsoft.com/data/download.htm

If you have a localized installation (other than Japanese), the installation automatically executes **`system\mdac\local\mdac_typ.exe,`** if the non-English version exists there. Otherwise, the installation automatically executes **`\system\mdac\en\mdac_typ.exe`**

For more information on `mdac_typ.exe`, see Microsoft's home page on the Internet.

ADSI Setup

If you use the Lightweight Directory Access Protocol (LDAP), you nevertheless need the ADSI Setup (Active Directory Services Interface). There are several language-specific (or localized) versions of ADSI Setup available from Microsoft. However, we deliver only the English version on the CD. The English files are in the directory ..\system\ads\en:

- ads.exe (for Windows NT 4.0, Windows 2000, and Windows XP)
- ads98.exe (for Window 98)

To enable this version, use:

`setup.exe /p:"$ms adsi"`

You can find other language versions of ADSI Setup at the following URLs:

For Windows NT 4.0, Windows 2000, and Windows XP:

http://www.microsoft.com/NTWorkstation/downloads/Other/ADSI25.asp

For Windows 98:

http://www.microsoft.com/Windows95/downloads/contents/WUOther/ADSI25/Default.asp

The names of the original ADSI Setup files from Microsoft are for all languages:

- adsx86NT.exe (for Windows NT 4.0, Windows 2000, and Windows XP)
- ads98.exe (for Windows 98)

During the installation process of the files specified above dialog boxes appear which means that the installation process is not "silent".

To skip these dialog boxes, proceed as described in the file ..\system\ads\readme.txt.

If you prefer a specific language version, you can replace the files on your GUI server with the files for the corresponding language. The following prerequisites must be met:

- The files must have the following names:
  - **`ads.exe`**
  - **`ads98.exe`**
- The non-English files must reside in the directory ..\system\ads\local to be able to be called during the installation process.