

# **SAP Front End Installation Guide**



**Release 730  
Compilation 1**





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Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help* → *General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

## Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Cross-references to other documentation.
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles.
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example text</b>	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. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

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# SAP Front End Installation Guide

## Purpose

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

The document contains the following sub-sections:

[Introduction \[page 9\]](#)

[Planning \[page 15\]](#)

[Preparation \[page 19\]](#)

[Installation Process \[page 35\]](#)

[Additional Information \[page 44\]](#)

## 1 Introduction

### Scope of this Document

The SAP GUI family consists of:

- SAP GUI for Windows

This GUI is described in detail here.

- SAP GUI for Java

SAP GUI for Java is a generic SAP GUI that runs on a variety of platforms including Windows, Mac OS X, Linux, and UNIX platforms. It has the same look and feel as the Windows version with the exception of the platform-specific window design.

**This GUI is not described here.** Instead, you can find documentation describing the installation of SAP GUI for Java in either of the following places:

- In the folder *PRES2/GUI/DOC* on the *SAP NetWeaver Presentation DVD*.
- On SDN under:

<https://www.sdn.sap.com/irj/sdn/sap-gui> → *Installation* → *SAP GUI for Java*

The installation instructions for SAP GUI for the Java environment are in chapter 4 of the document *PlatinManual*.

- SAP GUI for HTML

SAP GUI for HTML is based on the SAP Internet Transaction Server (ITS), which has been integrated into the kernel of the SAP Web Application Server as of SAP NetWeaver 04 (SAP Web AS 6.40). If you are using SAP systems based on SAP NetWeaver releases older than SAP NetWeaver 04, make sure that the standalone ITS is installed on a dedicated server. On the desktop, a suitable browser is sufficient for both standalone and integrated ITS.

**This GUI is not described here** since the SAP GUI for HTML does not need SAP software to be deployed on the client.

SAP GUI for HTML and SAP GUI for Java do **not** have all the capabilities of SAP GUI for Windows. Some applications such as SAP BI or SAP SCM require the SAP GUI for Windows. More information: Master Guides for the relevant SAP products

More information about the SAP GUI family: <https://www.sdn.sap.com/irj/sdn/sap-gui>

### Platforms

SAP GUI for Windows provides support for the most common Microsoft Windows platforms:

- Windows XP
- Windows 2003 Server
- Windows Vista
- Windows 7
- Windows 2008 Server
- Windows 2008 R2 (Server)
- Windows 8 (planned)

More information: SAP Product Availability Matrix at <https://service.sap.com/pam> or **SAP Note 66971**

### Compatibility

SAP GUI for Windows 7.30 is compatible with all SAP products based on SAP NetWeaver 7.30 and all earlier releases of SAP software that are still supported by SAP.



Only one version of SAP GUI is possible.


SAP GUI for Windows uses the Microsoft Controls technology, which means that all controls are registered locally during the installation. 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 on a single computer only one version of SAP GUI for Windows can be installed. During installation of a new SAP GUI release, any older SAP GUI release present on the computer is uninstalled. However, SAP GUI for Windows supports virtualization products like Citrix XenApp, Microsoft App-V and VMWare Thinapp which can be used to run multiple SAP GUI versions on the same client in parallel if needed.

## 1.1 New or Changed Features in SAP GUI 7.30

This section lists the features that are new or changed with SAP GUI for Windows 7.30:

Area	Changed or New Feature
Support	<p><b>Longer lifetime:</b></p> <p>SAP GUI for Windows 7.30 is built with Visual Studio 2010 (which is supported until July 2015). Therefore, SAP GUI for Windows 7.30 can be supported longer than release 7.20.</p>
Visual Appearance	<ul style="list-style-type: none"> <li>• <b>New SAP GUI design "Corbu":</b> The new "Corbu" design comes with a reduced color palette and enables a good integration into NWBC and SAP Portal with respect to look and feel.</li> <li>• <b>Support for different color schemes in SAP Signature Design:</b> The color scheme can be changed per system and even per client in order to distinguish different systems more easily. SAP offers 5 different color schemes (blue, red, green, purple and gold). Additionally, a system administrator can define a default color scheme per system.</li> </ul>
Usability	<ul style="list-style-type: none"> <li>• <b>Customizable tab order:</b> Users can change the tab sequence on application screens according to their needs.</li> <li>• <b>Comments for connection entries in SAP Logon:</b> In SAP Logon, users and administrators can define comments per connection entry/shortcut/favorite. This will help users to identify the purpose of each entry.</li> <li>• <b>SAP Logon - Navigation to connection entry:</b> In SAP Logon, you can now easily navigate from a favorite entry to the related connection entry.</li> <li>• <b>Floating docking containers:</b> Docking containers (like in transaction SE80) can be moved as preferred by the user. The user settings can be persisted to enable users to change the layout of some screens according to their preference.</li> <li>• <b>Usability improvements in ALV:</b> Some operations in ALV (like the block copy) have been improved.</li> <li>• <b>Usability improvements for the security configuration:</b> The security center in the SAP GUI options dialog is now larger and can be resized. Additionally, users can search and filter for rules.  Furthermore, the dialog that is displayed to a user in case a security-relevant event is triggered (like the starting of an external program on the PC) has been significantly simplified.</li> <li>• <b>Improved "Loaded DLLs" dialog:</b> The <i>Loaded DLLs</i> dialog is now resizable. You can sort and</li> </ul>

	<p>the order of loaded modules is enhanced.</p> <ul style="list-style-type: none"> <li>• <b>SAP GUI options dialog supports different font sizes:</b> In release 7.20 the font size settings did not have any effect on the SAP GUI options dialog. Now the SAP GUI font size is also used in SAPGUI options dialog.</li> </ul>
<b>Security</b>	<p><b>Indication of security status:</b></p> <p>Once a connection to an SAP System has been established, SAP GUI shows whether the connection is secure or not (indicated by a lock icon in the SAP GUI status bar).</p>
<b>Customization</b>	<ul style="list-style-type: none"> <li>• <b>Branding:</b> Administrators can add a logo in the title bar of SAP Signature design to allow customer specific branding on SAP GUI screens.</li> <li>• <b>Improved customization of SAP GUI during the installation:</b> The general rule is that HKCU has precedence over HKLM configurations. Therefore the administrator can consistently use HKLM to distribute default values.</li> <li>• <b>Customizable permissions in the SAP GUI options dialog:</b> An administrator can define which sections / values can be changed by the users and which ones cannot.</li> <li>• <b>Hiding unwanted SAP Logon view modes:</b> The administrator can hide the buttons for any of the view modes in SAP Logon (Tree View, Explorer View or List View). See SAP Note 1710864 for more information.</li> </ul>
<b>Internationalization Support</b>	<p><b>Improved RTL version of Textedit Control:</b></p> <p>A version of the Textedit Control that is better suited to RTL (right to left) languages like Hebrew and Arabic has been developed.</p>
<b>NWSAPSetup</b>	<p><b>Reparation of Front-end software installations using NWSAPSetup:</b></p> <p><code>NWSAPSetup /repair</code> checks for discrepancies in files, services, registry-keys, and other artifacts deployed using NWSAPSetup and repairs the installation of SAP front-end components based on the outcome of these checks.</p>
<b>Removed Features</b>	<ul style="list-style-type: none"> <li>• <b>BW 3.5 Add-On:</b>  BW 3.5 Add-On has been removed. For details, see notes 1652771 and 1652772.</li> <li>• <b>SAP Logon-based update:</b> The SAP Logon based update mechanism (when starting SAP Logon, SAP GUI checks for updates on the installation source and applies the updates) has been removed, because a superior mechanism is available (the SAP Workstation Update - WUS).</li> <li>• <b>SAPPhone Server:</b> The SAPPhone Server and the SAPPhone Status Update control are no longer delivered together with SAP GUI for</li> </ul>

	<p>Windows 7.30. For more information see SAP note 171201.</p> <ul style="list-style-type: none"> <li>• <b>PS:Export Interfaces:</b> The component <i>PS: Export Interfaces</i> is not delivered anymore with SAP GUI.</li> <li>• <b>Balanced scorecard and Sales Planning:</b> The SEM components <i>Balanced scorecard</i> as well as <i>Sales Planning</i> are not part of the delivery of SAP GUI for Windows 7.30. For more information, see SAP Note 1665318.</li> </ul>
<b>Documentation</b>	<p><b>Administration Guide:</b> SAP GUI 7.30 is delivered with a SAP GUI administration guide that describes how to configure and administer SAP GUI for Windows.</p>

## 1.2 General Features Overview

This section describes the general features of NetWeaver SAPSetup (NW SAPSetup) that have already been introduced with SAP GUI 7.10:

- The multi-product installation tool lets you maintain not only the SAP GUI for Windows 7.10 but almost all Windows-based SAP front-end software on a single installation server.
- Installation server features, such as *Import Product*, help integrate additional SAP front-end components into an existing installation server.
- You can configure packages with multiple SAP front-end components.
- With NW SAPSetup you can manage multiple SAP front-end components that are deployed on the front ends.
- If available on the installation server, you can deploy multiple SAP front-end components on the front ends using a command on a single line.
- NW SAPSetup provides full-featured install, uninstall, update, and patch of SAP front-end components that are available on an installation server or distribution medium such as a DVD.
- Wizard-driven user interfaces let you manage the installation server easily.
- You can install new components, uninstall existing ones, and update the remaining components in one cycle.
- You can customize the installation of packages by programming events that support Visual Basic (VB) scripting.
- Local Security Handling (LSH), when configured, lets you deploy SAP components on front ends without requiring administrative privileges on all machines.
- An Automatic Workstation Update Service will update the workstations and reboot them if necessary, whenever the installation server is patched, or the packages installed are updated.
- The folder for installation server creation is automatically configured. By default, it is made NULL-session accessible. Thus, it will be automatically shared on the network for everyone to read. This feature can also be switched off.

- The remote workstation control feature uses the Windows Management Instrumentation (WMI) to help you remotely access and control workstations on which you have administration privileges. You have the possibility to collect remote log files, execute processes remotely, and to enumerate remote processes.
- If `NwSapSetup.exe` is started from a batch file, the return code can be caught by the `%ErrorLevel%` environment variable.

### 1.3 SAP Notes for the Installation

You must read the following SAP Notes before you start the installation. These SAP Notes contain the most recent information about the installation, as well as corrections to the installation documentation.

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at <https://service.sap.com/notes>.

#### SAP Notes for the Installation

SAP Note Number	Description
456905	Composite SAP Note about SAPSetup as of Release 6.20. Lists the SAP Notes relevant for the installation of SAP GUI for Windows.
26417	Latest information about hardware and software requirements of SAP GUI for Windows
66971	Latest information about supported front-end platforms
147519	Latest information about release and maintenance strategy of SAP GUI.
166130	Latest information about delivery and compatibility of the components delivered on the SAP NetWeaver Presentation DVD.

### 1.4 Information Available on SAP Service Marketplace

#### Installation of the SAP GUI for Windows

Latest version of this document: SAP Service Marketplace at <https://service.sap.com/instguidesNW>

#### Installation of the SAP GUI for Java

You find Information about the installation of SAP GUI for Java on SDN under <https://www.sdn.sap.com/irj/sdn/sap-gui> → *Installation* → *SAP GUI for Java*.

#### Installation of the SAP Online Documentation

You can access the SAP online documentation from the front end. The installation of the SAP online documentation is described in the document *Installing the SAP Library* on SAP Service Marketplace at <https://service.sap.com/instguidesNW> → *Other Documentation* → *SAP Library*.

## SAP GUI Family

You find Information about the SAP GUI family on SDN under <https://www.sdn.sap.com/irj/sdn/sap-gui>.

## Supported Platforms

Information about the platforms on which you can run SAP GUI: SAP Product Availability Matrix at <https://service.sap.com/pam> or **SAP Note 66971**

## 1.5 Naming Conventions

“Upgrade” means the transition from one release to another, for example, from 7.20 to 7.30.

“Update” means a change within the same release. You use a “patch” to apply the update.

## 2. Planning

### Purpose

This section tells you how to plan the front-end installation.

### Process Flow

1. You plan an [installation scenario \[page 16\]](#).
2. You meet the [hardware and software requirements \[page 18\]](#).
3. You review the [installation and maintenance flow \[page 18\]](#).

## 2.1 Installation Scenarios

You can install SAP GUI for Windows in the following ways:

- Workstation installation from a server  
The administrator sets up an installation server, from which the installation of the SAP front-end software is run on many different clients.  
All the necessary files are copied from the server to the client during installation.
- Workstation installation from a distribution medium such as a DVD  
The administrator takes the distribution medium from PC to PC. This is mainly for testing or for standalone computers and is not to be used for software distribution.



We recommend you to use **workstation installation from a server** because of its greater flexibility, especially if many workstations are involved.

These methods are described in more detail below.

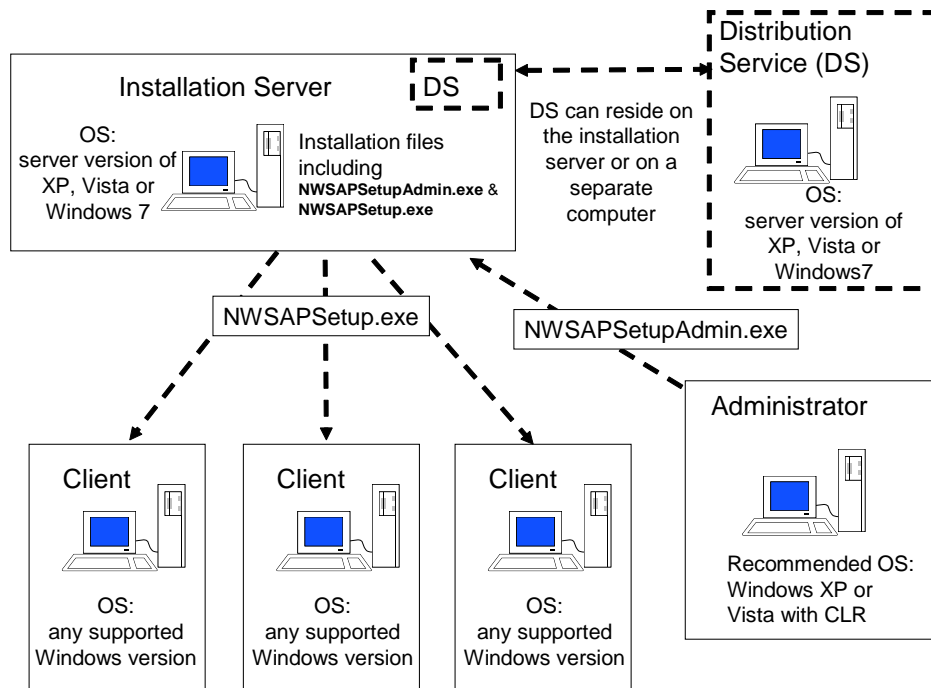
### Workstation Installation from a Server

The installation process from an installation server is flexible, easy, and customizable. It makes maintenance easier in any phase of the distribution process, for example, when patches are to be applied.

You have the following options when installing SAP GUI for Windows with server-based workstation installation:

- Without user interaction (unattended)
- With user interaction (attended), where the user can:
  - Select from installation packages that the administrator configured
  - Select from the complete component list of each product available on the installation server

The following figure shows how server-based installation works:



The type of user determines which components to install and on which workstations. Different types of user have different requirements. For example, an employee in the HR department requires different products and components than a software developer.

Using an installation server, the administrator can group various components together as installation packages relevant for certain types of employee. The administrator can also specify which package particular users receive or offer a variety of packages and allow the user to choose the most appropriate one.

In addition, you can configure a distribution service to add [local security handling \[page 31\]](#) (LSH) functions to the installation server. With local security handling, the installation can be started even in the context of a user who is not a member of the local group of administrators. The distribution service then installs a service process on the client and starts `NWSAPSetup.exe` in the context of this service. The user rights and privileges are not altered. The installed service does not start other processes except `NWSAPSetup` from configured installation servers.

The hard disk requirement on the installation server depends on the type and number of products that are added to an installation server. SAP GUI for Windows requires approximately 800 MB with all components installed.

As administrator, you can configure your own installation packages with `NWSAPSetupAdmin.exe` on the installation server or use the preconfigured packages provided by SAP.

You apply patches on the installation server and call `NWSAPSetup` on your client again to apply the patch on the client. You can control the installation using the command line. You can perform unattended installations with automatic patch installation 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.

Alternatively, you can use the SAP Automatic Workstation Update. Whenever the installation server is patched, or the packages installed are updated, this service will update the workstation(s) and reboot them if necessary. The workstation updater works in two modes - one in the presence of a logged-on user and another in his or her absence:

- When a user is logged on, the user is informed of update availability and the update happens on the user's assent. The user is also informed if a reboot is necessary and the reboot is also only executed on the user's assent.

- If no user is logged on, the update is done automatically and the reboot (if necessary) is done automatically, too.

The SAP Automatic Workstation Update is not SAP GUI-specific, it works with all components available on the installation server. For detailed information, see section 3.9 *Configuring SAP Automatic Workstation Update*.

### Workstation Installation from a Distribution Medium

Local installation on workstations with a distribution medium such as a DVD is useful for installing SAP GUI on single machines (for example, laptops) that are not connected to a Local Area Network (LAN). You can also use it for test purposes.

This installation type has the following disadvantages:

- No installation scenarios are available.
- When patches need to be applied, you need to patch each workstation separately.

## 2.2 Hardware and Software Requirements

You need to make sure in advance that your system meets the following requirements:

- Front-end workstations:
  - Read **SAP Note 26417** to check that all hardware and software requirements for the front-end workstations have been met.
  - Hard-disk clones only:

If the operating systems of your client computers were generated through hard-disk cloning, make sure that the domain is set correctly. To do this, take the computers out of the domain and then put them back in. This is especially important if you intend to use [local security handling \(LSH\) \[page 31\]](#).
- The host for server-based installations must:
  - Be accessible to all users at any time, even after the installation is complete  
This is required for maintenance purposes such as the distribution of patches.
  - Have broadband network connection for high throughput
  - Have 800 MB of free disk space
  - Use Windows 2008 R2 Server or Windows 2003 Server

## 2.3 Installation and Maintenance Flow

### Purpose

This section describes a typical installation and maintenance flow for a server-based workstation installation.

### Process Flow

1. You [set up an installation server \[page 20\]](#) and, if necessary, [local security handling \[page 31\]](#) (LSH).

The installation server contains:

- Installation programs
- Configuration information (for example, packages)
- Service files (for local security handling)

- Front-end components to be installed
2. You [maintain installation packages \[page 25\]](#) for different user groups.  
Users can install multiple packages and packages can share components. You can configure installation parameters, such as installation directories for the components that a package contains.
  3. We recommend that you [configure local security handling \[page 31\]](#) and test it.  
You can do this by logging on to a user PC with a user that does not have local administrator rights and running `NWSAPSetup.exe`.



Many Windows operating systems 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.

NWSAPSetup solves this problem with the Distribution Service (DS), which resides on the server, and the Installation Service (IS) that has been installed on the workstation. The IS starts a new instance of `NWSAPSetup.exe` that runs with sufficient privileges.

4. You [install packages using the logon script \[page 40\]](#) of your PC or using other software distribution technologies.
5. You [patch the installation server \[page 30\]](#).
6. You [upgrade the front-end \[page 43\]](#) client computers when a new front-end release becomes available.

## 3. Preparation

### Purpose

This section tells you how to **prepare an installation server** for the front-end software installation.

### Process Flow

1. You [set up an installation server \[page 20\]](#).
2. If required, you [administer your installation server \[page 22\]](#).
3. If required, you [add new SAP front-end components to an existing installation \[page 22\]](#).
4. If required, you [update products on the installation server with a newer version using a patch \[page 24\]](#).
5. If required, you [create and maintain installation packages \[page 25\]](#).
6. If required, you [patch the installation server \[page 30\]](#).
7. If required, you [configure local security handling \[page 31\]](#).



After you have set up the installation server, it is ready for use during the deployment of SAP front-end components on the workstations.

Creating packages for deployment is optional. Packages contain administrator-selected components, which are helpful to regulate and customize installation parameters such as the installation directory.

## 3.1 Setting Up an Installation Server

### Use

You use this procedure to help distribute SAP front-end software on multiple workstations on the network.

`NWCreateInstServer` is a wizard driven tool that helps the administrator create a new installation server. After the server is set up, `NWUpdateInstServer` starts importing SAP products from the source into the newly created server.

### Prerequisites

You need local administrator rights under Windows operating systems with local security mechanisms.

### Procedure

1. Execute the file `NwCreateInstServer.exe` from the `SETUP` folder of the DVD *SAP Product Media*.
2. Choose *Next* to continue.



You can choose *Cancel* at any stage to abort the process.

`NWCreateInstServer.exe` prompts you to supply the path where you want to create the installation server.

3. Enter the folder name manually or use *Browse* to navigate to the folder where you want to create the installation server. Make sure the folder is empty.
4. Choose *Verify* to make sure that the chosen folder meets the prerequisites:
  - It must exist.
  - It must be accessible to the administrator with full access.



The folder is automatically configured. It is made NULL-session accessible. Thus, it will be automatically shared on the network for everyone to read. If you do not want this automatic configuration, use the command line parameter `DontConfigureServerPath`.

5. If required, choose *Share* to maintain the file-sharing properties of the selected folder.
6. Choose *Next* to continue.

You see a screen indicating that the server is being created.



Processing is recorded in the following file:

```
%ProgramFiles%\SAP\SAPSetup\Logs\NwCreateInstServer.log.
```

If there are errors, you see a link to an *Error Report*. Any errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SAPSetup\Errors\NwCreateInstServer_<CurrentDateTime>.xml.
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

When the installation is complete, you see a screen confirming that the server has been successfully created.

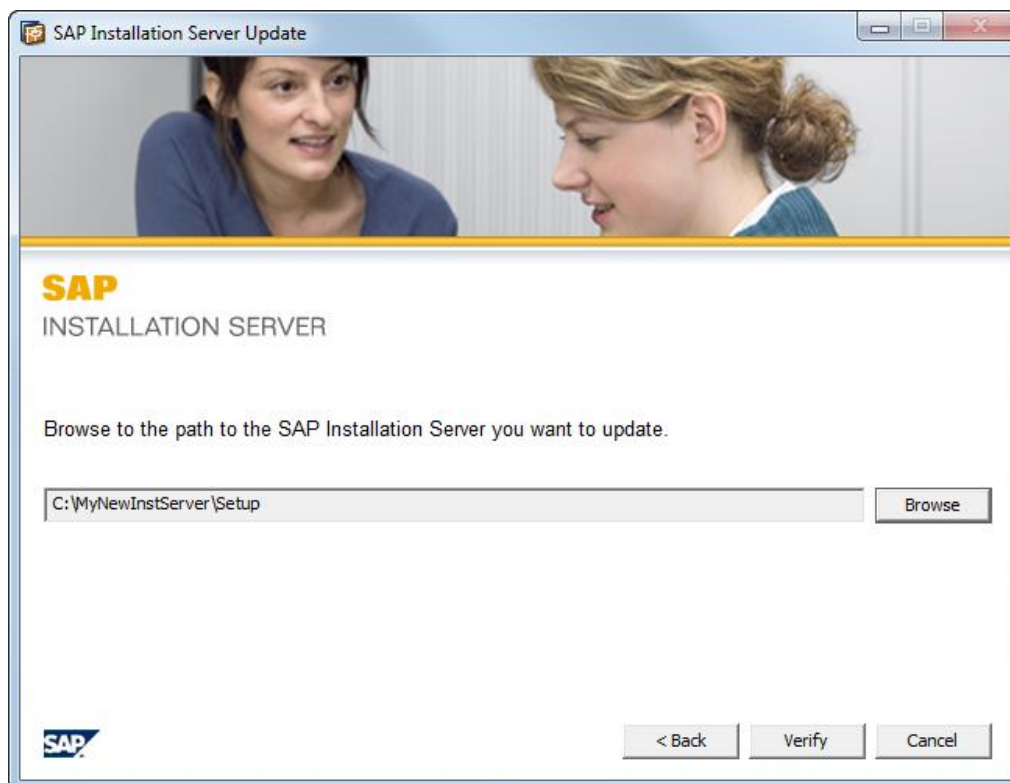
You now have a valid but empty `SAPSetup` installation server.

7. Choose *Next* to continue.

NWCreateInstServer.exe automatically calls NWUpdateInstServer.exe to transfer SAP products to your installation server.

8. Choose *Next* to continue.

You see the following screen:



C:\MyNewInstServer is the path where NWCreateInstServer.exe initially created a new installation server in this example.

9. Enter the folder name manually or use *Browse* to navigate to the folder of the installation server that you want to update.
10. Choose *Next* to start the server update.

You see a screen indicating that the server is being updated.



Processing is recorded in the following file:

```
%ProgramFiles%\SAP\SAPSetup\Logs\NWUpdateInstServer.log
```

If there are errors, you see a link to an *Error Report*. Errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SAPSetup\Errors\  
NWUpdateInstServer_<CurrentDateTime>.xml
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

NWServerUpdate.exe transfers all SAP products available on the DVD or source to the installation server.

When the update is complete, you see a screen confirming that you can use the installation server for SAP product installation on end-user workstations.

11. If you have .NET Framework version 4 installed, choosing *Finish* automatically starts `NWSAPSetupAdmin.exe` from the recently updated installation server.

The new NetWeaver SAPAdmin is a multi-product server administration tool.

More information: [Administering an Installation Server \[page 22\]](#)



You can replicate an installation server to an existing network share by entering the following command:

```
\\InstallationServerShare\Setup\NwCreateInstServer.exe  
/Dest=<ReplicationPath> /NoDlg
```

After setting up your installation server, it is recommended to look for the latest patches. See also chapter [3.7 Patching the Installation Server](#).

## 3.2 Administering an Installation Server

### Use

After you have successfully set up the installation server, you can find `NWSAPSetupAdmin.exe` in the `SETUP` directory of the installation server.

`NWSAPSetupAdmin.exe` is designed to help you administer the multi-product installation server. It supplies the following features:

- **Import Product**  
Use this feature to add new products (for example, SAP front-end components) to an existing installation server for distribution over the network.
- **Export Product**  
Use this feature to export front-end components available on one installation server to another.
- **Delete Product**  
Use this feature to delete a product from an installation server.
- **Create Package**  
Use this feature to create packages for deployment. Packages can contain many components and their installation parameters can also be customized.
- **Create Package Definition File (PDF)**  
You can create a package definition file (PDF) for an installation server package. PDF is a package description format that simplifies the interoperability and information exchange between the SAP Installer and system management products like the System Management Server from Microsoft.
- **Configure Package**  
Use this feature to change the attributes or the content of your packages.
- **Patch**  
Use this feature to patch components that are available on the installation server.
- **Local Security Handling**  
This feature allows workstation users to install SAP components from the installation server without requiring administrative privileges.



`NWSAPSetupAdmin.exe` requires the *.NET Framework 4* to be installed as a prerequisite. You can download the *.NET Framework* from:

<http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=17718>

- **Configuring SAP Automatic Workstation Update**

Whenever the installation server is patched, or the packages installed are updated, this service will update the workstation(s) and reboot them if necessary. The workstation updater works in two modes - one in the presence of a logged-on user and another in his or her absence:

- When a user is logged on, the user is informed of update availability and the update happens on the user's assent. The user is also informed if a reboot is necessary and the reboot is also only executed on the user's assent.
- If no user is logged on, the update is done automatically and the reboot (if necessary) is done automatically, too.

- **Control Remote Workstations**

This functionality uses the Windows Management Instrumentation (WMI) to help you remotely access and control workstations on which you have administration privileges. You access this feature via the *Remote* menu, where you find the options to:

- collect remote log files
- execute processes remotely
- enumerate remote processes

You find detailed information in section [Controlling Remote Workstations](#).

## 3.3 Adding New SAP Front-End Components to an Existing Installation Server

### Use

This procedure tells you how to transfer new SAP front-end components on a distribution medium to your installation server. Then you can deploy them to the workstations on the network.

You can add SAP products either using `NWUpdateInstServer.exe` or `NWSAPSetupAdmin.exe` (using the import product wizard) that you can find in the `SETUP` directory of the source medium.

### Prerequisites

- An existing installation server
- A medium that contains an SAP product to be added to the installation server
- Enough disk space



You must **not** use the installation server during processing.

### Procedure

To update the installation server with new SAP components, use one of the following two methods:

- Using `NWUpdateInstServer.exe`
  - a. Start `NWUpdateInstServer.exe` from the `SETUP` directory of the source that contains the component to be added.
  - b. Supply the path of the installation server.
  - c. Follow the wizard to update it with components that are available on the source.
- Using `NWSAPSetupAdmin.exe`
  - a. Start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the installation server that needs to be updated with the new component.
  - b. In the toolbar, choose *Import Products*.
  - c. Follow the wizard and supply the path to the source containing the product to be added to the installation server.

### Example

You can update the installation server with the Adobe LiveCycle Designer which is delivered on the same DVD as the SAP GUI for Windows. You just have to start the program `<Disc Drive of DVD>\ADOBE_LC_<release>\setup\NwUpdateInstServer.exe`. After being shown a welcome page, you will be asked for the path to the installation server that should be updated. Here, you must navigate to the path of the installation server which has been set up in section 3.1 (`C:\MyNewInstServer\`).

You just have to choose *Next* and wait until the process ends. Afterwards, the SAP Setup Installation Server Administration Tool (`NWSAPSetupAdmin.exe`) is displayed. On the *Products* tab, you will see the added product Adobe LiveCycle Designer.

The user can now install the product by starting the program

`<Path of the installation server share>\SetupAll.exe` and selecting the product to be installed, in this case the Adobe LiveCycle Designer.

## 3.4 Updating Products on the Installation Server with a Newer Version

### Use

If newer releases of SAP products or components are required, you have to update your installation server to be able to distribute these new products to the workstations using a network.

This wizard-driven process is handled by a tool called `NWUpdateInstServer.exe` that you can find in the `SETUP` directory of your source medium.

### Prerequisites

- A medium with an SAP product in a release newer than that on the installation server
- Enough disk space



You must **not** use the installation server during processing.

### Procedure

1. Follow the steps as described in [Adding New SAP Front-End Components to an Existing Installation Server \[page 23\]](#).
2. Start `NWUpdateInstServer.exe` from the source medium.

3. Follow the instructions in the wizard.



You can also update products on the Installation Server by using the following command line:

```
\\UpdateSource\Setup\NwUpdateInstServer.exe  
/dest=<installation server setup directory> /NoDlg or  
/silent
```

For a description of the command line parameters see section 5.5.


## 3.5 Deleting Products from the Installation Server

To delete products from the installation server, proceed as follows:

1. Start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the installation server where you want to delete a product.
2. On the *Products* tab, right-click the product to be deleted and choose *Delete Product*.  
The product deletion wizard appears.
3. Follow the deletion wizard.

At the end of the deletion process, a message will inform you, if the deletion process completed successfully.



If you delete a product that is still a part of a preselection package, the indicator  appears next to name of the affected package on the *Packages* tab. This indicates that a product that is a part of the package is not available on the installation server. Thus, either the package has to be deleted or the product must be re-imported into the server from another source.

## 3.6 Creating and Maintaining Installation Packages

After setting up an installation server, you can create packages for an installation performed by users. The tool that you use is `NWSAPSetupAdmin.exe`, which you can find in the `SETUP` folder on the installation server.

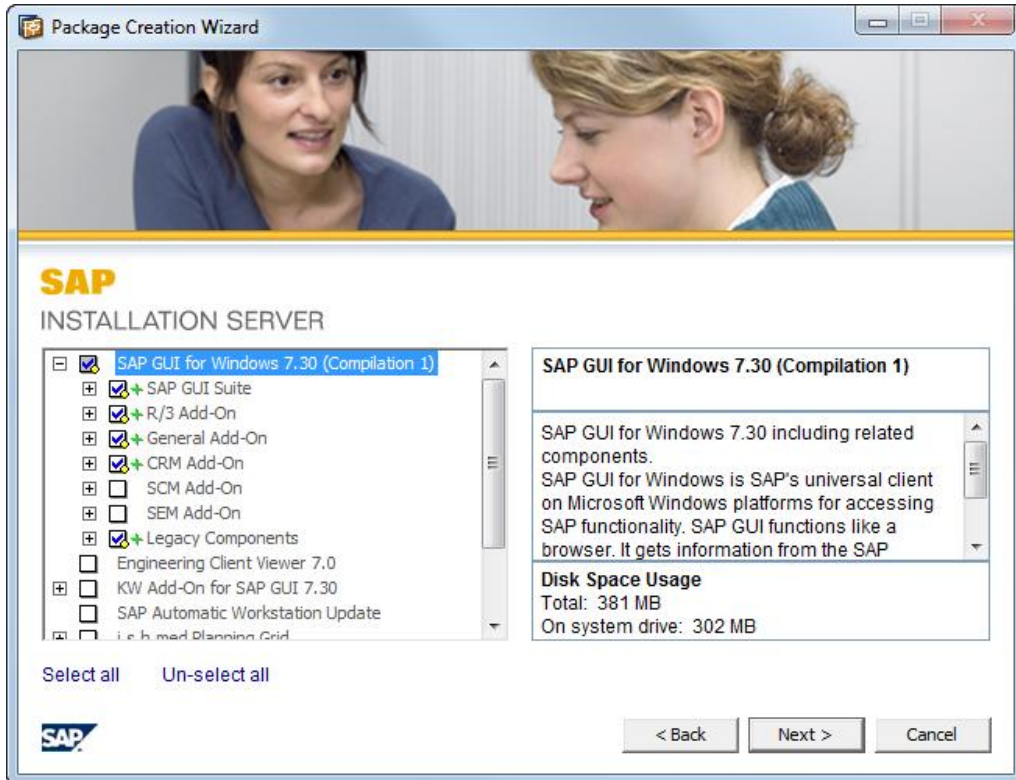
The package creation and deployment in the new NetWeaver SAPSetup is enabled on multiple-product level, so enabling the administrator of the installation server to create packages comprising more than one SAP front-end component and parts.

### 3.6.1 Creating a New Installation Package

#### Procedure

1. Start `NWSAPSetupAdmin.exe` from the `SETUP` folder of your installation server.
2. In the toolbar, choose *New Package*.  
The *Package Creation Wizard* appears.
3. To continue, choose *Next*.  
The wizard displays components available on the installation server.
4. Select the products that you want to add to your package.

Yellow dots indicate changes in the selection list. The green plus signs next to the product names indicate that these products will be installed when the user installs the package on his or her workstation.



5. Choose *Next*.  
You are prompted for a package name.
6. Enter a name and choose *Next*.  
`NWSAPSetupAdmin.exe` now creates a package and confirms the successful creation.
7. To return to `NWSAPSetupAdmin.exe`, choose *Finish*.  
The newly created package is now visible in the *Package View*.
8. Right-click a package and choose *Configure* from the context menu to customize installation parameters, such as the installation path for components contained in the package.

### 3.6.2 Configuring Packages and Scripting Events

#### Purpose

Package configuration lets the administrator change the attributes of a package (for example, the name), give the package a description and customize the installation of the package by adding scripts that are to be executed during events in the package deployment cycle.


#### Prerequisites

- An installation server
- Packages created by the administrator and available for customization

#### Process Flow

1. Start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the Installation Server.
2. Switch to the *Configure Packages* tab page. In the left window pane, you can see a tree listing the existing packages.



The indicator  next to a package indicates that the package is incomplete. This typically occurs when a product that the package contains has been deleted from the installation server. You can either delete this package or re-import the missing product.

3. Select the package that you want to customize. You can for example change the name of the package, add a description, or script events.



The text supplied as description is eventually visible to the end-user wanting to install the package using `NWSAPSetup.exe`.

4. Optional: Add event-scripting to perform custom actions on the user's workstation during the installation of the package (for example, copying additional files). You can insert scripting samples delivered by SAP via *Insert Script* and adapt them to your requirements. The scripts are executed at the following events:

- On Begin Install: executed before the installation of a selected package
- On End Install: executed after the completion of package installation
- On Begin Uninstall: executed before the uninstallation of a selected package
- On End Uninstall: executed after the completion of package uninstallation
- On Begin Update: Executed before the update of a selected Package.
- On End Update: Executed after the completion of the Package update.

To learn more about the package update option see the next section [Changing the Package Content](#).

5. To save your changes, choose *Save*.

### Sample documentation

The documentation of the samples for package event scripting is contained in the `Installation Server Help.chm` file, which you can either find on the DVD, or in the installation directory, or using the SAPSetup Installation Server Administration Tool (`NWSAPSetupAdmin.exe`) by choosing the *Help Menu* → *SAP Installation Server Help*. In this documentation, navigate through the tree structure as follows: *Administering an Installation Server* → *Maintaining Installation Packages* → *Configuring Packages and Scripting Events* → *Package Event Scripting Samples*.

## 3.6.3 Changing the Package Content

### Purpose

The package configuration lets the administrator also update the package content. This means, you can add or remove components to be installed with the package. Also, you can add scripts that are to be executed before or after the update.

### Prerequisites


- An Installation Server

- Packages created by the administrator and available for customization.

### Process Flow

1. Start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the Installation Server.
2. Switch to the *Configure Packages* tab. In the left window pane, you can see a tree listing the existing packages.



The indicator  next to a package indicates that the package is incomplete. This typically occurs when a product that the package contains has been deleted from the installation server. You can either delete this package or re-import the missing product.

3. Select the package for which you want to update the content, and choose *Change Package Content*.  
You can now select or deselect components. Components added will be newly installed on the workstations. Those removed will be uninstalled from the workstations, if they are not part of any other package marked for installation. When updating a package, the package installation parameters are also refreshed and include new variables or delete those that belong to components that are no longer part of this package.
4. Optional: Add event-scripting to perform custom actions on the user's workstation during the update of the package. You can insert scripting samples delivered by SAP via *Insert Script* and adapt them to your requirements. The scripts will be executed before and after the update:
  - a. On Begin Update: Executed before the update of a selected Package.
  - b. On End Update: Executed after the completion of the Package update.
5. Remember to click the *Save* button to persist changes made.  
Saving the package increases the version number and the package is marked for update on the workstation. When the package installation is updated on the workstation, the package components that have been newly added or removed by the administrator are automatically installed or uninstalled respectively.



If you are using package event-scripting to transfer your files, the *Mark for Update* link as seen on the *Configure Packages* tab can be used to inform the installer of the availability of an update after you have modified this file. The installer will now recognize the package as updated and the modifications will be transferred to the workstations at update time via the `OnBeginUpdate` and `/or OnEndUpdate` scripts.

## 3.6.4 Deleting an Installation Package

### Procedure

1. Switch to *Package* view.
2. Right-click the package you want to delete.
3. From the context menu, choose *Delete Package*.

The package is deleted. It is removed from the *Package* view.

### 3.6.5 Creating a Package Definition File

#### Use

You can create a package definition file (PDF) for an installation server package. PDF is a package description format that simplifies the interoperability and information exchange between the SAP Installer and system management products like the System Management Server from Microsoft.

#### Procedure

Proceed as follows to create a package definition file:

1. If not already started, start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the installation server.
2. On the *Packages* tab, right-click the package for which you want to create a PDF file and choose *Create Package Definition File*.
3. Choose the directory where you want to save the file, enter a file name, and choose *Save*.

#### Result

`NWSAPSetupAdmin.exe` creates a PDF and an SMS file in the specified directory.

### 3.6.6 Creating and Deploying Self-Installing Packages

#### Use

You can create single-file self-installing `.exe`-packages via `NWSAPSetupAdmin.exe`.

Such a package contains only those files that belong to the components that are a part of the package. Thus, it reduces your network load in certain distribution scenarios where you previously had to make local copies of your installation source before installing.

This single-file self-installer can also install silently without user interaction.

#### Prerequisites

- You have created a SAP installation server using `NWCreateInstServer.exe` available with your SAP GUI DVD, or inside the `SETUP` folder of any other SAP software installed using SAP Installer.
- You have created a package or packages that contain the desired components.
- Optional: If you want to distribute configuration files, e. g. the `saplogon.ini`, together with the self-installing package, create a folder on the installation server named `CustomerFiles`, and copy your files in this folder. See also the scripting example [Sample 1: Copying a file that you find by following the instructions given in section \[Configuring Packages and Scripting Events\]\(#\), point 4.](#)

#### Procedures

Proceed as follows to create or deploy a self-installing package:

##### Creating a self-installing package

1. Start `NWSAPSetupAdmin.exe` (you will need `.NET 2.0` to use this version).

2. In the `Packages` tree, right-click the package you want to create a self-installing file from, and choose `Compress Package To Single-File Installer`.
3. Following the wizard instructions, you will get a single exe-self-extractor at the end of the process.
4. Close `NWSAPSetupAdmin.exe`.

### Deploying a self-installing package

1. The self-installing file created above can be executed on any workstation to install your package.
2. Follow the installation wizard.  
This self-installing package can be installed silently (i.e. without user-interaction) when invoked with the command-line parameter `/silent`.

### Result

You have created and deployed a self-installing package.

### Troubleshooting

If you face problems with creating a self-installing package, check first that your server has no missing files - via the *Check Server* feature in the `NWSAPSetup` administration tool (`NwSapSetupAdmin.exe`).

If you encounter problems with installing the self-installing package, use the *Check-Workstation* tool (`NwCheckWorkstation.exe`).

## 3.7 Patching the Installation Server

### Use

Patching products on the installation server keeps them up-to-date with the most recent correction and enhancements from SAP.

You can configure the SAP Automatic Workstation Update. This service will update the workstation(s) and reboot them if necessary whenever the installation server is patched, or the packages installed are updated. The workstation updater works in two modes - one in the presence of a logged-on user and another in his or her absence. For detailed information, see section 3.9 *Configuring SAP Automatic Workstation Update*.

### Prerequisites

- An existing installation server



To ensure a successful patch and to avoid having to reboot after the patch, you can unshare the installation server during the patch and recreate it when the patch has finished.

- A patch supplied by SAP for products or components available on the installation server.

### Procedure

1. Start `NWSAPSetupAdmin.exe` from the `SETUP` directory of the installation server.
2. Choose *Patch Server*.  
This starts the patch wizard.
3. Choose *Next* to continue.
4. Browse to a valid SAP patch file and choose *Next* to continue.

NWSAPSetupAdmin.exe now validates the patch, which takes a few minutes.

If the patch is valid, you are prompted to proceed with it.



To ensure that the installation server is not in use, the patch now closes NWSAPSetupAdmin.exe before continuing. It restarts NWSAPSetupAdmin.exe after completing the patch.

5. Choose *Next* to continue.

NWUpdateInstServer.exe starts patching the installation server.

6. Follow the patch wizard, choosing *Next* as required.



Processing is recorded in the following file:

```
%ProgramFiles%\SAP\SapSetup\Logs\NWUpdateInstServer.log.
```

If there are errors, you see a link to an *Error Report*. Any errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SapSetup\Errors\
NWUpdateInstServerErrors_<CurrentDateTime>.xml.
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

At the end of the process, you see a message indicating that the patch was successful.

7. Choose *Finish*.

NWSAPSetupAdmin.exe now restarts.

If you have patched a SAP front-end component (for example, SAP GUI for Windows 7.30), the version number of this component in NWSAPSetupAdmin.exe increases after applying the patch.

## 3.8 Configuring Local Security Handling

### Use

Local security handling (LSH) lets users on the network deploy SAP front-end components on their front ends using NetWeaver SAPSetup without requiring administrative privileges on each front end.

### Prerequisites

- You have [set up an installation server \[page 20\]](#).
- To enable front ends running Windows Vista to use LSH, you need to change the default firewall setting to enable remote service management as follows:
  - a. Open the control panel and choose *Windows Firewall* → *Change Settings*.
  - b. On tab page *Exceptions*, select *Remote Service Management* and choose *OK*.

### Procedure

1. Start NWSAPSetupAdmin.exe from the SETUP folder of the installation server.
2. Choose *Services* and select *Configure local security handling*.  
The LSH configuration wizard starts.
3. Choose *Next*.

The wizard prompts you for the credentials of an account that has administrative privileges for all front ends on the network.

4. Enter the account name with domain qualifiers.
5. Choose *Verify*.

Verification only confirms that the password supplied matches its repetition. Verification does **not** validate credentials.

6. Choose *Next*.
7. Enter details for the installation service (IS) account, verify, and choose *Next* to complete the process.

The wizard displays the success state in starting the distribution service and the status bar at the bottom of `NWSAPSetupAdmin.exe` displays the service state as *Active*.

8. Test the functioning of the LSH feature by starting `NWSAPSetup.exe` from this installation server on a front end where the logged-on user has ordinary user privileges (that is, the user does not have administrative privileges).

### Result

If the front-end installer starts successfully and is able to install components available on the installation server, the configuration is successful.

If not, you need to reconfigure LSH.

## 3.9 Configuring SAP Automatic Workstation Update

### Use

The SAP Automatic Workstation Update works only when installed on the workstation. Whenever the installation server is patched, or the packages installed are updated, this service will update the workstation(s) and reboot them if necessary. The workstation updater works in two modes - one in the presence of a logged-on user and another in his or her absence:

- When a user is logged on, the user is informed of update availability and the update happens on the user's assent. The user is also informed if a reboot is necessary and the reboot is also only executed on the user's assent.
- If no user is logged on, the update is done automatically and the reboot (if necessary) is done automatically, too.



This service updates itself, when a patch of automatic workstation update is available.

### Prerequisites

The workstation side needs a network connection to the installation source for any update to be possible.

On the installation server side, the following prerequisites must be met:

1. The installation server should be hosted on a machine that can work as a file-server and serve numerous network sessions.
2. Windows Server 2003 (or equivalent) is recommended as the installation server operating system with the following 'Local Security Policy':
  - "Accounts: Guest account status" – Enabled.

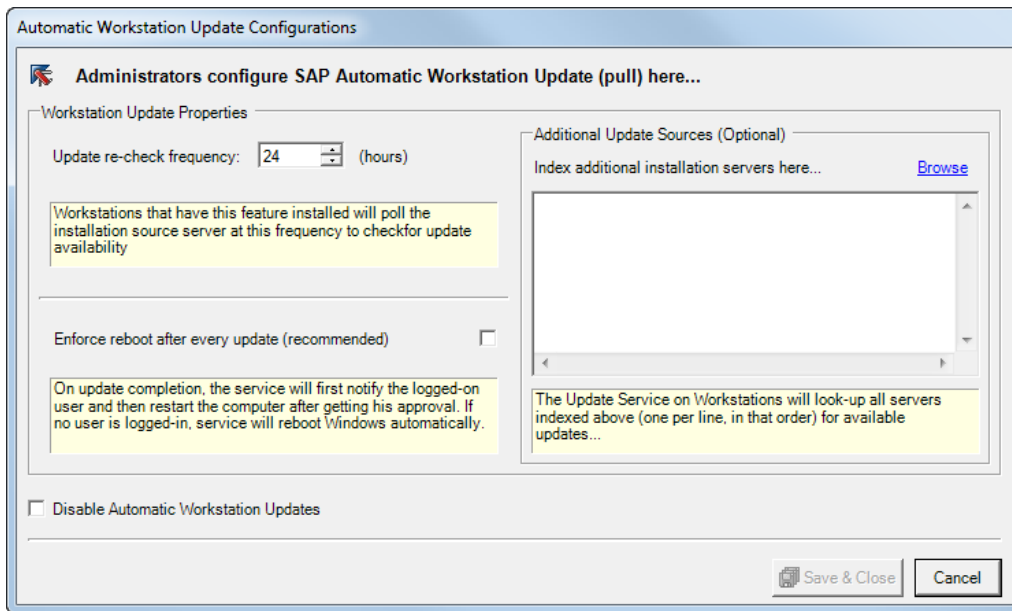
- “Network Access: Let Everyone permissions apply to anonymous users” - Enabled.
3. The installation server should be created (and hence configured) using `NWCreateInstServer.exe`.

## Procedure

In order to configure automatic workstation update, proceed as follows:

1. Open the administration tool `NWSapSetupAdmin.exe`.
2. Choose *Services* -> *Configure automatic update*.

The screen *Automatic Workstation Update Configurations* appears as shown in the following picture:



You have now several options:

- a. Update re-check frequency
 

The workstations that will have this feature installed, will poll the installation server at this interval to check for update availability. The default is 24 hours.
  - b. Enforce reboot after every update
 

When this flag is not set, the user is asked to reboot only if it is required to complete the deployment process. When the flag is set, a reboot is enforced, which means that the user is always asked to reboot.
  - c. Additional Update Sources (optional)
 

You can index additional servers. The update service will then look up the indexed servers per line in the given order for available updates.
3. Save your entries and close the program.
 

To make the automatic workstation update service available on workstations, you should create a package using `NWSapSetupAdmin.exe` on the installation server. This package should consist of SAP GUI for Windows and SAP Automatic Workstation Update. Once automatic workstation update is installed, then the following programs will run on the workstation in the background:  
`NWSAPSetupUserNotificationTool.exe` and  
`NWSAPAutoWorkstationUpdateService.exe`.



The front-end side will query the last 10 installation sources that are network paths.

### Result

You have configured the SAP Automatic Workstation Update and made it available on the workstations.

To disable the service, activate the option *Disable Automatic Workstation Update* in the configuration tool on the installation server (see picture above). This configuration change is propagated as an update to the workstations at the time of the next update check.



Once disabled, this action cannot be undone until the Automatic Workstation Update Service is reinstalled.

## 3.10 Controlling Remote Workstations

### Use

The remote workstation control functionality helps you to remotely access and control workstations on which you have administration privileges.

### Prerequisites

- Since this functionality uses the Windows Management Instrumentation (WMI) service, WMI has to be enabled.
- The firewall should be configured, so that WMI access is not blocked.
- You need to be an administrator on the workstation you want to access. This means, you should have either domain administrator privileges or local administrator rights for the corresponding machine.

### Procedure

In order to control workstations remotely, proceed as follows:

1. Open the administration tool `NWSapSetupAdmin.exe`.
2. Choose *Remote*.

You have now several options:

- a. Collect remote log files

With this option, you can collect log files from remote workstations. For this, you just have to enter the workstation name. In case you want to collect log files from several machines, you have to separate the different names by a comma.



Concerning the section *Optional - Administrative Credentials*: You need to supply administrative credentials for the workstation only if you are not running this application using the same credentials. For example, if you are domain administrator and the workstation is not part of your domain; however, you have local administration rights for the machine. Then you would enter your local administration credentials here. This data will not be saved.

Finally, you choose *Collect* to collect the log files from the remote workstations. If you want to stop the collection process, just press *Abort*. When the file collection is finished, Windows Explorer opens automatically the corresponding folder under `%temp%\SAPRemoteWksta\`.

- d. Execute processes remotely

With this option, you execute processes on a remote workstation. You just have to enter the workstation name as well as the application name in the appropriate field. Also, you can supply the application with the appropriate command line parameter, for example: `c:\program files\sap\sapsetup\setup\newsapsetup.exe /uninstall /all /silent`. Then choose *Execute* to run the process on the remote machine.



Start only non-interactive processes with this feature, because WMI will not allow the application started remotely to interact with the user.

To get a list of running processes, use option *Display Running Processes* (for details see also paragraph 'Enumerate remote processes' below).

e. Enumerate remote processes

With this option, you get a list of processes running on a remote workstation. Just enter the workstation name and choose *Display*. If you want to terminate a process, select the process and choose *Terminate*.



Be careful with the *Terminate* option, because the user may lose unsaved data.

## Troubleshooting

If you encounter problems with the WMI feature, diagnose WMI connectivity to a remote workstation using the Microsoft tool `wbemtest.exe`. Note, that you have to supply the connection namespace as `\\WorkstationName\root\cimv2`.

## Delegation

In order to start an installation on a remote workstation that is located on an installation server, delegation is required to be activated for the client machine(s) in question. Please, refer to the Microsoft TechNet article at <http://technet.microsoft.com/en-us/library/ee692772.aspx>, question 10 for further details.

# 4. Installation Process

## Purpose

This section provides information about the steps that you have to perform to install your SAP front end.

## Prerequisites

You have completed [planning \[page 15\]](#) and [preparation \[page 19\]](#) before you start the installation.



In the event of errors, consult the [log files \[page 47\]](#) before creating a problem message.

If required, create a problem message in BC-FES-INS and attach these files to the message.

## Process Flow

1. You [perform the installation \[page 36\]](#).
2. You [perform the required software updates \[page 43\]](#).

## 4.1 Installation of the SAP Front End

### Purpose

This section describes how you install the SAP front-end software.

### Process Flow

You install components on your front end centrally [from an installation server \[page 36\]](#) or locally [from a distribution medium \[page 41\]](#) such as DVD.

### 4.1.1 Installing Components from an Installation Server

#### Use

This procedure tells you how to install **components** from an installation server.

More information on how to install **packages** from an installation server:

- [Installing Packages Configured by the Administrator \[page 38\]](#)
- [Installing Packages Using the Logon Script \[page 40\]](#)

#### Prerequisites

- You have already [set up an installation server \[page 20\]](#).
- The user logged on to the front end must have local administrative privileges.
- If the user does **not** have local administrative privileges, make sure that [local security handling is correctly configured \[page 31\]](#) on the installation server.

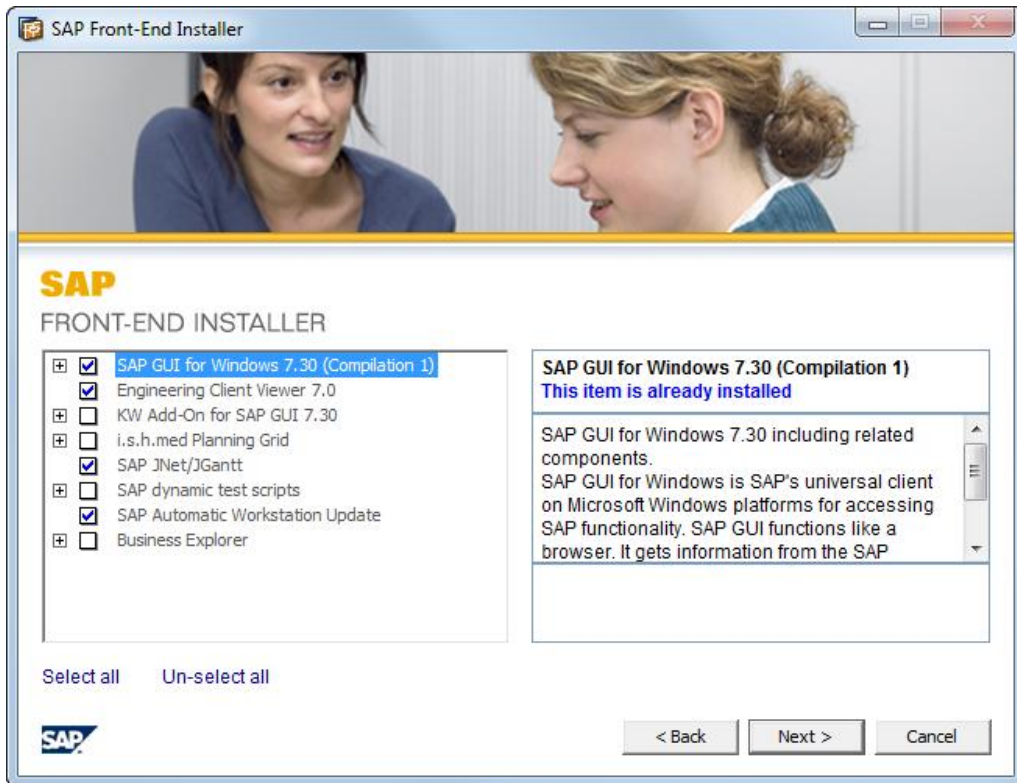
#### Procedure

1. Start `NWSAPSetup.exe` from the `SETUP` folder on the installation server.

The SAPSetup installation wizard appears.

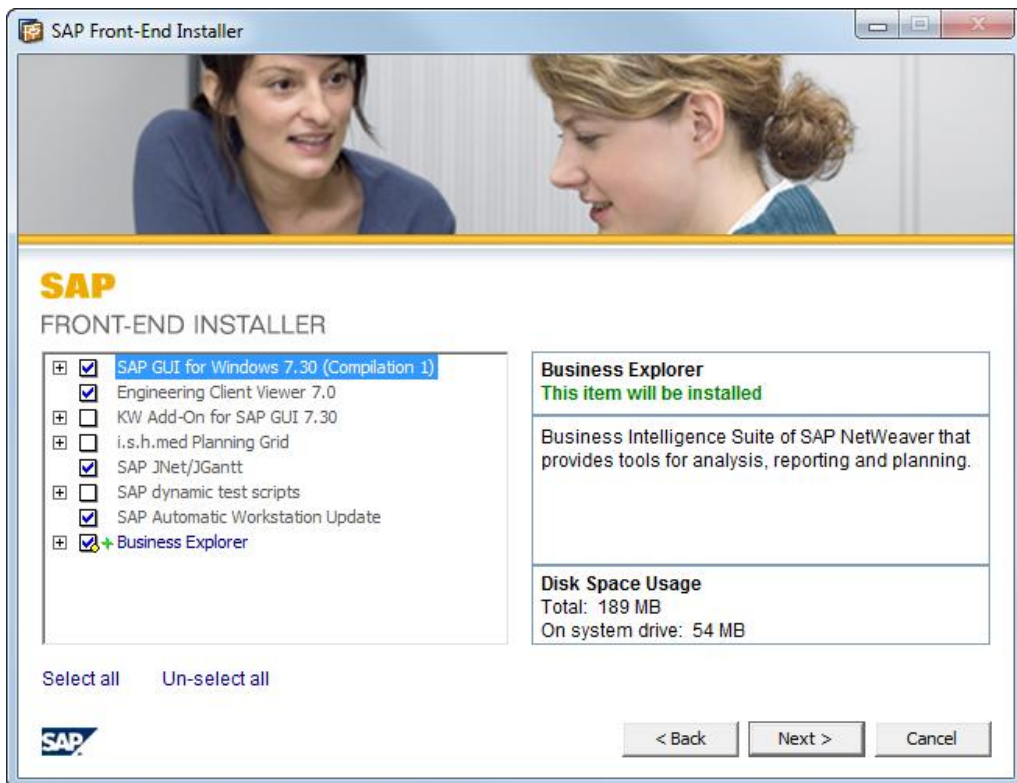
2. Choose *Next*.

The product list is displayed. Products that have already been installed are pre-selected as shown in the following picture:

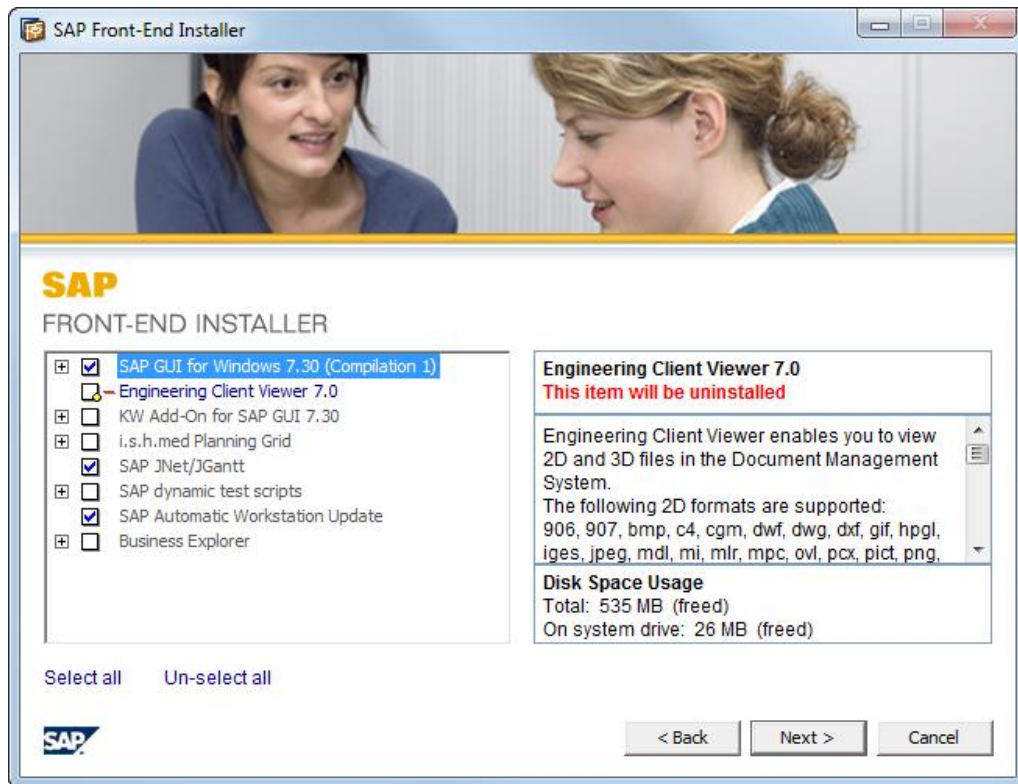


3. Select the products or SAP front-end components that you want to install or deselect the ones you want to remove.

Yellow dots indicate changes in the selection list. The green plus next to a product name indicates that this product will be installed when the user installs the package on his or her workstation.



If you deselect a product in this list that has already been installed, a red minus appears to indicate that this product is marked for uninstallation.



4. After (de)selection, choose *Next*.

The installation wizard might prompt you to enter or change information to customize the installation of the selected products, such as the installation folder.



The default path for installing SAP GUI for Windows is `C:\%ProgramFiles%\SAP\FrontEnd`, but you can change this if required.

5. If necessary, change this information and choose *Next* to start the installation.

The installation starts and a progress screen appears.



Processing is recorded in the following file:

```
%ProgramFiles%\SAP\SAPetup\Logs\NWSAPSetup.log
```

If there are errors, you see a link to an *Error Report*. Errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SAPSetup\Errors\SAPSetupErrors_<DateTime>.xml
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

When the update is complete, you see a confirmation screen. Your SAP front-end component is now successfully configured and ready to use.

#### 4.1.1.1 Installing Packages Configured by the Administrator

##### Use

This procedure lets you install or remove packages on your front end that have been configured by the administrator on the installation server.



Be careful when removing packages. Make sure you do not mistakenly remove shared components that are used by other packages you want to keep.

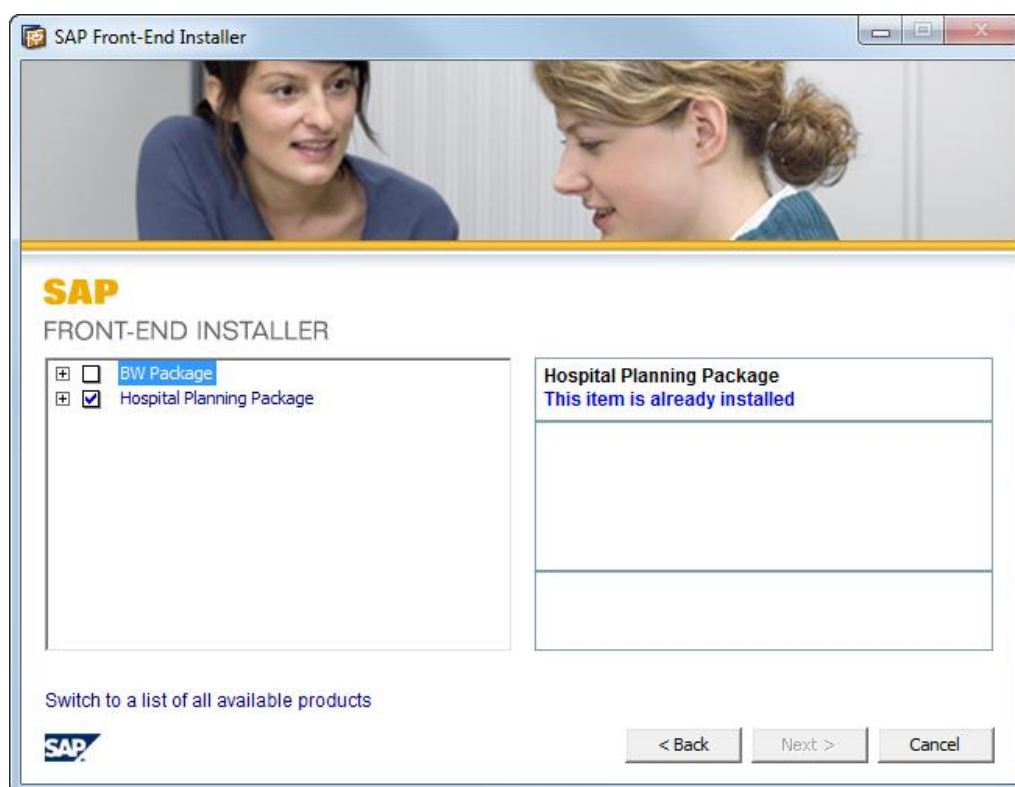
### Prerequisites

- You have already [set up an installation server \[page 20\]](#).
- The user logged on to the front end must have local administrative privileges.
- If the user does **not** have local administrative privileges, make sure that [local security handling is correctly configured \[page 31\]](#) on the installation server.
- The administrator has created packages using NWSAPSetupAdmin for deployment on the front end.

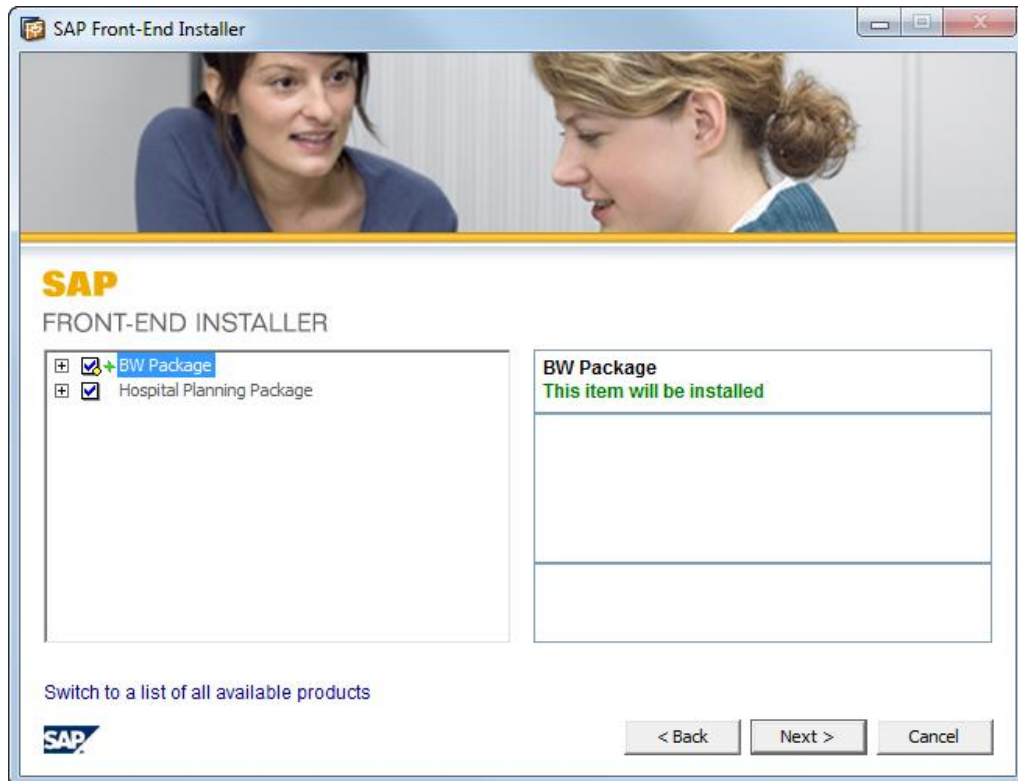
### Procedure

1. Start NWSAPSetup.exe /package from the SETUP folder of the installation server or distribution medium.

A list of the packages that the user is authorized to install or uninstall is displayed. Packages that have already been installed are pre-selected. In the following case, the package Hospital Planning Package is already installed on the workstation.



2. Select the components or packages that you want to install or deselect the ones you want to remove.



In this case, the BW Package has been selected for installation. The yellow dot indicates a change in the selection list. The green plus next to the product name indicates that this object will be installed when the user installs the package on his or her workstation. If you deselected a package, you would see a red minus next to the object selected for de-installation.

3. After (de)selection, choose *Next*.

NWSAPSetup now processes the packages and displays the completion status when finished.



If errors occur during the installation, SAPSetup displays a link to a document in which the errors have been logged. Contact the administrator of the installation server or the network and pass on the information given in this document.

#### 4.1.1.2 Installing Packages Using the Logon Script

##### Use

Since the front-end software is normally installed on a large number of computers, NWSAPSetup lets you automate this task.

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.

##### Prerequisites

Make sure that the front-end software (especially SAP GUI) is not running when you perform the procedure below because program files in use might cause a reboot.

## Procedure

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

```
\\<server>\<shared folder>\setup\NWSAPSetup.exe /package:"<package command-line name>" /silent
```



You can also call `NWSAPSetupAdmin.exe` in the same way to perform this task.

When you start this command for the first time on a computer, `NWSAPSetup` installs the specified package.

For a list of options, see [Command Line Parameters \[page 47\]](#).

## 4.1.2 Installing Components Locally from a Distribution Medium

### Use

This procedure installs SAP front-end software components on a single computer from a distribution medium such as a DVD.

### Prerequisites

The user logged on to the front end must have local administrative privileges.

### Procedure

1. In folder `Gui\Windows\Win32` on the *SAP NetWeaver Presentation DVD*, start `SAPGUISetup.exe`.

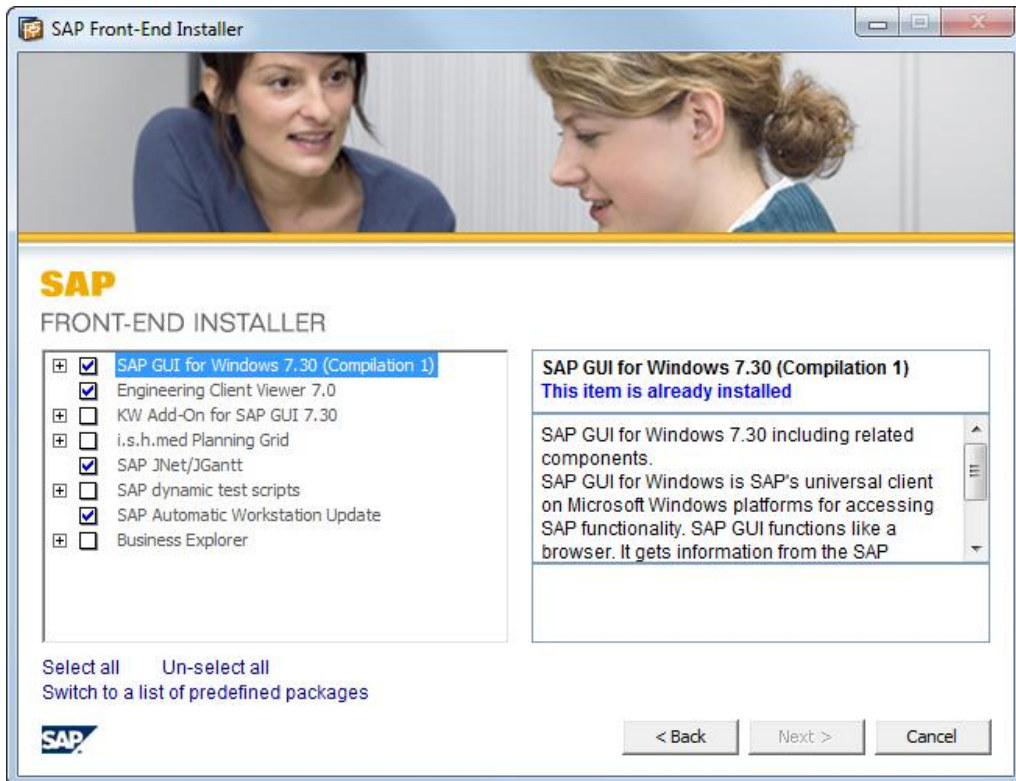
The `SAPSetup` installation wizard appears, showing you a list of components that are part of the product SAP GUI for Windows 7.30.



To view and optionally install **all** products – that is, SAP front-end components available on the installation medium including SAP GUI and others (the *SAP NetWeaver Presentation DVD* contains SAP GUI for Windows and SAP BI front end as well as other components that can be integrated on an individual basis) – use `SetUpAll.exe`.

2. Choose *Next*.

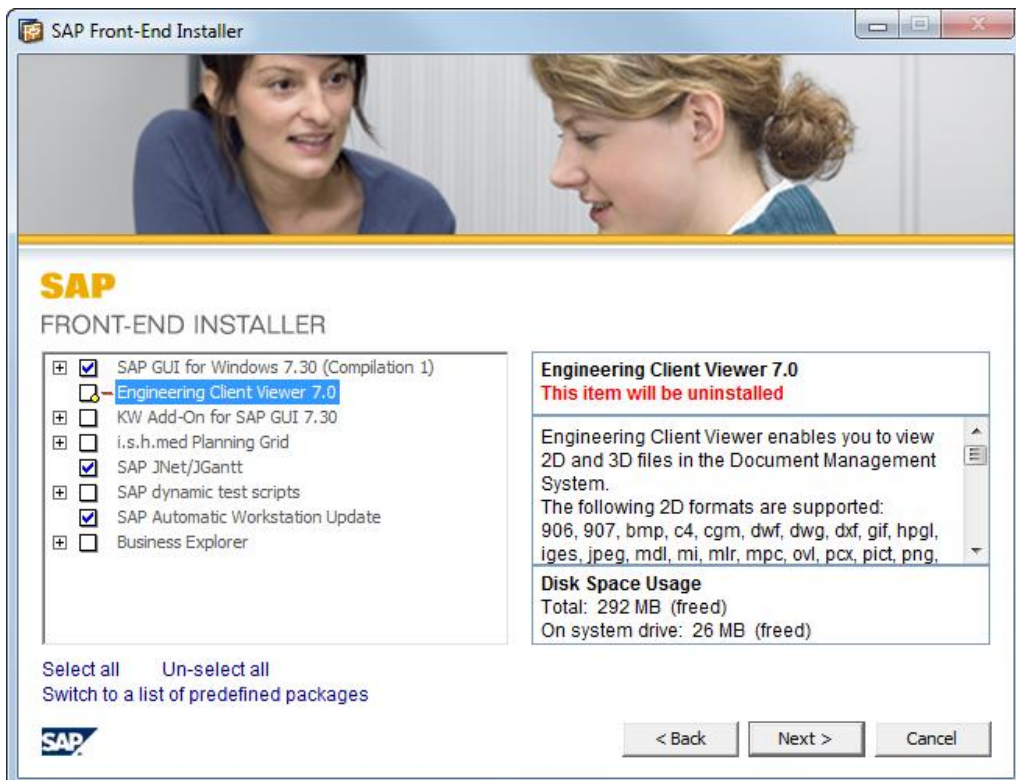
A list with (de)selectable products is displayed:



Products that have already been installed are pre-selected.

3. Select the products or SAP front-end components that you want to install or deselect the ones you want to remove.

Changes in the selection list are indicated by a yellow dot. If you select a product for installation, you will see a green plus next to the product to install. If you select a product for de-installation, a red minus appears as shown in the following picture:



4. Choose *Next*.

The installation wizard might prompt you to enter or change information to customize the installation of the selected products, such as the installation folder.



The default path for installing SAP GUI for Windows is `C:\%ProgramFiles%\SAP\FrontEnd`, but you can change this if required.

5. If necessary, change this information and choose *Next* to start the installation.

The installation starts and you see a progress screen.



Processing is recorded in the following file:

```
%ProgramFiles%\SAP\SAPetup\Logs\NWSAPSetup.log
```

If there are errors, you see a link to an *Error Report*. Errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SAPSetup\Errors\SAPSetupErrors_<DateTime>.xml
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

When the update is complete, you see a confirmation screen. Your SAP front-end component is now successfully configured and ready to use.

## 4.2 Update of the SAP Front End

### Purpose

This section describes how you update the installed front ends when a newer version is available as a patch either on the installation server or on a distribution medium (such as a DVD).



Patches for SAP GUI for Windows do **not** contain the complete set of files required for SAP GUI for Windows. Therefore, you cannot upgrade to a new release by just applying a patch for the new release to your existing installation.

Instead you have to start the installation of the new release using the SAP GUI version delivered on the *SAP NetWeaver Presentation DVD*. Afterwards you can use patches to update the new SAP GUI for Windows release.

### Process Flow

You can update the SAP front end in one of the following ways:

[Updating the Front End from an Installation Server \[page 43\]](#)

[Patching a Standalone Front End \[page 43\]](#)

### 4.2.1 Updating the Front End from an Installation Server


#### Use

You can update the front end from an installation server.

#### Procedure

Updating the front end basically involves the same steps as an installation, see section [Installation of the SAP Front End from an Installation Server \[page 36\]](#).

You have the possibility to have the update run unattendedly or automatically:

- For unattended update, use the following command line:  
`\\<server_path>\setup\NWSAPSETUP.exe /UPDATE /silent`  
  
To update a specific package or product, add:  
`/package="package command-line name"`  
Or  
`/product="product command-line name"`  
You will find the command-line name of the package or product in the administrative console `NWSAPSetupAdmin.exe`.
- For automatic update, you can use the SAP Automatic Workstation Update. Whenever the installation server is patched, or the packages installed are updated, this service will update the workstation(s) and reboot them if necessary. The workstation updater works in two modes - one in the presence of a logged-on user and another in his or her absence
  - When a user is logged on, the user is informed of update availability and the update happens on the user's assent. The user is also informed if a reboot is necessary and the reboot is also only executed on the user's assent.
  - If no user is logged on, the update is done automatically and the reboot (if necessary) is done automatically, too.

The SAP Automatic Workstation Update is not SAP GUI-specific, it works with all components available on the installation server. For details, see section 3.9 *Configuring SAP Automatic Workstation Update*.

## Result

Depending on the chosen update method, the front end is updated with or without user interaction. In case of a user-interactive update, the user just has to choose *Next* to start the front-end update.

### 4.2.2 Patching a Standalone Front End

You can update a standalone front end by running a patch on it. Updating involves the same steps as an installation.

More information: [Installation of the SAP Front End \[page 36\]](#)



We recommend [updating with an installation server \[page 43\]](#) instead of updating individual front ends by running a patch.

## 5. Additional Information

The following sections are **optional** and provide additional information:

- [Removing an Installation Server \[page 45\]](#)
- [Uninstalling the SAP Front End \[page 45\]](#)

- [FAQs \[page 46\]](#)
- [Viewing Log and Error Files \[page 47\]](#)
- [Command-Line Parameters \[page 47\]](#)
- [Component List \[page 49\]](#)

## 5.1 Removing an Installation Server

### Use

You can remove an installation server if it is no longer needed.

### Procedure

1. If [local security handling \[page 31\]](#) is configured, start `NWSAPSetupAdmin.exe` and stop it using the *Services* menu.
2. First unshare the folder so that the installation server is not available to front ends on the network.
3. Delete the folder from the file system using the Windows explorer.

## 5.2 Uninstalling the SAP Front End

### Prerequisites

Make sure that SAP GUI for Windows applications are not running at uninstall time. If an application is running during the uninstallation, the user is prompted to reboot afterwards.

### Procedure

1. Choose *Start* → *Settings* → *Control Panel* → *Add or Remove Programs*.  
A list of the installed applications appears.
2. Select *SAP GUI for Windows 730*.
3. Choose *Remove*.
4. Choose *Next*.

### Result

SAP GUI for Windows is uninstalled and a log file is generated.



To perform silent, unattended uninstallation, enter the following commands:

```
NWSAPSetup.exe /Product="<product name>" /Silent /Uninstall  
for uninstalling a certain product, for example SAPGUI710. Note: To ensure the  
upgrade possibility, the product name of the SAP GUI for Windows 7.30 is still  
SAPGUI710.
```

```
NWSAPSetup.exe /all /Silent /Uninstall  
for uninstalling all SAP components installed by SAPSetup without having to call  
specific command-lines for specific products
```

You find more information on this in section 5.5 *Command Line Parameters*.

## 5.3 FAQs

You can find FAQs for the server and the client part of NetWeaver SAP Setup either from the DVD, from the installation directory, or in the system documentation of the NetWeaver SAPSetup Server Installation Administration Tool (`NWSAPSetup.exe`) choosing *Help* → *SAP Installation Server Help*.

The FAQs for the server can be found under *SAP Installation Server Help -> Troubleshooting and FAQs*.

The FAQs for the client can be found under *SAP Front-End Installer Help -> Troubleshooting and FAQs*.

## 5.4 Diagnosing Front-End Software Installations using NWCheckWorkstation

To diagnose a workstation containing installed SAP components, start `NWCheckWorkstation.exe` from either the `SETUP` directory of the Installation Server or from the `SETUP` directory of the workstation (`%PROGRAMFILES%\SAP\SAPSetup\Setup`), and follow the wizard. You will be presented with a report on completion of the check process.

`NWCheckWorkstation` verifies the installation of SAP front-end components by checking for discrepancies in files, services, registry-keys, and other artifacts deployed using `NWSAPSetup`.

The workstation check tool will collect critical installation files and compress them into a cabinet archive. This CAB-File will be presented to the user after the completion of the process, and can be supplied to SAP support staff when reporting installation issues - for quicker diagnosis.

## 5.5 Repairing Front-End Software Installations using NWSAPSetup

To repair a workstation containing installed SAP components, start `NWSAPSetup.exe` from the `SETUP` directory of the Installation Server. `NWSAPSetup.exe` has to be called from the command line with `/repair`.

`NWSAPSetup /repair` checks for discrepancies in files, services, registry-keys, and other artifacts deployed using `NWSAPSetup` and repairs the installation of SAP front-end components based on the outcome of these checks.



Note that the repair process includes an update of all Front End components as described in chapter 4.2.1. If the version of a component on the installation server is higher than of the component installed on the workstation, then this component will be updated.

When the repair process starts, a progress screen appears. Processing is recorded in the following file: `%ProgramFiles%\SAP\SAPSetup\Logs\NWSAPSetup.log`

If there are errors, you see a link to an *Error Report*. Errors are recorded in the following file, which you can view using your normal web browser:

```
%ProgramFiles%\SAP\SAPSetup\Errors\SAPSetupErrors_<DateTime>.xml
```

If you have a problem, create a problem message on component BC-FES-INS and attach these files to the message.

When the repair process is complete, you see a confirmation screen. Your SAP front-end components are now successfully repaired and ready to use.

## 5.6 Viewing Log and Error Files

### Log Files

All the installation tools described in this document maintain an activity record in log files that you can find here:

```
%ProgramFiles%\SAP\SAPSetup\Logs
```

Each tool stores the last ten log files.

### Error Files

Errors are stored in an XML format in files that you can view in any browser and you can find in the following folder:

```
%ProgramFiles%\SAP\SAPSetup\Errors
```

If you have a problem, create a problem message in BC-FES-INS and attach the relevant log files to the message.

### Log and Error Files for Each Tool


Tool	Log File	Error File
NWCreateInstServer.exe	NWCreateInstServer.log	NwCreateInstServerErrors_<DateTime>.xml
NWUpdateInstServer.exe	NWUpdateInstServer.log	NwUpdateInstServerErrors_<DateTime>.xml
NWSAPSetupAdmin.exe	NwSAPSetupAdmin.log	NWSAPSetupAdminErrors_<DateTime>.xml
NWSAPSetup.exe	NWSAPSetup.log	SAPSetupErrors_<DateTime>.xml


## 5.7 Command-Line Parameters

In this section, you find two tables with command line parameters:

- for installation server creation and update
- for frontend installation and update

### Installation Server Creation and Update Command Line Parameters

NWCreateInstServer/ NWUpateInstServer Parameter	Description
/Dest	Use this parameter to supply the destination folder where you wish to create your installation server. Sample: /Dest="C:\MyInstServerPath"
/noDlg	Shows only the progress dialog Displays no other user interface. You can use it instead of /silent, if you wish to see progress. 



	If using <code>/noDlg</code> , you need to supply the destination server path via <code>/Dest</code> .
<code>/silent</code>	Displays no user interface – not even progress  If using <code>/silent</code> , you need to supply the destination server path via <code>/Dest</code> .
<code>/DontConfigureServerPath</code>	Disables the automatic installation source folder configuration (network share creation and null-session accessibility).





You can use command-line parameters to automatically replicate your (master) installation server across multiple locations.

### Front-End Installation and Update Command Line Parameters

You can call `NWSAPSetup.exe` with the command-line parameters listed below.

NWSAPSetup Parameter	Description
<code>/package:["&lt;package command-line name&gt;"] [/silent] [/uninstall] [/update]</code>	Displays the wizard that lets you choose packages  You <b>cannot</b> switch to <i>Product View</i> .
<code>/Product:["&lt;product command-line name&gt;"] [/uninstall] [/silent] [/update]</code>	<ul style="list-style-type: none"> <li>If no product name is supplied, this command line parameter enables a view of available products and products that have already been installed.</li> <li>If a product name is supplied, the installer displays information about the supplied product only.</li> </ul>  You <b>cannot</b> switch to <i>Package View</i> .
<code>/ForceWindowsRestart</code>	Restarts the workstation automatically when the installation is done. Use in combination with package and product after <code>/silent</code> or <code>/nodlg</code> . Example: <pre>&lt;installation source&gt;\setup\nwsapsetup.exe /silent /product="SAPGUI710" /ForceWindowsRestart</pre>
<code>/noDlg</code>	Shows only the progress dialog Displays no other user interface. You can use it instead of <code>/silent</code> .

	 <p>If using <code>/noDlg</code>, you need to specify a product name or package name.</p>
<code>/silent</code>	<p>Displays no user interface – not even progress</p>  <p>If using <code>/silent</code>, you need to specify a product name or package name.</p>
<code>/SMS:["&lt;package command-line name&gt;"] [/noDlg] [/silent] [/uninstall]</code>	<p>Creates a status file (Package Name.MIF) in the %TEMP% folder that indicates the success or failure of the package installation, or uninstallation.</p> <p>Typically used by software distribution systems such as SMS to determine the success or failure of a remote installation (advertised package installation).</p>
<code>/uninstall</code>	<p>Uninstalls components that belong to a specified product or a package</p> <p>This command-line parameter is valid only together with one of the following:</p> <p><code>/Product="Product Command-Line Name"</code>  <code>/Package="Package Command-Line Name"</code>  <code>/all</code> for uninstalling all SAP components installed by SAPSetup; works only when supplied with <code>/nodlg</code> or <code>/silent</code></p>
<code>/update</code>	<p>Updates components present in a newer version on the installation server due to a patch.</p> <p>To update a specific product or package, supply an additional parameter:</p> <p><code>/Product="Product Command-Line Name"</code>  or  <code>/Package="Package Command-Line Name"</code></p>

You can install multiple products using a single command with the + operator, as shown in the following examples:



```
\\ServerName\ShareName\Setup\NwSAPSetup.exe
/Product="SAPGUI710+SAPBI" /NoDlg
```

To uninstall multiple products, append the `/uninstall` command-line parameter.

## 5.8 Return Codes

If you start `NwSapSetup.exe` from a batch file, the return code can be caught by the `%ErrorLevel%` environment variable.

 Example:

```
<Path to your installation source>\setup\NwSAPsetup.exe
/package="<Name of your Installation package>" /silent
echo %ErrorLevel%
```

The following table gives an overview of the return codes for `NwSapSetup.exe` and their descriptions:

Return Codes	Description
0	Process ended without any errors detected.
48	General Failure
67	Installation is canceled by the user.
68	Invalid patch
69	Installation engine registration failed.
70	Invalid XML Files
129	Reboot is recommended.
130	Reboot was forced.
144	Error report has been created.
145	Error report has been created and reboot is recommended.
146	Error report has been created and reboot is forced.



In case of return codes 144-146, have a look at the error and log file for `NwSapSetup.exe` as described in section [Viewing Log and Error Files](#).

## 5.9 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 Suite	SAP GUI for Windows along with all essential sub-components
R/3 Add-On	Front-end add-on for SAP R/3 Enterprise This package contains application extensions that are 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
Legacy Components	Components for the usage with older SAP releases (SAP 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.
CRM Add-On	Front-end add-on for SAP Customer Relationship Management (CRM)
KW Add-On	Front-end add-on of SAP's Knowledge Management solution that includes all SAP training courses and all SAP documentation
SCM Add-On	Front-end add-on for of SAP Supply Chain Management (SCM)
SEM Add-On	Front-end add-on for SAP Strategic Enterprise Management (SEM)
i.s.h.med Planning Grid	The i.s.h.med Planning Grid is the graphics-based tool for planning appointments in the clinical system i.s.h.med. This component contains the current planning grid version as of SAP ECC 6.0, Industry Extension Healthcare, Enhancement Package 4. Its installation requires the Java Runtime Environment to be installed on the machine. For more information, see SAP Note 1013957 and the i.s.h.med Homepage <a href="http://www.ishmed.com">www.ishmed.com</a> where you can also download planning grid versions of earlier Releases.
SAP JNet/JGantt	Jnet/JGantt is an editor for network graphics that can be used by any application to integrate different forms of graphic representations.  This component requires a Java Runtime Environment to be installed on the client machine.
SAP Automatic Workstation Update	The automatic workstation update service is a new installer feature shipped as of 7.20 compilation 2. It works only when installed on the workstation. Whenever the installation server is patched, or the packages installed are updated, this service will update the workstation(s) and reboot them if necessary. The workstation updater works in two modes - one in the presence of a logged-on user and another in his absence: <ul style="list-style-type: none"> <li>• When a user is logged on, the user is informed of update availability and the update happens on the user's assent. The user is also informed if a reboot is necessary and the reboot is also only executed on the user's assent.</li> <li>• If no user is logged on, the update is done automatically and the reboot (if necessary) is done automatically, too.</li> </ul>
Business Explorer	You can perform a local installation of the Business Explorer by running <code>SAPBISetup.exe</code> from the <code>PRES1\GUI\WINDOWS\WIN32</code> subfolder of the <i>SAP NetWeaver Presentation DVD</i> . You can also import "Business Explorer" to an installation server and define your own packages to include this product.  The Business Explorer tree node also contains the OLE DB for OLAP clients to connect to SAP NetWeaver Business Intelligence (BI).
ECL Viewer	Engineering Client Viewer enables you to view 2D and 3D files in the Document Management System. <ul style="list-style-type: none"> <li>• The following 2D formats are supported: 906, 907, bmp, c4, cgm, dwf, dwg, dxf, gif, hpgl, iges, jpeg, mdl, mi, mlr, mpc, ovl, pcx, pict, png, ps, ras, rvf, tg4, tiff, tlc, triff, txt</li> </ul>

	<ul style="list-style-type: none"> <li>The following 3D formats are supported: JT, STL, VRML 1.0, for ECL versions lower than 6.0 refer to Note 381777 to use VRML 2.0</li> <li>ECL Viewer Release 6.0 supports additionally the following formats: VRML 2.0, PDF with redlining, AutoCAD 2007 (DWG), DGN, 902</li> </ul> <p>The viewer provides functions such as Redlining/Markup, Comparing, Measurement, Stamps and Watermarks, Rotating, Zooming, Printing. Additionally, Dynamic Assembly Viewing, and Cross Sectioning are supported for 3D files.</p>
--	---



### Discontinued Products

- BW 3.5 Add-On:**



BW 3.5 Add-On has been removed. For details, see notes 1652771 and 1652772.

- SAPPhone Server:**

The SAPPhone Server and the SAPPhone Status Update control are no longer delivered together with SAP GUI for Windows 7.30. For more information see SAP note 171201.

- PS:Export Interfaces:**


The component *PS: Export Interfaces* is not delivered anymore with SAP GUI.

- Balanced scorecard and Sales Planning:**

The SEM components *Balanced scorecard* as well as *Sales Planning* are not part of the delivery of SAP GUI for Windows 7.30. For more information, see SAP Note 1665318.

## List of Available Components

### SAP GUI Suite

Component	Description
SAP GUI	SAP graphical front end with starter application SAP Logon Pad The user can only display preconfigured connection information for SAP systems provided by the administrator (see documentation for details).
SAP Logon Pad	Desktop and <i>Start</i> menu shortcuts for SAP Logon Pad  The functionality of SAP Logon Pad is fully contained in SAP Logon. Therefore these shortcuts are <b>only</b> created if SAP Logon is not selected.
SAP Logon	Extended starter application SAP Logon with desktop and <i>Start</i> menu shortcuts The user can display and modify connection information for SAP systems.

SAP GUI Scripting	SAP GUI scripting interface  More information: SAP_GUI_Scripting_API.pdf from the PRES1/DOCU folder on the <i>SAP NetWeaver Presentation DVD</i>
GUI XT	SAP GUI extensions for client side customizing of SAP Dynpro screens
Unicode RFC Libraries	Unicode RFC libraries for software developers  Supports Unicode and non-Unicode communication partners  Accessible from Visual Basic through COM Interface

**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 an SAP system  Requires Microsoft Access 97
FI-LC: Remote Data Entry	Module FI: Data input and validation of reported financial data without a connection to an SAP system  Requires Microsoft Access 97
Interactive Excel	Module FI or EC: Add-on to Microsoft Excel for creating reports in Microsoft Excel using data from FI-LC or EC-CS consolidation  Excel sheets can be filled with data from the SAP system 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 Microsoft Excel 97
EC-EIS: Microsoft Word Link	Module EC /Executive Information System  Transfer of report data to Microsoft Word. Requires Microsoft Word 97 or 2000
PD: Microsoft Excel Link	Module PT/ Shift Planning  Allows you to display the SAP duty roster data with Microsoft Excel. Requires Microsoft Excel
EH&S WWI	Module EH&S: Windows Word Processor Integration  Report tool for SAP PLM Environment, Health and Safety to generate reports such as material safety data sheets and labels  RTF Viewer required

**General Add-On**

Component	Description
Calendar Synchronization for Microsoft Outlook	Outlook client extension for the synchronization of SAPoffice calendar with the Outlook calendar  Requires Microsoft Outlook 98 or higher, but is <b>not</b> compatible with Microsoft Outlook 2010
Graphical Distribution Network	Display and maintenance of a distribution network inside a corporation



The components SAPphone Server and SAPphone Call Status Control have been removed from SAP GUI for Windows 7.30.

More information: **SAP Note 171201**



The component SAP (WEB) Console is not part of the delivery as of SAP GUI for Windows 7.20.


More information: **SAP Note 1017827**



Microsoft Outlook Integration is no longer supported and therefore has been removed from the *SAP NetWeaver Presentation DVD*.

More information: **SAP Note 627397**

### Legacy Components

Component	Description
Microsoft Word Link via RFC	Installation of Word connection for SAP R/3 3.x, and 4.0B Requires Microsoft Word 6, 95, 97, or 2000
Report Writer: Microsoft Excel Link	Import filter for Microsoft Excel: converts a file exported by Report Writer in Excel format (RPW format) into an Excel spreadsheet  Works with Excel 95, 97, or 2000   Used with SAP System Releases 3.1 to 4.5 only.

XXL List Viewer is no longer available on the *SAP NetWeaver Presentation DVD*.

More information: **SAP Note 526579**

### CRM Add-On

Component	Description
CRM Front End	Front-end add-on of SAP Customer Relationship Management (CRM)

### KW Add-On

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

	Requires Microsoft Internet Explorer 5 or higher
KW Viewer	Viewing tool to display training courses offline

**SAP dts Add-On**

Component	Description
SAP dynamic test scripts (SAP dts)	SAP dts helps you to accelerate the test process by easy automation of your end-to-end business process validations. The integrated platform gives you the unique ability to define, compose and execute test scenarios with minimal effort of creation and maintenance. In addition, the solution enables efficient test analysis. Please, note that you need Office 2003 Primary Interop Assemblies and .Net 2.0 to install DTS.

**SAP i.s.h.med Add-On**

Component	Description
i.s.h.med Planning Grid	The i.s.h.med Planning Grid is the graphics-based tool for planning appointments in the clinical system i.s.h.med. This component contains the current planning grid version as of SAP ECC 6.0, Industry Extension Healthcare, Enhancement Package 4. Its installation requires the Java Runtime Environment to be installed on the machine. For more information, see SAP Note 1013957 and the i.s.h.med Homepage <a href="http://www.ishmed.com">www.ishmed.com</a> where you can also download planning grid versions of earlier Releases.

**SCM Add-On**

Component	Description
SCM Front End	Front-end add-on of SAP Supply Chain Management (SCM)

**SEM Add-On**

Component	Description
Graphical Assignment	Graphical assignment tool



The components Balanced scorecard as well as Sales Planning are not part of the delivery of SAP GUI for Windows 7.30.

More information: **SAP Note 1665318**